



CHAPTER

2

Research & Development

Faculty of Arts & Humanities

CENTRE FOR SOUTH ASIAN STUDIES

- **Research & Development – An Overview**

- The Centre completed a series of near about 300 research publications comprising of Books, Journals, Research Aid Series, Monographs and Reports, etc. South Asian Studies (Bi-Annual Journal) is a regular and valuable publication of the Centre. The Centre has organized more than 110 Seminars on different topics of national and international importance. More than 185 dignitaries of national and international repute have also visited the Centre on different occasions.
- During the period from October 2012 to September 2013, the Centre has organized Fifteen seminars as well as one National Conference on “Dynamics of Pakistan Politics: Pol. Con. Conference” in collaboration with Department of Political Science, University of the Punjab, Lahore. The Centre has published five publications (2 books and 2 issues of its Bi-annual journal - South Asian Studies i.e. Vol.27 No.2 & Vol. 28, No.1).

- **Publications**

- Books:
 - Prof. Dr. Umbreen Javaid, Profiles of South Asian Studies, 2013.
 - Prof. Dr. Umbreen Javaid, Pakistan Fights Extremism & Terrorism, 2013.
 - Prof. Dr. Umbreen Javaid, South Asia in Perspective, 2013.
- Articles:

Prof. Dr. Umbreen Javaid

 - “The Mumbai Terror ‘2008’ and its Impact on the Indo-Pak Relations”, South Asian Studies, Vol.28, No.01, p.25-37, January-June 2013, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore

Ms. Naheed S. Goraya

 - “Post 2014-Afghanistan”, South Asian Studies, Vol.28, No.01, p.67-84, January-June 2013, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore

Mussarat Javaid Cheema

 - “International Community on Kargil Conflict”, South Asian Studies, Vol.28, No.01, p.85-96, January-June 2013, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore.



Prof. Dr. Umbreen Javaid

- 'US Foreign Policy Parameters towards Pakistan and India (2001-2007)' Dr. Umbreen Javaid and Qamar Fatima, Journal of Political Studies, Vol. 19, Issue 2, Winter 2012, (HEC recognized category "Z").

Ms. Naheed S. Goraya

- "Ethnic Factor in Afghanistan", Journal of Political Studies, Department of Political Science, University of the Punjab, Quaid-e-Azam Campus, Lahore, Vol.19, No.2 (Winter 2012)

Ms. Naheed S. Goraya

- "Understanding Terrorism and Ways to Route out", Journal of Political Studies, University of the Punjab, Lahore, Vol.20, No.01, (Summer) January-June, 2013.

Mr. Muhammad Sohail

- "Carvan-e-Islam in South Asia and Excellence of Iqbal", Ssfeeneh A Research Journal of Persian Language Literature and Culture, No, 1, p35-50, Winter 2012.

○ Book Review:

Prof. Dr. Umbreen Javaid

- "The Confrontation: Winning the War future Jihad", South Asian Studies, Vol.28, No.01, p.259-260, January-July 2013, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore

● **Conference**

- National Conference on "Dynamics of Pakistan Politics: Pol. Con. Conference" was held on 21.03.2013. The conference was organized by the Centre for South Asian Studies in collaboration with Department of Political Science, University of the Punjab, Lahore

● **Seminars**

- Drug Abuse Prevention & Role of Youth, held on 26.10.2012 at 12.00 p.m. The Seminar was held by Department of Political Science in collaboration with Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore. Students and teachers of both the departments attended the seminar.
- Pakistan's National Security Issues held on 08.11.2012 at 12 p.m. The seminar was held in collaboration with the Department of Political Science, University of the Punjab, Lahore. Mr. General (R) Ehsan ul Haq was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholar from the Centre as well as Department of Political Science.
- Human Rights in South Asia with Special Reference to Pakistan held on 22.11.2012 at 11:30 a.m. The seminar was held in collaboration with the Department of Political Science, University of the Punjab, Lahore. Mr. Muhammad Yousaf, Deputy Director, Human Rights Department,



Government of Punjab, Lahore, was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science.

- Realigning Options, Outlets and Opportunities for a Post-2014 Afghanistan held on 27.11.2012 at 12:00 p.m. The seminar was held in collaboration with the Department of Political Science, University of the Punjab, Lahore. Dr. Najam Abbas, Senior Fellow focusing on Central and South Asia, East West Institute, Belgium, was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science.
- Dismemberment of Pakistan: December 16, 1971 held on 18.12.2012 at 11:00 a.m. in the Auditorium of the Centre. Lt. Gen. Naseer Akhtar and Mian Mehboob Ahmed, Ex-Chief Justice, were the keynote speakers. Prof. Dr. Umbreen Javaid welcomed the speakers and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- Information Network village & Regional Development The seminar was held by the Centre for South Asian Studies in collaboration with the Department of Political Science, in the CSAS Hall, University of the Punjab, Lahore, on 29.01.2013 at 10.00 a.m. Prof. Dr. Jin Wan Seo was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- Research Methodology in APA (A one day workshop) held on 28.01.2013 at 11:00 a.m. in the Auditorium of the Centre. Prof. Dr. Khalid Mahmood from Department of Library and Information Science, University of the Punjab, Lahore, delivered lecture on the subject. The workshop was held in collaboration with the Department of Political Science. Prof. Dr. Umbreen Javaid, Director of the CSAS welcomed the M.Phil/Ph.D. scholars from the CSAS/Department of Political Science.
- Kashmir “Dastan-i-Jidojehad” The seminar was held by the Centre for South Asian Studies in collaboration with the Department of Political Science, in the CSAS Hall, University of the Punjab, Lahore, on 27.02.2013 at 11.00 a.m. Mr. Shamshad Ahmad Khan, Barrister Sultan Mehmood, Mr. Muhammad Yaseen Malik was the keynote speakers. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- Techniques of Application of Theory/Theories in Ph.D Thesis The seminar was held by the Centre for South Asian Studies in collaboration with the Department of Political Science, in the Al Razi Undergraduate Hall University of the Punjab, Lahore, on 28.02.2013 at 10.00 a.m. Dr. Muhammad Ahsan was the keynote speaker. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science for their participation in the seminar.



- Dr. Ambidkar Day 8th International Seminar “Social Discrimination Poison for Democracy” The seminar was held by the Department of Political Science in collaboration with the Centre for South Asian Studies, in the Al Razi Undergraduate Hall, University of the Punjab, Lahore, on 02.05.2013 at 10.00 a.m. Prof. Pamjeet Singh Judge, Prof. Rajiv Lochan, Ms. Manjula Pradeep Hotilal, Prof. Dr. Mujahid kamran was the keynote speakers. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- Muslim World Relations with China and West The seminar was held by the Department of Political Science in collaboration with the Centre for South Asian Studies, in the Al Razi Undergraduate Hall, University of the Punjab, Lahore, on 03.05.2013 at 11.00 a.m. Mr. Ole-E Moesby and Mr. S Uen Bermester was the keynote speakers. Prof. Dr. Umbreen Javaid welcomed the speaker and scholars from the Centre as well as Department of Political Science for their participation in the seminar.
- **Research Journals**
 - Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore, regularly publishes a Bi-Annual Research Journal, South Asian Studies. The following issues have been published during the required period.
 - South Asian Studies, Vol.27, No.2, December, 2012, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore
 - South Asian Studies, Vol. 28, No. 1, January, 2013, Centre for South Asian Studies, University of the Punjab, Quaid-e-Azam Campus, Lahore.

COLLEGE OF ART & DESIGN

- **Research & Development – An Overview**
 - Prof. Dr. Shaukat Mahmood has been serving as an HEC Professor under foreign faculty hiring programme from the last 7 years. He is actively engaged with students’ research projects and the course work as well.
 - **Publications**
 - Two articles are published by Ms. Maliha Azami Aga for Designer’s Style Magazine titled:
 - The Aesthete. Published during the July/ August Edition.
 - London Home to the world. Under Publication in September/ October Edition.
- Books published by Prof. Dr. Shaukat Mahmood
- Target Killings, Collection of 200 cartoons on political issues of national and international issues.
 - WMDs: US Weapons of Mass Deceit. A collection of over 180 cartoons exposing US invasion of Iraq.
 - Art Movements in the West (in Urdu). A text book for art students.



- A Man of the Arts (Editor)

Besides, the following articles are published by Prof. Dr. Shaukat Mahmood during the period in question:

- The Art of Penmanship, Sunday Plus of Daily The Nation, December 9, 2012.
- Vanishing Architectural Heritage of Sindh IV, Sunday Plus of Daily The Nation, December 16, 2012.
- How the Tea was born, Heritage, Islamabad, Issue 16, December 2012.
- Raushandans, Heritage, Islamabad, Issue 16, December 2012.
- Tomb at Halicarnassus, One of the Seven Wonders of the ancient World, Heritage, issue 15, Islamabad.
- Makli: No longer world's biggest Necropolis, Sunday Plus of Daily The Nation, February 17, 2013.
- Vanishing Architectural Heritage of Sindh V, Sunday Plus of Daily The Nation, March 17, 2013.
- Three Days in Xi'an, Sunday Plus of Daily The Nation, July 07, 2013.
- Giant Buddha of Leshan, Sunday Plus of Daily The Nation, July 14, 2013.
- Fasting in Islam and through the Ages, Sunday Plus of Daily The Nation, July 21, 2013.
- Miss Qazi and My Portrait, Sunday Plus of Daily The Nation, September 01, 2013.
- The Lion King (Shir Shah Suri), Sunday Plus of Daily The Nation, September 08, 2013.
- Blue Pottery Reincarnated, Heritage, Islamabad, Issue 18.
- M. M. Alam, Heritage, Islamabad, Issue 18.
- A Wall of China in Pakistan, Designers' Style, Vol.2 #5, May/June, 2013.
- Three Days in Chengdu, Sunday Plus of Daily The Nation, September 22, 2013.

Prof. Dr. Shaukat Mahmood, as a Cartoonist under nom de plume of Maxim

- Professional cartoonist in various leading dailies, weeklies and monthlies of Pakistan
- Have given demonstration on cartoon drawing on Pakistan Television, Lahore station,
- Arooj Rizvi wrote an article for Designer's Style Magazine with the title "I am....University College of Art & Design" published during the Month of May/ June.

- **Conferences, Seminars & Workshops etc.**

- Sarir e Khama: International Conference on Calligraphy held in the Month of December, 2012.
- Real and Conceptual Landscape Paintings in Pakistan was held in the Month of December, 2012.
- Solo Show of Ms. Maliha Azami Aga, Principal College of Art & Design, was held in the Month of January, 2013.
- Ms. Maliha Azami Aga conducted a presentation on "Design & Emotion" for the Faculty in October, 2012.
- Ms. Maliha Azami Aga attended an International Conference on "Design & Emotion" at Central St. Martins, London, UK during the Month of October, 2012.



- Live solo performance by Mr. Rakae Jamil at Smart Museum, University of Chicago (Chicago, Illinois) during the Month of February, 2013.
- Sitar workshop by Mr. Rakae Jamil at Logan Arts Center Launch Festival, University of Chicago (Chicago Illinois) during the Month of October, 2012.

DEPARTMENT OF ARCHAEOLOGY

- **Projects (i) Completed**

- UNESCO Sponsored Project Sui-Vihar Excavations and Archaeological Reconnaissance of Southern Punjab.

DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE

- **Publications: Book**

- Dr. Amra Raza, Spatial Constructs in Alamgir Hashmi's Poetry: A Critical Study, Lambert Academic Publishing- Germany.

- **Research Papers**

- Khurshid Alam, "Tragic Vision: Similarities and Departures in the Tragic Vision of O' Neill and Aeschylus" , Journal of Research (Humanities), Volume XLIX.
- Shamaila Dodhy, "Criss-Cross Patterns in Morrison's Jazz: A Postmodern Study" English Language and Literary Forum, Volume 14, 2012.

- **Conferences, Seminars & Workshops etc.**

- The English Department hosted five-day ELTR workshop titled "ELT with Perspective of CALL" in collaboration with HEC on September 23 to 27, 2013.
- Dr. Amra Raza, (i) Chair "South Asian Literature" session First Annual Conference on Social Sciences, LSE, February 28, 2013 (ii) Conducted a session on Communication Skills in Faculty Orientation Programme 2013, IAS, PU, Lahore.
- Ms. Ayesha.F. Barque, presented a paper titled "Language and Conditioning" in the 28th SPELT International Conference 2012, Lahore.
- Ms. Mamoona and Ms. Samra Soomro, attended (i) Faculty Orientation Programme 2013, IAS, PU, July 2-5, 2013 (ii) HEC Workshop on Faculty Professional Training, Institute of Agricultural Sciences, PU, June 19-20, 2013.

- **Research Journals**

- Journal of Research (Humanities) HEC recognized 'Z' category
- Journal of English Studies

RESEARCH COLLABORATION

- **Foreign Linkages**

- St. Andrews University, Scotland.



DEPARTMENT OF FRENCH LANGUAGE & LITERATURE

- **Research & Development – An Overview**

- Dr. Saleha Nazeer supervised a research thesis of M.A in French on the following topic:
 - L'étude des expressions français – ourdou

- **Projects**

- Dr. Saleha Nazeer continued her project on French translation of selected quatrains from Allama Iqbal's Armaghan-e-Hijaz – Persian section

- **Conferences, Seminars & Workshops etc.**

Conference Participation (International):

- Dr. Saleha Nazeer participated in video participation in International Conference in France at the University of Toulouse, 18th to 20th October 2012 (video participation).
- Dr. Saleha Nazeer attended a series of six training sessions of Turnitin Academy Live during September-October 2012. Workshops attended during October 2012 covered the following topics:
 - Developing Critical Thinking Skills with PeerMark
 - Faster Easier Grading with Grade Mark Rubrics

Papers Presented:

- In February 2013, Dr. Saleha Nazeer presented in an International Multidisciplinary Conference on Ethics, Spirituality and Freedom (IMCESF) titled held at Government Fatima Jinnah Post-graduate College for Women, Chuna Mandi, Lahore, from the 18th to the 20th of February, 2013. She presented her research paper on "Spirituality and Ethics in Saint-Exupery's Thought" which was greatly admired by all the researchers on the panel.
- In October 2012, Dr. Saleha Nazeer presented her paper on "Lecture des textes plurilingues d'Iqbal" at the International Conference on Traduction, plurilinguisme et langues en contact : traduire la diversité, by LLA – CREATIS (Lettres, Langage et Arts – Création, Recherche, Emergence en Arts, Textes, Images, Spectacles, EA 4152) at the University of Toulouse le Mirail, France.

Workshop Participation:

- In November 2012, Ms. Sabrina Rasool along with a student from French department participated in a three days workshop, "Teaching of French language through drama" organized at Aitchison College, Lahore.
- A young and talented student, Hibah Shabkez went to Tokyo in "Students' Exchange Program" through Punjab University on scholarship. She represented Pakistan in Japan and actively participated in different activities.



Other Academic Events :

- In November 2012, Iqbal Day was celebrated with enthusiasm. Students from Master part I & II gave presentations on the life history of Quaid-i-Azam and his struggle for the creation of Pakistan.
- Quaid-i-Azam day was celebrated through poster competition. The students from Master program made colorful posters with the sayings of Quaid-i-Azam in French & English languages.
- A literary talk was held at the Department of French, University of the Punjab, Quaid-e-Azam Campus, Lahore, on Monday, the 18th of February 2013. Prof. Dr. Michael O’Dea, the guest speaker, is a Professor Emeritus affiliated with the University of Lyon, and has a vast experience as teacher and researcher. Mr. Dominique Scobry, Director of Alliance française de Lahore, also graced the occasion with his presence.

The lecture focused the distinguished scholar’s area of specialization, the 18th century French literature. Prof. O’Dea spoke on “Optimism and the period of Enlightenment” with particular emphasis on the thoughts of Rousseau and Voltaire. Students and teachers listened eagerly, availing the opportunity to acquire a more profound insight into French intellectual and philosophical history. The lecture was followed by a Q&A session, in which students of the French Department participated enthusiastically, asking a number of intelligent and pertinent questions. Prof. O’Dea praised and congratulated the French department’s Faculty and students for the quality work. He also thanked the Head of the Department Dr. Saleha Nazeer for such a warm welcome and offered his support for academic collaboration between the two institutions.

- In January, Hiba Shabkez, a student at the French Department participated in French soirée – a cultural event dedicated to Poetry Poetry – organized by Aitchison College Lahore on the 18th of the January, 2013. She presented her poem Le Cadeau and was awarded the prize for the “Meilleur Débutant” by His Excellency Mr. Philippe Thiebaud, the Ambassador of France to Pakistan.
- In February 2013, two students from French department participated in “Seerat un Nabi” quiz, held at Faisal auditorium, Punjab University, Lahore.
- In May 2013, a documentary on Paris was arranged at the French Department in collaboration with the Alliance Française of Lahore. The Director of the Centre presented a live commentary on famous historical monuments of Paris displayed in the video and talked about the various aspects of Parisian life. The documentary was followed by questions and answers. This event was witnessed by students and faculty members. The documentary was followed by a simple ceremony for the award of certificated among the successful students of French language course-level A1.



- In September 2013, another ceremony was held to award certificates among the students of certificate in French course, batch 2.

DEPARTMENT OF HISTORY & PAKISTAN STUDIES

• **Research & Development – An Overview**

- The Department was established in 1932, with J.F. Bruce as its First Professor. It soon earned recognition owing to its high standard and expertise in a wide range of historical discipline. The Department since then stands as one of the elite and largest History Departments among the various Universities of Pakistan. It is a pioneer Department in South Asia for advanced studies and enjoys in status of premier and prestigious institution having fostered members of Faculty in other Universities. Initially, local colleges cooperated with the Department in organizing post-graduate teaching. Eminent scholars and professors contributed towards its advancement from time to time. Those who rendered invaluable services include Professor J.F. Bruce, Prof. Dr. A.L. Sirivastava, Prof. J.D Ward, Sir Montgomery Hyde, Dr. Ishtiaq Hussain Qureshi, Prof. Dilawer Hussain, Prof. Sh. Abdur Rashid, Prof. Dr. Abdul Hamid, Dr. Zafarul Islam, Dr. Zawar Hussain Zaidi, Syed Ali Abbas, Prof. Dr. Yar Muhammad Khan, Prof. Muhammad Aslam, Prof. Ikram Ali Malik, Prof. Dr. Sadiq Ali Gill, Prof. Qamar Abbss and Prof. Dr. S. Qalb-i-Abid. The Research Journal of the History Department entitled “Journal of the Punjab University Historical Society” is one of the oldest journals of the University. It first appeared in 1932 and is currently being published biannually. It is a journal of international repute.
- Department is planning to greatly strength the Ph. D programs. Three Students have completed Ph. D and Eight students have completed M. Phil in History and in this connection our Two Teachers have completed Ph. D and Two teachers are currently working on their Ph. D dissertations’. They are expected to complete their Ph. D in 2014.
- Students Completing their Ph. D
 - 12 students doing Ph. D from History Department as regular

• **Publications**

Authors Name	Book/Article Name	Journal with date	Duration
Prof. Dr. Muhammad Iqbal Chawla	Articles 1. The Charismatic Leader: Quaid-i-Azam Mohammad Ali Jinnah and the Creation of Pakistan (Book Review)	South Asian Study Vol-28 No. 01 January-June 2013.	Six months
	2. Prelude to the Accession of The Kalat State to Pakistan in 1948: An Appraisal	Research Society of Pakistan Vol. 49 No. 2 July-December 2012	Six months
Dr. Faraz Anjum	1. “Silencing the Past: Role of the Army in 1970-71 Conflict and its Depiction in Pakistani Textbooks,”.	Pakistan Vision 2013.	Six Months



Authors Name	Book/Article Name	Journal with date	Duration
	2. Encounter with Mughal Orient: A Study of Traveller's Representation of Jahangir's India in Pakistan Dimensions of History. Ed Syed Jaffar Ahmed Karachi	Pakistan Historical Society University of Karachi 2013.	Six Months
Mrs. Rukhsana Iftikhar	1. Images of Oriental Women in the Travel Writing of Seventeenth Century India	Pakistan Vision June 2013	Six Months
Mahboob Hussain	1. Sovereignty of Parliament as Constituent Assembly and Framing the Constitution of 1973	Journal of the Research Society of Pakistan June 2013	Six Months
	2. Institutional Relationship in Pakistan: A Study of Army and Parliament (1971-1977)	Pakistan Vision June 2013	Six Months
	3. Institutional Influence in Pakistan: Bureaucracy, Cabinet and Parliament.	Asian Social Sciences June 2013	Six Months
	4. Parliament in Pakistan 1971-77 and Chief Executive: An Analysis of Institutional Autonomy.	Journal of Political Studies Summer 2013	Six Months
	5. Judicial Institutions and Leaders on Rise of Separatism in Pakistan (1947-1971).	International Journal of Business and Social Sciences November 2013	Six Months

- **Conferences, Seminars & Workshops etc.**

- One day training workshop for Examiners.

RESEARCH COLLABORATION

- **Indigenous**

- 3 Students Mahboob Hussain, Ghazi Muhammad Abdullah and Naumana Kiran are doing Ph. D benefits from the HEC 5000 indigenous Scholarship

DEPARTMENT OF PHILOSOPHY

- **Publications**

Dr. Shagufta Begum Aneeqa Batool Awan	Plato's Concept of Justice and Current Political Scenario in Pakistan	International Journal of Humanities and Social Science, Vol. 3 No.11
Dr. Shagufta Begum	Iqbal's Epistemology	International Journal of Humanities and Social Science, Vol. 3 No.12
Dr. Ali Raza Tahir Assistant Professor	Islam and Philosophy (meaning and Relationship)	IJCRB, Vol.4, No.9 Jan 2013 International/ HEC Recognized
	Reasons of Decline of the Muslim World (An Analytical Study.	IJCRB, Vol.4, No.9 International/ HEC Recognized
	Metaphysics of Islam (synthesis)	IJCRB, Jan. 2013, International/ HEC Recognized



	God, Human Being and Universe (A view point of Nahjul Balagha)	IJCRB, May 2013, International/ HEC Recognized
	IQBAL and Persia (An Iqbalian Perspective)	IJCRB, Vol.5 NO.1 International/ HEC Recognized
	Political Thought of Iqbal (An Exposition)	June 2013 Vol.5, No.1 International/ HEC Recognized
	Rationalistic Theology – Mutazilism (A Religio-Historical Perspective)	IJRB July 2013 Vol 5 No.3

IMPLEMENTATION COMMITTEE FOR THE LITERARY HISTORY OF THE MUSLIMS OF INDO-PAK SUB-CONTINENT

- **Research & Development – An Overview**

- A Literary History of Muslims of Indo-Pak is being prepared. So far, five volumes have been published by the University Press. Volume five appeared in the year under review.
- Volume sixth is likely to be completed in the near future.

- **Publications**

- The Director got published the articles as detailed below:

-
-
-
-
-

PAKISTAN STUDY CENTRE

- **Research & Development – An Overview**

- The Centre is conducting research on different themes of Pakistan Studies, and on a variety of subjects dealing with the developments taking place in the world.
- The Centre publishes research works in shape of books, monographs as well as in our research journal 'Pakistan Vision'. 43 books have been published so far.
- The Centre's research journal, 'Pakistan Vision', is published bi-annually. It has been recognized by Higher Education Commission and has been made available on Centre's website.
- The Centre has been trying to play a more effective role in the promotion of academic and research collaboration with other universities, Pakistan Study Centres and other institutions. The Centre has established linkages with scholars and academicians of national and international repute.
- The Centre is organizing international conferences, seminars, the special lectures on regular basis. These are organized on a very large scale, covering variety of subjects; specialists working



in national and international institutions are invited to speak on matters of national and international importance. These are well-attended seminars.

- **Projects (i) Completed**

- The Centre has published 3 books, two issues of research journal Pakistan Vision during the period under review.

- **(ii) Newly Launched**

- The Centre has initiated a new bi-annual publication titled 'Pakistan and the World.'

- **Publications**

The Centre has been publishing books, a bi-annual research journal and quarterly India Desk & Inside Pakistan on regular basis. Following were published during the period under review:

- Book
 - Prof. Dr. Massarrat Abid & Prof. Dr. Qalb-i-Abid, Pakistan: Challenges to Democracy, Governance and National Unity
 - Prof. Dr. Qalb-i-Abid & Prof. Dr. Massarrat Abid, Pakistan Movement: Muslim League, Congress and the Britain
 - Prof. Dr. Massarrat Abid, Britain, India & Pakistan: Partition and After 1947-51
 - Prof. Dr. Qalb-i-Abid & Prof. Dr. Massarrat Abid, Punjab Politics: Diarchy to Partition
 - Prof. Dr. Qalb-i-Abid & Prof. Dr. Massarrat Abid, Gamal Abdul Nasser and After: The Palestine Problem in International Politics
- Research Journal
 - Pakistan Vision, (Journal) Vol. 13, No. 2, December 2012
 - Pakistan Vision, (Journal) Vol. 14, No. 1, July 2013
- Bi-Annual Publication
 - 'Pakistan and the World'

- **Conferences, Seminars & Workshops etc.**

During the period under review, Pakistan Study Centre organized:

- Seminar on 'Spanish America: Discovery, Conquest, Colonization and Independence',
- on July 4, 2013, Keynote Speaker: Prof. Dr. Fernando Camacho Padilla, Senior lecturer of Dalarna University, Sweden
- Seminar on 'Political Empowerment of Women in Pakistan', on March 7, 2013, Keynote Speaker: Dr. Asma Afzal Shami
- Seminar on 'Dear Uncle Sam, With Love, from Pakistan: Saadat Hasan Manto's Uncle Sam and US-Pakistan Relations' on Tuesday, January 29th, 2013, Keynote Speaker: Mr. Raza Naeem
- Organized a Workshop of the Teachers of Pakistan Studies of Colleges



- Seminar on 'Canal Development on the Empire's Frontier: Securing Late Nineteenth Century Sindh' on Friday, January 18th, 2013, Keynote Speaker: Dr. Daniel Haines, Royal Holloway, University of London
 - Seminar on 'Thesis Writing in Social Sciences' on Friday, January 11, 2013.
 - Keynote Speaker: Dr. Pippa Virdee, DeMontfort University, United Kingdom
 - Seminar on 'Environmental History and Creation of Pakistan' on Tuesday, January 8, 2013. Keynote Speaker: Prof. David Gilmartin of North Carolina State University, United States
 - Seminar on 'Perspectives on Mughal India: Rulers, Historians, Ulama and Sufis'' on on Tuesday, December 18, 2012. Keynote Speaker: Dr. Sajida Alvi, Professor of Islamic Studies at McGill University, Canada
 - Seminar on 'Allama Iqbal's Vision of Democracy' on Friday, November 09, 2012. Keynote Speaker: Mr. Qayyum Nizami
 - Seminar on 'Pakistan: Between Afghanistan and India' on Thursday, October 18, 2012.
 - Keynote Speaker: Prof. Dr. Piotr Balcerowicz, Professor of International Relations, Chair of South Asia, Faculty of Oriental Studies, University of Warsaw, Poland.
 - **Research Journals**
 - Two issues of the bi-annual research journal, 'Pakistan Vision', were published during the period under review.
 - Pakistan Vision, (Journal) Vol. 13, No. 2, December 2012
 - Pakistan Vision, (Journal) Vol. 14, No. 1, July 2013
- Following research articles were included in the last two issues of 'Pakistan Vision'.
- Pakistan Vision, (Journal) Vol. 14, No. 1, July 2013
 - A Factor in East Pakistan's Separation: Political Parties or Leadership, Rizwan Ullah Kokab, Massarrat Abid
 - Appraisal of the Change in spatio- Temporal Patterns of Lulc and its Impacts on the Vegetation of Lahore, Pakistan, Safdar Ali Shirazi, Syed Jamil H. Kazmi
 - Images of Oriental Women in the Travel th Writings of 17 Century India, Rukhsana Iftikhar
 - Simla Pact: The Great Success for Pakistan, Hina Rizvi
 - Role of Zamindar in the Struggle for Constitutional Reforms in North West Frontier Province (Khyber Pakhtunkhwa) 1919-1935, Zahida Suleman
 - Kashmir and 3 June Plan, Lubna Saif
 - Institutional Relationship in Pakistan: A Study of the Army and the Parliament (1971-1977), Mahboob Hussain
 - Nature of Indian Politics before 1947 , Kausar Parveen
 - Lahore Declaration February, 1999 A Major Initiative for Peace in South Asia, Amjad Abbas Magsi



- Silencing the Past: Role of the Army in 1970-71 Conflict and Its Depiction in Pakistani Textbooks, Faraz Anjum
- Pakistan Vision, (Journal) Vol. 13, No. 2, December 2012
 - Perspectives on Media Performance: Media, Conflict and Institution Building in Pakistan, Stephen D. Mcdowell, Azmat Rasul, Mariam Shaikh, Mehnaz Gul
 - Finding Balance between Unity and Diversity: A major Challenge to Democracy, Governance and National Unity, Sharif al Mujahid
 - Representations of Corruption in the English Print Media in Pakistan, 2011, Massarrat Abid, Zahra Shah
 - Transition to Democracy in Pakistan: A Comparison to Rustow's Thesis", Huma Baqai
 - Empowerment and Political Mobilization of Women in Pakistan , Azra Asghar Ali
 - Tahrik Nifaz - e - Shariat - e - Muhammadi and Democracy TNSM's Critique of Democracy , Sultan-i-Rome
 - Balochistan and Eighteenth Amendment, Abdul Basit Mujahid
 - Science and Media: at the Intersection of Change in Pakistan , Seemi Naghmana Tahir/Muhammad Irfan Aziz
 - Peace-Building in South Asia: A Need for Third Party Mediation, Naeem Ahmad
 - Legislative Initiative in the Area of Domestic Violence in Pakistan: Gender Approach to the Core Provisions of the Domestic Violence (Prevention and Protection) Act 2009, Shazia Qureshi
- Book Review
 - Husain Haqqani: Pakistan: Between Mosque and Military by Syed Ali Abbas

RESEARCH COLLABORATION

- **Indigenous**
 - The Centre has been collaborating with various universities and national as well as international institutions on matters of research and education.
 - Eminent Scholars and academicians of national and international repute visit the Centre on regular basis. Special lectures are arranged at the Centre quite often on a very large scale.
- **Foreign Linkages**
 - Prof. Dr. Massarrat Abid, Director of the Centre visited Jiangsu Normal University, China to deliver a series of lectures on History and Politics of Pakistan.
- **Funding Grants for R&D**
 - Applications to HEC and Punjab University for Grants of Research Projects had been made which were approved and grants were received.



RESEARCH SOCIETY OF PAKISTAN

- **Publications**

- **Books Reprinted**

- The Emergence of Pakistan

- **Books Printed**

- Pakistan Challenges To Democracy, Governance and National Unity
- Partition and Anglo-Pakistan Relations 1947—51
- Pakistan Movement - Muslim League - Congress and the British
- Punjab Politics - Dyarchy to Partition

- **Books Under Print**

- The Land Mark of Pakistan

Faculty of Behavioral & Social Sciences

DEPARTMENT OF GENDER STUDIES

- **Publications**

- Ra'ana Malik (2013). Gender differential personality development in single-sex and coeducational primary schools. Asian Journal of Research in Social Sciences and Humanities Vol. 3, No. 7.
- Ra'ana Malik (2013). Urban-rural disparities in the knowledge, attitudes & practices towards tuberculosis. Academic Research International Vol. 4, No.4.
- Ra'ana Malik (2013). Students' personality development: Single-sex versus coeducational schools in Pakistan. Asian Journal of Management Sciences and Education (AJMSE) Vol. 2, No.3.
- Ra'ana Malik (2013). Religiosity, sexual behaviors & attitudes among youth. Global Research Analysis Vol.2, No.7.
- M. Aamir Hashmi, William Bart, A. Zeshan & Ra'ana Malik (2013). A comparison of basic cognitive abilities among American and Pakistani students. Journal of Social Sciences Vol. 5, No. 2.
- Ra'ana Malik (2013). Gender differential academic achievement of students in single-sex and coeducational primary schools in Pakistan. Bulletin of Education and Research (BER) Vol. 35, No.2.
- Ra'ana Malik (2013). Gender sensitization of media about violence against women. International Journal of Scientific Research Vol.2, No. 7.
- Ra'ana Malik (2013). Differential effects of single sex versus coed education on the personality development of primary school students. Pakistan Journal of Social Sciences Vol. 33, No.1.
- Ra'ana Malik (2013). Socio-cultural context of violence against women in Pakistan. Research on Humanities and Social Sciences Vol. 3, No.9.



- **Conferences, Seminars & Workshops etc.**
 - Role of Youth in Effective Parliament: September 2013.FAFEN
 - One day Workshop on “Men & Masculinities”, May 2013-10-24.
 - One day Workshop on “Gender and Peace Conflict”, June, 2013.
 - One day Workshop on “Gender Responsive Budgeting”, July, 2013.
- **Research Journals**
 - Started in 2006. Working to bring it in streamline. The back issues will be published in this year.

DEPARTMENT OF POLITICAL SCIENCE

- **Projects (i) Completed**
 - Punjab University funded research project titled “Dynamics of demand for Bahawalpur Province: Implications for the on-going societal integration and federation of Pakistan” completed by Prof. Dr. Umbreen Javaid.
 - Punjab University funded research project titled “Dynamics of Pakistan Politics: Role of elections in Pakistan” completed by Prof. Dr. Iram Khalid.
 - Punjab University granted research project titled “Intra-State Conflicts: case study of South Asia region” completed by Ms. Rehana Saeed Hashmi, Assistant Professor.
 - Punjab University granted research project titled “South Asian Security compulsions: A historical analysis of India- Pakistan Relations” completed by Dr. Gulshan Majeed, Assistant Professor.
 - Punjab University granted research project titled “Security Threats and areas of engagements between Indian & Pakistan” completed by Dr. Mubeen Adnan, Assistant Professor.
 - Punjab University granted research project titled “Analysis of insurgency and counter – insurgency in FATA” completed by Ahmad Ali Naqvi, Lecturer
- **Publications**
 - Prof. Dr. Umbreen Javaid
 - “The Mumbai Terror '2008' and its Impact on the Indo-Pak Relations” Dr. Umbreen Javaid and Marium Kamal, Journal of South Asian Studies, University of the Punjab, Lahore, Vol. 28, No. 1, January-June, 2013, (HEC recognized category “Y”).
 - “War on Terror Partnership: Problems and Prospects for Pakistan” Dr. Umbreen Javaid and Zulfiqar Ali , Journal of Political Studies, Vol. 20, Issue 1, Summer 2013, (HEC recognized category “Y”).
 - Prof. Dr. Iram Khalid
 - Restructuring the Image of Pakistan: Internal Challenges and External Pressures, (submitted for publication). Dialogue, 2013, Peshawar.
 - Management of Pakistan – India Conflicts: An Application of Crisis Decision-Making in (Submitted to NDU, 2013) Islamabad.



- The Minority Crisis 1950: Between Pakistan and India, Pakistan Vision, Vol. 06, No. 02, 2013.
- Politics of Federalism in Pakistan: Problems and Prospects, (accepted for Publication), Summer, 2013
- Hydro Politics in Pakistan: Perception and Misperception, (accepted for Publication), Summer, 2013
- “Nuclear Security Dilemma of Pakistan” (accepted for publication) [Journal of Political Studies, Punjab Univ. Lhr (Summer 2013)
- “Trends in Indian Politic” Universal Journal of Management and Social Sciences, UJMSS, Vol 3, No.1, Jan. 2013, pp:14-22.
- Good Governance: Issue of Accountability in Pakistan [2002-2008] ijbcnet.com33.
- “Nuclear Doctrine: Ramifications for South Asia”. [Journal of South Asian Studies, Punjab Univ. Lhr (Winter 2012); Vol.27, No.2, pp:313-334]
- “Role of Judiciary in the Evolvment of Democracy in Pakistan”. [Journal of Political Studies, Punjab Univ. Lhr (Vol. 19, No.2, 2012 Winter 2012): pp:143-54]
- Rana Eijaz Ahamd
 - Rana Eijaz Ahmad, An Alternate Structure of Governance: A case of Pakistan in the Journal of Developing Country Studies U.S.A. Vol.02 No.1 (2012). Pp. 11-16.
 - Rana Eijaz Ahmad, Democracy a Form of Government or A Human Instinct in the Journal of Research on Humanities and Social Sciences U.S. A. Vol.02 No.1 (2012), pp. 45-48.
- Dr. Mubeen Adnan
 - “Areas of engagement & seucirty threats between India & Pakistan” Journal of Political Studies, Vol. 20 , Issues I, Summer 2013.
- Dr. Gulshan Majeed
 - “Ethnicity and conflict: A theoretical perspective” in Journal of Political Studies, Vol. 20 , Issues I, Summer 2013.
- **Conferences, Seminars & Workshops etc.**
 - Organized a two day workshop on “Statistical Package for Social Sciences (SPSS)” Ms. Saulat Khan and Ms. Zozia Kiran delivered the Lecture on 22nd Wednesday and 23rd May, 2013.
 - Organized a seminar on “Muslim World: Relations with West and China”, Mr. Sven Burmester, Danish Scholar, delivered the Lecture on 3rd May, 2013.
 - Organized a joint seminar with Navy War College, Lahore on 29th March, 2013.
 - Organized a seminar on “Significance of Election and Voting”, in Collaboration with Centre for South Asian Studies, University of the Punjab, Lahore on 8th May, 2013.
 - Organized a National Conference on “Dynamics of Pakistan Politics” in Collaboration with Centre for South Asian Studies, University of the Punjab, Lahore on 21st March, 2013.



- Organized a National Conference on “Kashmir: A Story of Struggle” and presented a paper on “Kashmir Issue and Peace in South Asia” in Collaboration with Centre for South Asian Studies, University of the Punjab, Lahore on 27th February, 2013.
- Organized a seminar on “Cancer Awareness” by Dr. Abubakar, Director Anmol Hospital on 29 January, 2013.
- Organized a seminar on “Information Network Village and Regional Development”, in Collaboration with Centre for South Asian Studies, University of the Punjab, Lahore by Professor Jin Wan Seo, Institute of Incheon, Korea, delivered a lecture on 29 January, 2013.
- Organized a workshop on “Research Methodology (APA Reference Style)” in collaboration with Centre for South Asian Studies, University of the Punjab, Lahore on 28 January, 2013.
- Organized a seminar on “Application of Psychology to War and Peace”, Professor Emeritus Dr. Daniel J. Christie, full bright specialist, Peace and Conflict Studies, Ohio State University, USA, delivered a lecture on December 20, 2012.
- Organized a seminar on ‘Dismemberment of Pakistan’ 16th December 1971’ at Centre for South Asian Studies, Ex-Chief Justice ® Mehboob Ahmad and Lt. Gen. ® Nasir Akhtar, delivered the lecture on Dec. 18, 2012
- Organized a workshop on “Human Rights in 21st Century”, in collaboration with Human Rights and Minorities Affairs, Government of Punjab; Human Rights Ministry, Government of Pakistan, Regional Directorate, Lahore; Department of Political Science, & Centre for South Asian Studies, University of the Punjab, Lahore on December 10, 2012 speakers Mr. Abid Hassan Mantoo, Senior Advocate Supreme Court, Ahmar Bilal Sufi, Advocate Supreme Court of Pakistan and International Law Expert, Ms. Lubna Mansoor, Regional Director and Muhammad Yousaf, Deputy Director, Human Rights Ministry, Government of Pakistan, Regional Directorate, Lahore.
- Organized a seminar on “Human Rights in South Asia with Special Reference to Pakistan”, Mr. Muhammad Yousaf, Deputy Director (Human Rights), Human Rights and Minorities Affairs Department, Government of the Punjab, delivered the Lecture on November 22, 2012.
- Organized, a seminar on “Pakistan’s National Security Issues”, Gen. Ehsan ul Haq, Ex-DG ISI and Joint Chief of Staff, delivered the Lecture on November 09, 2012.
- Organized a seminar on “Drug Abuse Prevention and Role of Youth”, Ms. Maria Ali, Drug Demand Reduction Officer, Anti Narcotics Force, Regional Directorate delivered the Lecture on October 25, 2012.
- **Research Journals**
 - Department of Political Science successively publishing its Research journal “Journal of Political Studies’ since 2000, HEC recognized in ‘W’ category.



RESEARCH COLLABORATION

- **Indigenous**
 - MoU/ Collaboration with Lahore Council for World Affairs.
 - Collaboration with Navy War College, Lahore
 - MoU/Collaboration with Intermedia with financial Assistance of The Asia Foundation.
- **Foreign Linkages**
 - Collaboration with Centre for Civic Education, Pakistan in Centre's three years program "Youth Capacities for Rule of Law and Good Governance" a program supported by British High Commission.
 - MoU/Collaboration with Intermedia with financial Assistance of The Asia Foundation.
- **Funding Grants for R&D**
 - Prof. Dr. Umbreen Javaid received a sum of Rs. 900,000/- granted for research project titled "Violence in the name of Religion: Origin, Motivation and Manifestation in Pakistan" from Punjab University.
 - Punjab University granted a sum of Rs.350,000/ granted for Publication of Research Journal for 2012-13
 - Prof. Dr. Iram Khalid received a sum of Rs.250,000/ for research project titled "Dynamics of Pakistan Politics: Role of elections in Pakistan"
 - Ms. Rehana Saeed Hashmi ,Assistant Professor, received a sum of Rs.150.000/- for research project titled 'Politics of Federalism and Ethnic conflict regulations in Pakistan' by Punjab University.
 - Dr. Mubeen Adnan, Assistant Professor, received a sum of Rs.150.000/- for research project titled 'Security threats and areas of engagements between Indian & Pakistan'" by Punjab University.
 - Dr.Gulshan Majeed, Assistant Professor, received a sum of Rs.125.000/- for research project titled 'South Asian Security compulsions: A historical analysis of Indian-Pakistan Relations'" by Punjab University.
 - Ahmed Ali Naqvi, Lecturer, received a sum of Rs.125,000/- for research project titled "Analysis of insurgency and counter – insurgency in FATA" by Punjab University.

DEPARTMENT OF SOCIAL WORK

- **Conferences, Seminars & Workshops etc.**
 - A seminar was organized for the students of Social Work in the area of "Using Social Work Theory into Practice" on 18th March, 2013. The resource person was Dr. Andrew Hamid, a faculty member at Columbia's School of Social Work, New York.



- A Seminar was conducted on “Dynamics of Social Change in Pakistan” on 15th April, 2013. The resource person was Dr. Abdul Qadeer, Prof. of Emirates, Urban and Regional Planning, Queens University, Kingston, Canada.

INSTITUTE OF COMMUNICATION STUDIES

● **Projects (i) Completed**

- “Striking a balance between real world and normative approaches: Ethical values in media practices and media education in Pakistan” funded by University of the Punjab (2012-13) submitted by Dr. Bushra H. Rahman.
- “Meta-Analysis of Mass Communication Research Journals Published by the Public Universities of Sindh From their Inception to 2012” A project of 2012-2013, approved for financial assistance from the Punjab University by Dr. Abida Eijaz.
- Served as research supervision for Georgia State University’s project titled “Technology for Identifying Willingness to Access Healthcare” by Dr. Abida Eijaz.

(ii) Newly Launched

- “Compatibility of Media Education & Market Needs: Issues, Challenges & Future Directions” approved for financial assistance from Punjab University by Dr. Noshina Saleem.

● **Publications**

Dr. Noshina Saleem

- “Print media on coverage of political parties in Pakistan: Treatment of opinion pages of the Dawn & News” Gomal University Journal of Research. Vol.29, issue 1, June 2013.
- Framing of US policy regarding terrorism in responsibility sensational media matrix: A case of Pakistan media 2013.
- “Impact of Natural disasters terrorism & political news on KSC-100 Index” Forman Journal of Economic Studies, volume 8, 2012.
- Portrayal of Pakistan by US leading News Magazines “Newsweek” and “Time” published in “Science International 2013 25(4) 965-970.

Dr. Bushra H. Rahman

- The role of television and discussant group in political opinion process: Understanding the effect of interpersonal communication, television, and political efficacy in the educated youth. Interdisciplinary Journal of Contemporary Research in Business (IJCRB). Vol 4, No: 9. January, 2013.
- “Islam and the West - connectivity through religion: a case of religious journalism in Pakistan (2000-2010)” Universal Journal of Management and Social Sciences (UJMSS) volume 2, Issue 4 published in November 2012.



- Presented a research paper titled “Portrayal of political women in Pakistani Media” in a seminar organized by Norwegian Business School and the University of Oslo on June 11, 2013 to celebrate the 100 years anniversary for Norwegian Women’s right to vote.
- Presented a research paper in titled “Making sense of Afghan women: A critical study of the coverage in the US based international magazines” in the MediAsia-2012: The Asian Conference on Media and Mass Communication 2012, November 2-4, 2012 organized by the International Academic Forum, in Osaka, Japan.

Dr. Abida Eijaz

- “Articulation of Political Discourse Through The Prism Of Mass Media In Pakistan” Published in European Journal of Business and Social Sciences. Vol.1 2012.
- Media Affecting upon or Affected by Foreign Policy: The Case of Pakistan. Published in Journal of Alternative Perspectives in the Social Sciences (2012). Vol. 5 No.1, 74-95.
- Re-conceptualizing Secularism in the Backdrop of Fethullah Gullen: The Case of Pakistan. Published in New Media and Mass Communication. Vol. 8. 2012, Pp12-19
- “Impact of new media on the Dynamics of Pakistan Politics” published in Journal of Political Studies vol 20, issue I, summer 2013.
- **Conferences, Seminars & Workshops etc.**
 - Organized Seminar on "Terrorism and the Coverage of Media" at Hameed Nizami Memorial Conference Room, ICS on November 08, 2012. Mr. Mujeeb-ru-Rahman Shami, Mr. Farrukh Sohail Goindi and Mr. Sajjad Mir were the guest speakers.
 - Organized a Debate Competition on "Iqbal, Youth & Media" at the Institute of Communication Studies on November 11, 2012. Mr. Waleed Iqbal (Grandson of Allama Muhammad Iqbal) was the guest speaker.
 - Organized a Seminar on Seminar on "The Role of the Third World Media in Getting the Human Rights Restored in the United States" at ICS on December 07, 2012. Mr. Hon Cynthia McKinney, Ms. Sara Flounders, Esq and Mr. Farrukh Sohail Goindi were the guest speakers of this event.
 - Organized a Seminar on "Mashrqi Pakistan Ki Yad Mein" at the Hameed Nizami Memorial Conference, Institute of Communication Studies on December 13, 2012. Mr. Altaf Hassan Qureshi, Farrukh Sohail Goindi and Major Aftab were the guest speakers.
 - Organized “Maulana Zafar Ali Khan Day” (the birth anniversary of Maulana Zafar Ali Khan) to commemorate his life and meritorious services rendered during Pakistan Independence Movement on January 17, 2013. Mr. Mujeeb-ur-Rahman Shami, Masood Ali Khan, Khalid Mahmood and Mr. Jamil Athar were the speakers of this event.
 - Organized a “Seerat-un-Nabi Conference” held at Hameed Nizami Memorial Conference Room, Institute of Communication Studies on February 07, 2013.



- Special Lecture organized on "How to write screen play of a feature film and documentary" by Richard Heller, Journalist, Screen Play writer and Novelist at the Hameed Nizami Memorial Conference Room on March 14, 2013.
- Seminar organized on "Core Journalistic Values" at Institute of Communication Studies on March 21, 2013. Mobeen Azhar, BBC Trained Producer was the speaker of the seminar.
- Organized a special lecture on "Radio Broadcasting" by Mr. Hadi Syed, Presenter FM 103 at Hameed Nizami Memorial Conference Room held on April 16, 2013.
- Organized a seminar on "Study Abroad Guidance" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies held on April 18, 2013.
- A Special Lecture organized on "News Feature Reporting" by Rizwan Hameed, Express TV at the Institute of Communication Studies held on April 24, 2013.
- Organized a workshop on "Effective Critical Thinking" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies held on May 31, 2013.
- Workshop organized on "Tenure Track System" at Hameed Nizami Memorial Conference Room, ICS held on June 05, 2013.
- Organized a 9th Anniversary of Punjab University Radio FM 104.6 at the Institute of Communication Studies held on June 12, 2013. Well-known media persons were the guest speakers.
- Organized a Seminar on "Advocacy Campaign on Self Medication" at the Hameed Nizami Memorial Conference Room, ICS held on September 04, 2013.
- Organized an advocacy campaign on "Intolerance" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies on September 19, 2013.
- Advocacy Campaign organized on "Lack of appreciation demotivates the Students" at the Institute of Communication Studies on September 20, 2013.
- Organized an advocacy campaign "Environmental Cleanliness" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies on September 23, 2013.
- **Research Journals**
 - Biannual Journal of Media Studies

INSTITUTE OF SOCIAL & CULTURAL STUDIES

● **Publications**

Dr. Zakria Zakar

- Zakar, Rubeena, Muhammad Zakria Zakar, Thomas Faist, Alexander Krämer. (2012). Intimate partner violence against women and related immigration stressors among Pakistani immigrant families in Germany. Springer Plus, 1:5. (Internationally highly accessed article)



- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. (2012). Men's belief and attitudes towards intimate partner violence against women in Pakistan. *Violence Against Women* (in press). (Impact factor: 1.328)
- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. (2012). Spousal violence and its association with women's mental health in Pakistan. *Health Care for Women International* (accepted). (Impact factor: 0.63)
- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. (2012). Voices of Strength and Struggle: Women's Coping Strategies against Spousal Violence in Pakistan. *Journal of Interpersonal Violence*. 27(16), 3268-3298. DOI: 10.1177/0886260512441257. (Impact factor: 1.639)
- Zakar, Rubeena, Muhammad Zakria Zakar, Rafael Mikolajczyk, Alexander Krämer. Intimate partner violence and its association with women's reproductive health in Pakistan. *International Journal of Gynecology and Obstetrics* 117(1)10-14. (Impact factor: 2.045)

Prof. Dr. Muhammad Hafeez

- Hafeez, Muhammad. (2012). promoting gender awareness among health workers: Analyzing access and use of health services, Punjab province, Pakistan. *Women Empowerment and social transformation*. (Conference proceedings)
- Alvi, Fauzia Saleem, Munawar, Riffat, Hafeez, Muhammad (2013) .“Consumer Culture: An Analysis in a Socio- Cultural and Political Frame”. *Journal of South Asian Studies*. Vol.29, No.1,(September-December 2013)

Dr. Riffat Munawar

- Munawar, Riffat. (2012). Decentralization and women's political empowerment in South Asia, *Women Empowerment and social transformation*. (Conference proceedings)
- Usman, Ahmed, Munawar, Riffat and Amjad, Aisah .(2013). Determinants of Effective Electoral Campaign. *Journal of South Asian Studies*. Vol.28, No.1, (January-June 2013)
- Alvi, Fauzia Saleem, Munawar, Riffat, Hafeez, Muhammad (2013) .“Consumer Culture: An Analysis in a Socio- Cultural and Political Frame”. *Journal of South Asian Studies*. Vol.29, No.1,(September-December 2013)

Dr. Khalil Ahmad

- Khalil, Ahmad. (2012). Self-management of Chronic Conditions and Healthy Living: A Study on the Chronically Ill Older Adults in Urban Lahore, Pakistan. *Pakistan Journal of Science* (Vol. 64 No. 4: 337-343 (December, 2012).
- Khalil, Ahmad and Sana Ejaz. (2013). Postpartum Care Utilization among Primary gravida: A Study in Rural Punjab, Pakistan. *Research on Humanities and Social Sciences*, Vol.3, No.4: 10-19 (March 2013)



- Khalil Ahmad, Ashraf Khan, Kayani and Aamir, Saeed. (2013). Perceptions about Cultural Globalization in Urban Pakistan. A research Journal of South Asian Studies, Vol. 28, No.1: 127-138 (January-June 2013).
- Khalil Ahmad, Aamir Saeed, Ghalib, Ata and Abdul Qayyum, Chaudhry. (2013). Making Sense of Federalism in Pakistan. Developing Country Studies, Vol.3, No. 4: 116-125.

Rahla Rahat

- Rahat, Rahla. (2012). Gendered spaces in Pakistani society: A critical Introduction. Women Empowerment and social transformation. (Conference Proceedings)

Dr. Rubeena Zakar

- Nusrullah, Muazzam, Rubeena Zakar, Alexander Kraemer. (2013). Effect of child marriage on maternal health care services utilization in Pakistan. Obstetrics & Gynecology. 122 (3), 517-524 (Impact factor: 4.73)
- Zakar, Rubeena, Muhammad Zakria Zakar, Rafael Mikolajczyk, Alexander Krämer. (2013). Spousal violence and its association with women's mental health in Pakistan. Health Care for Women International. DOI:10.1080/07399332.2013.794462 (Impact factor: 0.63)
- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. (2013). Men's belief and attitudes towards intimate partner violence against women in Pakistan. Violence Against Women, 19(2), 246-68. (Impact factor: 1.328)
- Zakar, Muhammad Zakria, Rubeena Zakar, Florian Fischer. (Dec 2012). Climate change-induced water scarcity: A threat to human health. Journal of South Asian Studies, 27(2), 293-312. (HEC recognized "Y" category journal)
- Zakar, Rubeena, Muhammad Zakria Zakar, Alexander Krämer. (Nov 2012). Voices of Strength and Struggle: Women's Coping Strategies against Spousal Violence in Pakistan. Journal of Interpersonal Violence, 27(16), 3268-3298. DOI: 10.1177/0886260512441257. (Impact factor: 1.639)

Dr. Fauzia Saleem Alvi

- Alvi, Fauzia Saleem, Munawar, Riffat, Hafeez, Muhammad (2013). "Consumer Culture: An Analysis in a Socio- Cultural and Political Frame". Journal of South Asian Studies. Vol.29, No.1,(September-December 2013)

Dr. Ahmad Usman

- Usman, Ahmed, Munawar, Riffat and Amjad, Aisah (2013). Determinants of Effective Electoral Campaign. Journal of South Asian Studies. Vol.28, No.1, (January-June 2013)

Dr. Raza Ullah

- Ullah, Raza. (2013). "Variations in perceptions of the learning environment and approaches to studying among university students in Pakistan". Prospects: Springer XLIII, no. 2.



- Ullah, Raza. (2013) "Manifestation of mobile phone assisted personal agency among university students: evidence from Lahore. South Asian Studies Journal. Vol. 28, No.1
- **Conferences, Seminars & Workshops etc.**
 - Dr. Sameen Masood
 - A faculty member Dr Sameen Masood presented paper titled 'Coping with Natural disasters in Poor countries', at 9th EBES Conference, Rome. January 11-13.
 - At the ISCS
 - A faculty member Dr Sameen Masood attended a training entitled "New Trends in good governance by AHK NCRD". Ministry of Education and training on 15-19 October , 2012.
 - In December 2012, a Seminar titled "Character Building of Youth for Future Leadership" was held under the Center for Peace and Security Studies at the ISCS. Mr. Syed Zaeem Hussain Qadri, MPA, Punjab was the chief guest for the occasion.
 - In December 2012, a series of seminars/consultative meeting with Dr. Alexander Kramer Professor public health Bielefeld University, Germany were held to finalize the new program of Masters in Public Health. The entire faculty of the ISCS took active participation in these meetings.
 - In December 2012, another seminar titled "Ageing Issues in Pakistan" was organized by the collaboration of Help Age International at ISCS.
 - A team of students of M.Sc. Population Sciences attended the 13th Annual Population Research Conference on "Population Wellbeing – A development imperative" organized by the Population Association of Pakistan (PAP) held at IBA, Karachi.
 - January - March 2013:
 - In January, 2013 a One day Training Workshop on "Using EnVivo Software for Qualitative Data Analysis", was arranged for post graduate students of ISCS. The resource person was Dr. Sameen Masood, faculty member of ISCS.
 - A faculty member Dr Sameen Masood attended a conference on 'Potential of Bai Salam Global forum on Islamic Finance(GFIF), COMSATS Lahore, March 11-13.
 - In March, one day training workshop on "literature review Made Easy" was organized at ISCS. The resource person was Dr. Kanwal Amin chairperson, department of Library and Information Sciences, University of the Punjab.
 - Classes of Dev. Studies Sem-II, MSc Sociology Sem-II Regular and Replica and MPS Sem III were taken on a recreational trip to Khuwera mines on March23, 2013.Dr. Fauzia.S.Alvi organized and accompanied the students on this trip.
 - Annual Get together of Alumni Association of Punjab University Sociologist (AAPUS) was arranged at Executive Club, University of the Punjab.



- Seminar on “Issues or Resettlement and Rehabilitation in Pakistan” by Mr. Imran ul haq, Senior Engineer, Geotechnical and Geo environmental Engineering Division, NESPAK, Lahore.
- April to June 2013
 - A seminar was conducted by Mr. Chaohua Zhang, Lead Social Development Specialist, South Asia, Social Development Unit, World Bank on “Importance of Center of Excellence of Resettlement at Regional Level in South Asia”.
 - A Seminar on “Social Risks Attached with Resettlement of displaced Population” was held with” Dr. Ferdous Jahan, BRAC Development Institute, BRAC University.
 - A ceremony was held in connection to the Launching of regional National Center of Resettlement and Rehabilitation (NCRR) in India, Bangladesh and Pakistan in collaboration with the World Bank. via video conferencing.
 - Three faculty members (Dr. Sameen Masood, Dr. Ahmed Usman, Ayesha Siddiq Bugvi) of ISCS received three days (April16-18) training of “Management of Land Acquisition, Resettlement and Rehabilitation in Pakistan” at NESPAK, Lahore.
 - Dr. Fauzia Saleem Alvi participated in a workshop on “Developing Effective Critical Thinking” on May 31, 2013, organized by Institute of Communication Studies. University of the Punjab. Lahore.
 - A special lecture on “Security Challenges of South Asia” was given by Jason Burke, Correspondent, South Asia for The Guardian and The Observer.
 - Boris Wilke, Researcher at Institute for Interdisciplinary Research on Conflict and Violence, Bielefeld University gave a special presentation on multilateral comparative research program on conflict and violence in developing and transformation countries.
 - Two faculty members (Dr. Zakria Zakar and Rahla Rahat) attended “International Conference ‘Resettlement, Rehabilitation and Benefit Sharing in Infrastructure Development’, during May 20-24, 2013, held at Administrative Staff College of India, Hyderabad in Collaboration the World Bank.
 - Centre in charge of National Center on Resettlement and Rehabilitation (NCRR) was part of World Bank mission from 2nd to 7th June on “Guddu Barrage Rehabilitation Project.
 - A special lecture was given by the Resettlement Expert Dr. Muhammad Anwar on R&R experiences from Ghazi Barotha Project.
- July to September 2013
 - ISCS organized National Stakeholders Conference on Land Acquisition, Resettlement and Rehabilitation" at Institute of Social & Cultural Studies, University of the Punjab Lahore on 3 – 4 July.



- Two faculty members (Rahla Rahat and Ayesha Siddiq Bugvi) attended the meeting of regional centres for MLARR Course review at SriLanka from 13-15 July.
 - In September 2013, a MoU was signed between Pakistan Poverty Alleviation Fund (PPAF) and University of the Punjab to collaborate for capacity building, student internships and research activities.
 - A faculty member Dr Sameen Masood presented a paper titled 'Sustaining Agriculture sector in post disastrous circumstances through Islamic Finance'. 4th Conference Dealing with Disasters. IDRIM, /September 4-6, UK.
- **Research Journals**
 - A research Journal titled 'Pakistan Sociological Review' is being published biannually since 2012.

RESEARCH COLLABORATION

- **Foreign & Indigenous Linkages**
 - A joint research program among University of the Punjab, University of Karachi and Bielefeld University, Germany, titled 'Violence Research and Development' was initiated in June 2013. In this regard four researchers were selected from all over Pakistan.

Faculty of Commerce

HAILEY COLLEGE OF BANKING & FINANCE

- **Research & Development – An Overview**
 - We do not have any Institutionalized Arrangement for R&D. However, research backed teaching is being undertaken by us by distributing the following booklets to the students and faculty members of our College:
 - Federal Budget
 - Punjab Budget
 - SAARC
 - Banking Scene in Pakistan
 These are being uploaded on our College Website.
- **Publications**
 - Prof. Dr. Khawaja Amjad Saeed authored the following books (Edition 2013):
 - Management: Concepts & Cases (12)
 - Strategic Management (with 16 cases).
 - Company Law in Pakistan.
 - Principles of Auditing.
 - Advanced Auditing.
 - Information Technology For Business Executives.



- The Economy of Pakistan.
- Prof. Riaz Ahmad Mian authored the following two books:
 - Banking & Finance
 - Money, Banking & Finance
- **Conferences, Seminars & Workshops etc.**
 - The Principal of the College and other two faculty members (lecturers) participated in International Conferences, Seminars and Workshops at home and abroad and their papers were accepted in the International Events.

HAILEY COLLEGE OF COMMERCE

- **Publications**
 - 27
- **Conferences, Seminars & Workshops etc.**
 - 16 Conferences/Seminars and Workshop National and International attended the by HCC faculty members.
- **Research Journals**
 - 8 Research Journal by HCC faculty members & Hailey College Published Annual Journal Al-Iqtisad

Faculty of Economics & Management Sciences

DEPARTMENT OF ECONOMICS

- **Publications**

Dr. Afzal Choudhry

 - Muhammad Afzal, M. Shafiq, N. Ahmad, H. M. Qasim and K. Sarwar (2013). Education, Poverty and Economic Growth in South Asia: A Panel Data Analysis. Journal of Quality and Technology Management, Volume IX, Issue I (June), pp. 131-154.
 - Muhammad Afzal, Muhammad Ehsan Malik, A. Rauf butt and Kalsoom Fatima (2013). Openness, Inflation and Growth Relationships in Pakistan: An Application of ARDL Bounds Testing Approach. Pakistan Economic and Social Review, Volume 51, No. 1 (Summer), pp. 13-53.
 - Muhammad Afzal, Muhammad Ehsan Malik, Ishrat Begum, Kafeel Sarwar and Hina Fatima (2012). Relationship among Education, Poverty and Economic Growth in Pakistan: An Econometric Analysis. Journal of Elementary Education, Volume 22, No. 1, pp. 23-45.

Dr Hafiz Khalil Ahmad

 - Ahmad, Khalil and Wajid, Sajida, "What Matters For Economic Growth In Pakistan: Fiscal Policy Or Its Composition?", Asian Economic and Financial Review, vol. 3, No 2, pp. 196-215.
- **Research Journals**
 - Pakistan Economic and Social Review



DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

• **Research & Development – An Overview**

- Faculty and students got published in national and international journal of repute, got research & travel grants and fellowships. They also provide research trainings within and outside the university. The departmental annually peer-reviewed journal (PJLIS) qualifying for the next category of HEC recognized journals due to its rigorous review process from international referees.

• **Projects (i) Completed**

- DLIS completed (Nov. 2012-April 2013) the project of Directory of Public Libraries with the collaboration of Punjab Library Foundation, Lahore. Dr. Kanwal Ameen & Khalid Mahmood was the member and Dr. Nosheen Fatima Warraich was the coordinator of this project.

• **Publications**

Research Papers Published

Prof. Dr. Kanwal Ameen

- Ameen, Kanwal. (2013). The Barriers in Producing High Quality Library and Information Science Research in Developing Countries: The case of Pakistan. *Journal of Scholarly Publishing*, 44 (3).
- Ameen, Kanwal. (2013). The need and impact of learning “Personality Development & Communication Skills” in LIS Education: A case study. *Malaysian Journal of Library and Information Science*, 18(1), 15-25.
- Ameen, Kanwal & Midrarullah. (2013). Challenges of getting faculty status: perception of university librarians in Pakistan. *International Information and Library Review*, Available at <http://dx.doi.org/10.1016/j.iilr.2013.06.001>
- Ullah, Midrar, Ameen, Kanwal, & Bakhtar, S. (2012). Professional activities, needed competencies and training needs of medical librarians in Pakistan. *Education for Information*, 28(2-4), 115-123.
- Warraich, F. Nosheen, & Ameen, Kanwal. (2012). Employment and learning outcomes of LIS Graduates: A case of Pakistan. *Education for Information*, 28(2-4), 315-324.

Prof. Dr. Khalid Mahmood

- Shah, S.R. & K. Mahmood (2013). Empirical results of academic librarians’ attitudes toward knowledge management in Pakistan. *Library Management* 34 (8/9).
- Mahmood, K. (2013). Relationship of students’ perceived information literacy skills with personal and academic variables. *Libri: International Journal of Libraries and Information Services*, 63 (3).
- Mirza, M.S. & Mahmood, K. (2013). Impact of IT on human resources of Pakistani university libraries, *Library Philosophy and Practice (LPP)*, 1-13.



- Malik, A., & Mahmood, K. (2013). Readiness for digital reference service (DRS) in university libraries A survey in the Punjab, Pakistan. *Information Development*,
- Malik, A., & Mahmood, K. (2013). Infrastructure needed for digital reference service (DRS) in university libraries: An exploratory survey in the Punjab, Pakistan. *Library Review*, 62(6/7), 7-7.
- Shafique, F. & Mahmood, K. (2013). Administration of Education Enterprise and Gaps in the Provision of Needed Information: The Case of Pakistan, *The Journal of Academic Librarianship*.
- Mahmood, K. & Richardson, J.V. (2013). Impact of Web 2.0 technologies on academic libraries: A survey of ARL libraries, *The Electronic Library*, 31 (4), 508-520
- Shah, S.R. & K. Mahmood (2013). Knowledge-sharing behavior in dairy sector of Pakistan. *Library Philosophy and Practice (LPP)*
- Khan, M.T. & Mahmood, K. (2013). A comparison of MLIS curricula taught in Pakistani library and information science schools with Higher Education Commission curriculum. *Library Philosophy and Practice (LPP)*
- Naseer, M.M. & Mahmood, K. (2013). Bibliographic control of LIS literature in Pakistan, *Pakistan Library and Information Science Journal*, 44 (1), 4-12.
- Awan, M.U. & Mahmood, K. (2013). Development of a service quality model for academic libraries. *Quality & Quantity*, 47 (2), 1093-1103.
- Mirza, M.S. & Mahmood, K. (2012). Electronic resources and services in Pakistani university libraries: A survey of users' satisfaction. *The International Information & Library Review*, 44 (3), 123-131
- Rehman, A.U., Mahmood, K & Bhatti, R. (2012). Free and Open Source Software Movement in LIS Profession in Pakistan. *Library Philosophy and Practice*
- Iqbal, A., Mahmood, K. & Arif, M. (2012). Information needs and seeking behavior of medical researchers in Pakistan: A survey, *Pakistan Library and Information Science Journal*, 43 (3).
- Shafique, F. & Mahmood, K. (2013). Scanning the Information Infrastructure of Pakistan: A Step Towards the Development of a National Educational Information System. *Library Review*, 61 (7).

Prof. Dr. Mumtaz A. Anwar

- Naveed, M.A. Anwar, M.A. (2013). Agricultural information needs of Pakistani farmers. *Malaysian Journal of Library & Information Science*, 18(3) (IF)

Dr. Shafiq Ur Rehman

- Rehman, S. U. (2013). Service Quality Assessment in University Libraries of Pakistan. *Canadian Journal of Information and Library Science*, 37(1), 59-80.
- Rehman, S. U., & Sabir, M. (2012). Do Pakistani Users Differ on Library Service Quality? *Bulletin of Education and Research*, 34(1), 19-42. Retrieved from http://www.pu.edu.pk/images/journal/ier/PDF-FILES/2_Shafiq%20&%20Munawar_v_34_No1_2012.pdf



Amara Malik

- Malik, A., & Mahmood, K. (2013). Readiness for digital reference service (DRS) in university libraries A survey in the Punjab, Pakistan. Information Development. (IF)
- Malik, A., & Mahmood, K. (2013). Infrastructure needed for digital reference service (DRS) in university libraries: An exploratory survey in the Punjab, Pakistan. Library Review, 62(6/7), 7-7.

Books Published

- Hussain, A. & Mahmood, K. (2012). Digital libraries: Perception of LIS professionals in Pakistan. Saarbrücken, Germany: LAMBERT Academic Publishing

Book Chapters

- Ameen, Kanwal. 2013. Status of Library and Information Services Marketing in Pakistan: A Profile. In Dinesh K Gupta, Ed. Marketing Library Services: Global Outlook. IFLA
- Ameen, Kanwal. (2012). Library & Communication Technology Developments in Pakistan: An Overview: In Sharma, Ravindra N., ed. Libraries in the early 21st century: An international perspective, Vol 2. IFLA Headquarters: DE GRUYTER SAUR.
- Ullah, M. & Mahmood, K. (2012). Pakistan Library and Information Council: A proposal, IGI Publishing.

● **Conferences, Seminars & Workshops etc.**

- The Department of Library and Information Science organized a workshop on 'Personal Knowledge Management' for research students and faculty on January 15, 2013.

As Invited Speaker

Dr. Kanwal Ameen

- Prof. Kanwal Ameen was guest speaker and gave an oral presentation on "Best Practices in Public Libraries" at a seminar on Role of Public Libraries organized by Punjab Library Foundation on 29th August, 2013.
- Prof. Kanwal Ameen was invited resource person at a Seminar on 'Reviewing and Citing Literature' organized by the Institute of Social and Cultural Studies on 26th March, 2013
- Prof. Kanwal Ameen was Guest Speaker at a "Seminar on Marketing of Library Services @ the Information age" organized by Pakistan Library Club and Goethe Institute, Karachi on 30th January, 2013. She gave presentation on "Changing landscape, netscape and mindscape: Marketing does matter for LIS Professionals"
- Prof. Kanwal Ameen organized a workshop on 'Managerial Leadership in LIS' for PhD students held at the DLIS on March 20-21, 2013.
- Arshad, A., & Ameen, K. (2013, 25th July). Use and Non Use of Scholarly E-Journals by Academics of University of the Punjab. Paper presented at ifutures 2013 Conference on The Next 50 Years, University of Sheffield, United Kingdom.



- Warraich, N.F. & Ameen, K. (2013, 5th July). Presented a paper titled “Human Resource Management in University Libraries: An Appraisal” at 8th three days National LIS Conference on “Emerging Trends in Library and Information Science” organized by Department of Library and Information Science and Central Library, University of Peshawa, July 07-09, 2013, Bara Gali Summer Campus of the University of Peshawar.

Dr. Nosheen Fatima Warraich

- Dr. Nosheen Fatima Warraich presented paper titled “Need of Institutional Repositories in Archiving Indigenous Scholarly Literature: A Developing Country Perspective” in 5th International Conference on Qualitative and Quantitative Methods in Libraries, 4 -7 June 2013, La Sapienza Rome-Italy
- Dr. Nosheen Fatima Warraich presented paper titled “The Future of Quiescent Public Library System: A Developing Country Prospective” in Asia and Oceania session of World Library and Information Congress, 79th IFLA General Conference and Assembly on “Future Libraries: Infinite Possibilities” 17-23 August 2013, Singapore. <http://conference.ifla.org/ifla79/session-150>
- Dr. Nosheen Fatima Warraich and Syeda Hina Batool delivered lectures on “Research, publication and information management” in PU faculty orientation program on 4th July, 2013 at Institute of Administrative Sciences, University of the Punjab.
- Presented a paper and chaired sessions at 8th Three days National LIS Conference on “Emerging Trends in Library and Information Science” organized by Department of Library and Information Science and Central Library, University of Peshawa, July 07-09, 2013, Bara Gali Summer Campus of the University of Peshawar.
- Dr. Nosheen Fatima Warraich was invited at Department of Psychology Effective web searching & Use of electronic resources on 23rd May 2013.
- Dr. Nosheen Fatima Warraich was delivered lecture on three day seminar at Institute of Communication Studies to deliver lecture on “Searching e-sources & writing literature review” for research students on 10th September 2013.

Dr. Shafiq Ur Rehman

- Rehman, S. U. (2013). Knowledge Sharing Practices among Research Students: An Investigation of Pakistani Students in France. Paper presented in three day National LIS Conference on Emerging Trends in Library and Information Science , July 07-09, 2013, Bara Gali Summer Campus of the University of Peshawar.
- Dr. Shafiq Ur Rehman, Assistant Professor delivered a lecture on Endnote Software to the faculty members and research scholars of Institute of Culture and Social Studies, University of the Punjab.



- Dr. Shafiq Ur Rehman and Syeda Hina Batool introduced Nvivo software in a lecture, delivered on 27th May, 2013 at Computer Lab. DLIS, University of the Punjab. Both faculty members introduced peers with the use of this software in their literature review and analysis of qualitative data.
- Dr. Shafiq Ur Rehman delivered a lecture a special lecture at Hailey College of Banking and Finance, University of the Punjab on searching information resources related to Banking and Finance and Risk Management for their MBA Students on June 10, 2013
- Dr. Shafiq Ur Rehman was resources person in one day workshop on EndNote Software for PU Psychology Department on June 5, 2013
- Dr. Shafiq Ur Rehman was resources person in one day workshop on EndNote Software for PU Psychology Department on June 5, 2013.

Syeda Hina Batool

- Syeda Hina Batool delivered a lecture on free reference manager software “MENDELEY” to the faculty members on 15th April, 2013 at Computer Lab. DLIS, University of the Punjab. This software can help the researchers in their literature review and citing sources.
- Dr. Muhammad Shafiq and Syeda Hina Batool introduced Nvivo software in a lecture, delivered on 27th May, 2013 at Computer Lab. DLIS, University of the Punjab. Both faculty members introduced peers with the use of this software in their literature review and analysis of qualitative data.
- Dr. Nosheen Fatima Warraich and Syeda Hina Batool delivered lectures on “Research, publication and information management” in PU faculty orientation program on 4th July, 2013 at Institute of Administrative Sciences, University of the Punjab.

Alia Arshad

- Arshad, A., & Ameen, K. (2013, 25th July). Use and Non Use of Scholarly E-Journals by Academics of University of the Punjab. Paper presented at ifutures 2013 Conference on The Next 50 Years, University of Sheffield, United Kingdom.

● **Research Journals**

- Pakistan Journal of Library and Information Science, HEC recognized annual journal regularly published with annual frequency.

RESEARCH COLLABORATION

● **Funding Grants for R&D**

- Dr. Nosheen Fatima Warraich avail HEC travel grant to present paper in 5th International Conference on Qualitative and Quantitative Methods in Libraries, 4 -7 June 2013, La Sapienza Rome-Italy.



- Dr. Nosheen Fatima Warraich got “IFLA WLIC 2013 – Sponsorship for delegates of developing countries” and “Speaker Funding Support of IFLA Regional Standing Committee for Asia and Oceania” from Sticing Foundation to attend World Library and Information Congress, 79th IFLA General Conference and Assembly 17-23 August 2013, Singapore (Not availed due to visa).
- The University of Sheffield, UK approved research grant for Syeda Hina Batool to present a conference paper at European Conference on Information Literacy 2013 to be held at Turkey from 22-25th October, 2013.

INSTITUTE OF ADMINISTRATIVE SCIENCES

• Publications

Sr. No.	Name of Author	Title of Paper	Name of Journal/Conference	Date
1.	Prof. Dr. Nasira Jabeen, Prof. Dr. Zafar Iqbal Jadoon, Prof. Dr. Abu Rashid Jafri	Public Administration in South Asia:India, Bangladesh, and Pakistan		2013
2.	Dr. Aamir Saeed	Hospital Autonomy Reforms in Pakistan and the politics of meanings 2013		2013
3.	Dr. Aamir Saeed	Making Sense of Federalism in Pakistan 2013		2013
4.	Dr. Aamir Saeed	Understanding Policy Making and Implementation in Pakistan 2013		2013
5.	Jadoon, Muhammad Zafar Iqbal, Jabeen, Nasira, Aisha Rizwan	Governance and Management of Public Sector Organizations of Pakistan	Research Project with COBRA – HEC funded	2012
6.	Prof. Dr. Nasira Jabeen	Role of Board in Governance and Management of Third sector in Pakistan	P.U. Research Project	2012- 2013
7.	Dr. Aamir Saeed	Identifying the key stress-factor resulting from the experience of Hospitals in Punjab and measuring their impact on Job related behavior and performance among Doctors, Administrators and Nurses.	P.U. Research Project	2012- 2013
8.	Dr. Javed Nayyar	TQM methodology for the quality improvement of the Institute of Administrative Sciences (IAS) University of the Punjab	P.U. Research Project	2012- 2013
9.	Ms. Sabeen Imran Ahmad	Dynamics of Diversity Management and equality in Public sector organizations of Pakistan	P.U. Research Project	2012- 2013



Sr. No.	Name of Author	Title of Paper	Name of Journal/Conference	Date
10.	Ms. Zahra Ishtiaq Paul	Effectiveness of Human Resource Management practices and perceived Organizational Support: A case study of Punjab University Teachers	P.U. Research Project	2012-2013
11.	Ms. Saba Nasir	Policy Transfer and Regulatory development in Pakistan	P.U. Research Project	2012-2013

INSTITUTE OF BUSINESS ADMINISTRATION

- **Projects (ii) Newly Launched**

- “Antecedents and Consequences of Internal Branch Equity; A Case Study of Pakistan”, a project of 2012-2013, approved for financial assistance from the University of the Punjab by Dr. Mubbsher Munawar Khan, Associate Professor-IBA.
- “Validation of the concept of Vitality at Work its relationship with resistance to change in telecommunication sector in Pakistan”, a project of 2012-2013, approved for financial assistance from the University of the Punjab by Dr. Sania Zahra Malik, Assistant Professor-IBA.
- “Adoption and Diffusion of Information Systems in Higher Education Institutions in Pakistan”, a project of 2012-2013, approved for financial assistance from the University of the Punjab by Mr. Zeshan Ahmer, Lecturer -IBA.

- **Publications**

- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M M, & Iqbal, H. K. (2012). Leadership and Personality Traits as Determinants of Organizational Citizenship Behaviour (OCB) in Banking Sector of Pakistan. World Applied Sciences Journal 20(8): 1152-1158. AUSTRALIA Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Afzal, M., Begum, I., Sarwar K. & Fatima H. (2012). Relationship among Education, Poverty and Economic Growth in Pakistan: An Econometric Analysis. Journal of Elementary Education 22(1): 23-45. PAKISTAN (Recognized Y Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Munir, Y., Ahmad, S., Saleem, S. & Akbar, Z. (2013). Empirical Investigation of Indicators of Organizational Learning: Evidence from Water and Power Development Authority (WAPDA) Pakistan, Far East Journal of Psychology and Business, 10(1), 25-32 HONG KONG. (Recognized “Y” Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Y., Javaid, B., Arshad, A., Nawaz, R. & Nazir, S. (2013). Empirical Investigation of Ethical Leadership, Job Turnover, Job Satisfaction, Organizational



- Commitment, and Organizational Citizenship Behavior, Far East Journal of Psychology and Business, 10(2), 12-20 HONG KONG. (Recognized “Y” Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Khan M.A, Akash, R. S. I., & Ibrar, M. (2013). Testing the Day of the Week Effect in Emerging and Transitional Equity Market (Empirical Evidence from Stock Returns of Karachi Stock Exchange, Pakistan), European Journal of Social Sciences, 36(4), 487-492. SEYCHELLES (Recognized “Y” Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M. M., Ashar, M., Arooje & Anum. (2013). The Impact of Training Perceptions on Employee Attitudes. American Journal of Scientific Research (87): 164-173. SEYCHELLES Thomson & ISI Indexed, (Recognized X Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M. M., Iqbal, H. K., Riaz, U., Hassan, N., Mustafa, M. & Shahbaz S. (2013). Importance of Brand Awareness and Brand Loyalty in assessing Purchase Intentions of Consumer. International Journal of Business and Social Science 4(5): 167-171. UNITED STATE OF AMERICA (Recognized “Y” Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M. M & Iqbal, H. K (2013). Impact of Job Overload and Work Schedule Flexibility on Job Satisfaction: An Insight in Education and Banking Sector of Pakistan. International Review of Social Sciences and Humanities 5(1): 38-47. INDIA (Recognized “Y” Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M M, & Iqbal, H. K., Ali, Q., Hunbal H., Noman M., Ahmad, B. (2013). Impact of Brand Image and Advertisement on Consumer Buying Behavior. World Applied Sciences Journal 23(1): 117-122. AUSTRALIA Thomson & ISI Indexed, (Recognized X Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Idrees, A. (2013). Developing Pharmaceutical Sales Force Collective Psychological Capital through Group Authentic Leadership. American Journal of Scientific Research (91): 69-78. SEYCHELLES Thomson & ISI Indexed, (Recognized X Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Munawar, M. (2013). Role of Integrated Marketing Communication in Customer Satisfaction and Brand Trust. American Journal of Scientific Research (91): 79-87. SEYCHELLES Thomson & ISI Indexed, (Recognized X Category by HEC).
 - Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Munawar, M. (2013). Impact of Integrated Marketing Communication on Brand Loyalty: Brand Image As Mediator. European Journal of Scientific Research (108): 303-310. SEYCHELLES (Recognized Y Category by HEC).
 - Dr. Mubbsher Munawar Khan, & Masood, H.T (2013). Conceptualizing Motivational Factors of Educationists. Business and Management Research 2(2): 88-95 CANADA.



- **Conferences, Seminars & Workshops etc.**

- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in Global Conference on “Innovations in Management & Doctoral Symposium” organized by Centre for Innovations in Business & Management Practices (CIBMP) held at University of East London, London, UK from November 22 – 24, 2012.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Scientific Session in International Conference on “Applied Psychology” jointly organized by Department of Applied Psychology, University of the Punjab, Lahore Pakistan and Psychology Subcommittee of HEC’s CDSSHP held at University of the Punjab, Lahore Pakistan from December 15 - 19, 2012.
- Prof. Dr. Muhammad Ehsan Malik participated in “Global Forum on Islamic Finance: New Realities, New Challenges” organized by COMSATS Institute of Information Technology (CIIT) in associations with Lancaster University, United Kingdom held at Pearl Continental Hotel Lahore, Pakistan from March 11 to 13, 2013.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Technical Session in the Conference on “Bio-Physicochemical Basis Technopreneurship” jointly organized by Institute of Business Administration (IBA) and Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore held at Al-Razi Hall, Undergraduate Block, University of the Punjab from April 2 to 3, 2013.
- Institute of Business Administration (IBA) and Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore jointly organized a Conference on “Bio-Physicochemical Basis Technopreneurship” held at Al-Razi Hall, Undergraduate Block, University of the Punjab from April 2 to 3, 2013.
- Prof. Dr. Muhammad Ehsan Malik delivered a lecture on the topic “Building a Brand” & Management” in the Conference on “Bio-Physicochemical Basis Technopreneurship” jointly organized by Institute of Business Administration (IBA) and Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore at held Al-Razi Hall, Undergraduate Block, University of the Punjab on April 2, 2013.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in the 2013 International Academic Conference organized by International Institute of Social and Economics Sciences (IISES) in Hotel Royal Continental, Naples, Italy on September 16-19, 2013.
- Dr. Sania Zahra Malik attended and presented a paper on “Validating the concept of Vitality at Work” in the British Academy of Management Conference (BAM 2013) held at Liverpool, United Kingdoms (UK) on September 10-12, 2013.



INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY

- Different faculty members were involved in publications in HEC recognized journals. During the said period 18 research papers and 8 books were contributed by the faculty members of IBIT.

Papers Published	Books Published
24	19

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

- **Publications**

Dr. Humara Bano

- Paper published on “Transition from school to work place: A Model for inclusion of persons with intellectual disabilities in the financial sector of the society” in HEC recognized Journal “New Horizons, Vol.6, No.2, 2012, ISSN 1992-4399, Pp.25-34, University of Greenwich, Karachi.
- Paper published on “Provision of Special Education Needs for Hearing Impaired Children” In Pakistan Journal of Special Education, Vol. 13, 2013. ISSN 1818-2860. Pp.131-138, University of Karachi.

International Presentations

- Presented a paper on “Challenges faced by teachers of inclusive schools in a adapting students evaluation” at 3rd International Conference on Bossiness Management held from February 27-28, 2013 at UMT, Lahore.
- Presented a paper on “A study of curriculum review taught to children with mental retardation in inclusion” at 3rd International Conference on Bossiness Management held from February 27-28, 2013 at UMT, Lahore.
- Presented a paper on “Development of Speech Language Plans for Children with Hearing Impairment in a School Setting” as co-author 3rd International Conference on Bossiness Management held from February 27-28, 2013 at UMT, Lahore.
- Presented a paper on “Challenges faced by students with hearing impairment at Higher Education” as co-author at 3rd International Conference on Bossiness Management held from February 27-28, 2013 at UMT, Lahore.

Dr. Hina Fazil (Paper published)

- Shaista, N. Hina, F. & Nasir, S. (2012). Level of job satisfaction in principals of Special schools of Karachi, Pakistan. ijcrb.webs.com interdisciplinary journal of contemporary research in business copy right © 2012 institute of interdisciplinary business research 566 . 2012 Vol 4, no. 3, pp.566-581



- Hameed, A. & Hina, F. (2012). Sustainable quality education for children with disabilities in Pakistan. SAARC Journal of Educational Research, National Institute of Research Sri Lanka, Vol.9, pp.14-24
- Hina, F. Shaista, N. & Nasir, S. (2012). Pre- and Post Tests Results of Teaching Learning Resource Package Applied on Children with Autism. iamure.com IAMURE multidisciplinary research. Vol 4, No.1
- Ghulam, F. Hina, F., Misbah, M., M.M.Saeed, A., Iqra, A. & Sumaira. (2012). Perceptions of Speech and Language therapists about integration of technology in to speech and language therapy of children with mental retardation. Journal of Educational Research. Vol. 15, No.1 Department of Education. IUB

National Level

- Paper presented on Islamic concepts in the curriculum of students with mental retardation: curriculum ethics conference on Spirituality, ethic and freedom held from 18 to 20 February, 2013 organized by the Post graduate college Chona Mandi, Lahore
- Presented a paper on “Educational problems faced by students with hearing impairment in the University of the Punjab in an international conference on education entrepreneurship and business held on 26th to 27th February 2013 organized by University of Management and technology, Lahore
- Presented a paper on Curriculum Adaptations for Students with Hearing Impairment in an international conference on education entrepreneurship and business held on 26th to 27th February 2013 organized by University of Management and technology, Lahore
- Paper presented on Differential Achievements of Students with Autism in Reading, Writing and Numeracy in 3rd post graduate conference on education in Pakistan held on 27th March, 2013 organized by the IER PU.
- Paper presented on Perceptions of school administrators about the facilities available in schools for children with autism in Pakistan in 2nd post graduate conference on education in Pakistan held on 29th November, 2012 organized by the IER PU.
- Paper presented on Perceptions of Speech and Language therapists about integration of technology in to speech and language therapy of children with mental retardation in 2nd post graduate conference on education in Pakistan held on 29th November, 2012 organized by the IER PU.

Dr. Rukhsana Bashir (Paper Published)

- Published a paper titled “ Special Education and Deaf Children in Pakistan: An Overview” in Journal of Elementary Education, December 2012, Vol. 22, No. 2, pp xx-xx 2013 Department of Elementary Education, University of the Punjab, Lahore.



Paper Presented

- Presented a paper on “Challenges faced by students with hearing impairment in higher education” in 3rd International Conference on Business Management 2013; Setting agenda for Inclusive Education on February 28, 2013 organized by University of Management and Technology, Lahore
- Presented a paper on “Educational problems faced by students with hearing impairment studying in the University of the Punjab” in 3rd International Conference on Business Management 2013; Setting agenda for Inclusive Education on February 28, 2013 organized by University of Management and Technology, Lahore
- Presented a paper on “Curriculum Adaptation made by the teachers of children with hearing impairment at secondary level ” in 3rd International Conference on Business Management 2013; Setting agenda for Inclusive Education on February 28, 2013 organized by University of Management and Technology, Lahore
- Presented a paper on “Islamic concepts in the curriculum of students with mental retardation: Curriculum ethics” in International Multidisciplinary Conference on Ethics, Spirituality and Freedom by Govt. on February 19, 2013 organized by Fatima Jinnah Post Graduate College for Women, Chuna Mandi, Lahore –Pakistan.
- Presented a paper on “Differential achievement of Students with Autism in Reading, Writing and Numeracy” in 3rd Post Graduate Students Conference March 27, 2013 organized by the Institute of Education & Research, University of the Punjab, Lahore.
- Presented a paper on “Perceptions of School Administrators about available Services available for Children with Autism in Pakistan” in 2nd Post Graduate Students Conference November 29, 2012 organized by the Institute of Education & Research, University of the Punjab, Lahore.

Mrs. Ghulam Fatima (Publications)

- Published a paper titled “Problems faced by students with hearing impairment in inclusive education at university level” in Journal of Research & Reflections in Education, December 2012, Vol. 6, No. 2, pp 134-143. University of Education, Lahore.
- Published a paper titled “A study of life goals of persons with visual impairment” in Pakistan Journal of Special Education, Vol. 13, 2012, pp 1-17. Department of Special Education, University of Karachi, Pakistan.
- Published a paper in a peer reviewed proceedings on “A Study of Physical and Professional Services Available for Students with Special Needs in Government Special Education Centers of the Punjab Province” of 3rd Post Graduate Students Conference 2013 with theme Build Better Pakistan through Educational Research on Wednesday, March 27, 2013 organized by Institute of Education & Research, University of the Punjab, Lahore.



- Published a paper in a peer reviewed proceedings on “A Survey of Facilities and Services Available for Special Need Students in Universities of Lahore City” in 3rd Post Graduate Students Conference 2013 with theme Build Better Pakistan through Educational Research on Wednesday, March 27, 2013 organized by Institute of Education & Research, University of the Punjab, Lahore.
- Published a paper title “Perceptions of speech- language therapists about integration of technology into speech language therapy of children with hearing impairment” in Journal of Educational Research Vol. 15, Issue. 1, 2012 Islamia University, Bahawalpur.
- **Conferences, Seminars & Workshops etc.**

Dr. Humara Bano

- Arranged a one day seminar as In charge Seminars on “Success Stories of Persons with Visual Impairment” in celebration of International White Cane Safety Day on 15th October, 2012 organized by Department of Special Education, University of the Punjab, Lahore.
- Arranged a seminar in celebration of “Iqbal Day” on 9th November, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Prof. Dr. Aurangzeb Alamgir (Additional Registrar, University of the Punjab, Lahore) was the Chief Guest.
- Arranged a one day seminar as In charge Seminars on “Empowering persons with disabilities: Success Stories in celebration of International Day of Persons with Disabilities on 3rd December, 2012 organized by Department of Special Education at Waheed Shahid Hall, Institute of Education & Research, University of the Punjab, Lahore.

Participation at University Level

- Attended a seminar on “Iqbal aur Aaj ka Pakistan” on 8th November, 2012 presided by Prof. Dr. Mujahid Kamran, Vice-Chancellor, and University of the Punjab. Mr. Aneeq Ahmad (Anchor person & Intellectual) was the keynote speaker.
- Attended a seminar on “Removing Barriers to create an Inclusive and Accessible Society for all” on 12th December 2012 organized by Government College University, Lahore.
- Attended one day seminar on Nov 8, 2012 in celebration of Iqbal Day at Al-Razi Hall, Undergraduate Block, Quaid-e-Azam Campus, Punjab University, Lahore. Mr. Laeeq Ahmad was Key Note Speaker.
- Attended one day seminar on “Information Technology for Persons with Disabilities” on 15th October in celebration of white cane safety day, at University of Management and Technology, organized by UMT.
- Attended a seminar on the topic “Defense Status of Pakistan” in celebration of Pakistan Defense Day on September 6, 2012 at Al-Raazi Hall, Undergraduate Block, Quaid-e-Azam Campus, Punjab University Lahore.



- Attended International Conference of Applied Psychology (ICAPP) 2012, organized by Department of Applied Psychology, University of the Punjab, Lahore from 15th – 19th December, 2012.
- Attended and participated in a National Seminar on “SOPs for the role of Psychologist in Special School” organized by University of Management & Technology held on 02.10.2012.

Attended and Presented at National Level

- Attended and presented a paper on “Dimensions of problems like population/types of Disabilities, Assessment, Prevention, Education and Awareness in Pakistan Scenario, in National Conference arranged by HHRD, on Comprehensive Rehabilitation & Employment of Persons with Disabilities (PWDs) on 28th Nov. 2012 at Aiwan-i-Quaid, Nazria Pakistan Council (Trust) Building, F-9 Park, Islamabad.
- Attended and presented a paper on “Student’s Preference for the Teachers Characteristics and Traits in Character Building of Students with Special Needs” in 2nd Post Graduate National Conference by IER< University of the Punjab, Lahore.
- Attended two days National workshop on “Pakistan International Inspiration: Curriculum Development” and presented a paper on “Sports Inspiration and Curriculum for Special Needs” on 11.10.2012 at Pearl Continent Hotel organized by British Council, Lahore.
- Attended “5th National Task Force meeting to implement EFAVI campaign” as foal person at Dreamland Motel, Club road, Islamabad on 20.09.2012 organized by Council of Community Development (CCD), Rawalpindi.
- Deliver two lectures on “Strategies to manage activities for Children with Hearing Impairment” and “Co-curricular activities and its preparation for Children with Hearing Impairment” in a 6 days workshop on Inclusive education at Govt. in-service teachers training college for the disables on 16.11.2012 in a series of National workshops on inclusive education from 12.11.2012 to 17.11.2012.

Dr. Hina Fazil

- Attended “A Two Day Workshop on Academic Writing & Research” from 26-27 February, 2013 organized by Institute of Education & Research, University of the Punjab, Lahore.
- Attended a one day seminar on “Role of media in promoting inclusive education in March 19, 2013 organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a seminar on “The role of psychologists in Special Education” on 2nd October, 2012 organized by University of Management and Technology, Lahore.
- Attended and participated two days work shop on Teaching children with AUTISM: ABLLES held on 27th & 28th December 2012 at UMT
- Attended a seminar on “Policy Analysis” on 22nd October, 2012 organized by University of Management and Technology, Lahore. Mr. Shaghan Sharif was the keynote speaker.



- Attended a seminar on “Iqbal aur Aaj ka Pakistan” on 8th November, 2012 presided by Prof. Dr. Mujahid Kamran, Vice Chancellor, and University of the Punjab. Mr. Aneeq Ahmad (Anchor person & Intellectual) was the keynote speaker.
- Attended a one day seminar on “Success Stories of Persons with Visual Impairment” in celebration of International White Cane Safety Day on 15th October, 2012 organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a seminar in celebration of “Iqbal Day” on 9th November, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Prof. Dr. Aurangzeb Alamgir (Additional Registrar, University of the Punjab) was the Chief Guest.
- Attended a one day consultative workshop on “Development of an Advocacy & Training Module/ Toolkit on Inclusive Education on December 22, 2012 organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a one day seminar on “Empowering persons with disabilities: Success Stories in celebration of International Day of Persons with Disabilities on 3rd December, 2012 organized by Department of Special Education at Waheed Shaheed Hall, Institute of Education & Research, University of the Punjab, Lahore..
- Attended one day seminar on Nov, 8 2012 in celebration of Iqbal day at Al-Razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. Mr. Laeeq Ahmad was Key Note speaker.
- Attended one day seminar on information technology for persons with disabilities on October 15, 2012 in celebration of white cane safety day, at University of Management and Technology, organized by the UMT.

Dr. Rukhsana Bashir

- Attended “A Two Day Workshop on Academic Writing & Research” from 26-27 February, 2013 organized by Institute of Education & Research, University of the Punjab, Lahore.
- Attended a one day seminar on “Role of media in promoting inclusive education in March 19, 2013 organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a one day consultative workshop on “Development of an Advocacy & Training Module/ Toolkit on Inclusive Education on December 22, 2012 organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a one day seminar on “Role of media in promoting inclusive education in 19th March, 2013 organized by Department of Special Education, University of the Punjab, Lahore. Mr. Wani, Secretary Special Education Punjab was the keynote speaker
- Attended and participated two days work shop on Teaching children with AUTISM: ABLLES held on 27th & 28th December 2012 at UMT



- Attended and participated in a seminar on SOPs for the role of psychologist in special school organized by University of Management and Technology held on 2 October, 2012.
- Attended a seminar on “Policy Analysis” on 22nd October, 2012 organized by University of Management and Technology, Lahore. Mr. Shaghan Sharif was the keynote speaker.
- Attended a seminar on “Iqbal aur Aaj ka Pakistan” on 8th November, 2012 presided by Prof. Dr. Mujahid Kamran, Vice Chancellor, and University of the Punjab. Mr. Aneeq Ahmad (Anchor person & Intellectual) was the keynote speaker.
- Attended a one day seminar on “Success Stories of Persons with Visual Impairment” in celebration of International White Cane Safety Day on 15th October, 2012 organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a seminar in celebration of “Iqbal Day” on 9th November, 2012 organized by Department of Special Education, University of the Punjab, Lahore. Prof. Dr. Aurangzeb Alamgir (Additional Registrar, University of the Punjab) was the Chief Guest.
- Attended a one day seminar on “Empowering persons with disabilities: Success Stories in celebration of International Day of Persons with Disabilities on 3rd December, 2012 organized by Department of Special Education at Waheed Shaheed Hall, Institute of Education & Research, University of the Punjab, Lahore.
- Attended a seminar on “Removing Barriers to create an Inclusive and accessible society for all” on 12th December, 2012 organized by Government College University, Lahore.
- Attended one day seminar on Nov, 8 2012 in celebration of Iqbal day at Al-razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. Mr. Laeeq Ahmad was Key Note speaker.
- Attended one day seminar on information technology for persons with disabilities on 15th October in celebration of white cane safety day, at University of Management and Technology, organized by the UMT.

Dr. Samina Ashraf

- Attended a conference an international conference on Ethics, Spirituality and Freedom on February,18-20,2013 held at Government Chuna Mandi college, Lahore.
- Attended one day seminar on Nov,8 2012 in celebration of Iqbal day at Al-razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. Mr. Laeeq Ahmad was Key Note speaker.
- Attended a seminar on white cane safety day on 15 October 2012, organized by the department of special education.



- Attended a one day seminar on information technology for persons with disabilities on 15th October in celebration of white cane safety day, at University of Management and Technology, organized by the UMT.
- Attended a one day seminar on role of psychologists in special education on October, 2, 2012 ,organized by University of Management and Technology, Lahore
- Attended a seminar on the topic Nine eleven and world war three September,11, 2012 at Al-Razi Hall Undergraduate block, Quaid-a-Azam campus ,Punjab University Lahore. The worthy Vice Chancellor, Prof. Dr. Mujahid Kamran was Key Note speaker.
- Attended a seminar on the topic Defense status of Pakistan in celebration of Pakistan defense day on September,6 2012 at Al-razi Hall Undergraduate Block, Quaid-a-Azam campus ,Punjab University Lahore.

Mrs. Ghulam Fatima

- Attended a seminar on “The role of psychologists in Special Education” on 2nd October, 2012 organized by University of Management and Technology, Lahore.
- Attended a seminar on “Policy Analysis” on 22nd October, 2012 organized by University of Management and Technology, Lahore. Mr. Shaghan Sharif was the keynote speaker.
- Attended a seminar on “Iqbal aur Aajka Pakistan” on 8th November, 2012 presided by Prof. Dr. Mujahid Kamran, Vice Chancellor, and University of the Punjab. Mr. Aneeq Ahmad (Anchor person & Intellectual) was the keynote speaker.
- Attended a one day consultative workshop on “Development of an Advocacy & Training Module/ Toolkit on Inclusive Education organized by Department of Special Education, University of the Punjab, Lahore.
- Attended a pre-conference workshop on “Developing Cultural Sensitivity and Self-Awareness for Effective Therapeutic Communication” on Saturday, 15th December, 2012 organized by Department of Applied Psychology, University of the Punjab, Lahore. The Resource Persons were Dr. Urusa Fahim, Assistant Professor at California Institute of Integral Studies, San Francisco, USA and Dr. Iram Bokharey, Senior Clinical Psychologist, Department of Psychiatry, Services Hospital, Lahore Pakistan.
- Attended a post-conference workshop on “ Application of NVivo Software for Qualitative Data Analysis relating to Industrial & Organizational Psychology” on Wednesday, 19th December, 2012 organized by Department of Applied Psychology, University of the Punjab, Lahore. Mr. Rab Nawaz Lodhi, Bahria University Islamabad, Pakistan was the Resource Person of the workshop.
- Attended “A Two Day Workshop on Academic Writing & Research” from 26-27 February, 2013 organized by Institute of Education & Research, University of the Punjab, Lahore.



INSTITUTE OF EDUCATION & RESEARCH

• Projects (i) Completed (ii) Newly Launched

Name of Researcher/ Sponsoring Agency	Title of Research Project	Status
USAID Teacher Education Project	A Study of Gaps between Beliefs and Practices of Teacher Education in B.Ed (Hons) and ADE Classrooms in Universities and Affiliated Colleges in Punjab	Completed
University of the Punjab	Relationship of Curricular Demands with academic self regulation and academic excellence in students' performance in Higher Education	In progress
University of the Punjab	Impact of Cooperative Learning Intervention on Students' Achievement and logical reasoning	In progress
DFID-HEC	Development of Minimum Quality Standards (MQS) for colleges in Pakistan	In progress
University of the Punjab	Investigating the students' understanding of science concepts using concept cartoons	In progress
USAID Teacher Education Project	Study of challenges and opportunities faced by prospective teachers during teaching practice: Connecting theory and practice	Completed
University of the Punjab	A Study to Explore the Influence of SMS (Short Message Service) Language on Academic Writing of Students at Post-Graduate Level.	In progress
USAID Teacher Education Project	Development of Reflective Practitioners: A Case of New B.Ed (Hons) Classroom.	Completed
University of the Punjab	Investigating the Students' Understanding of Science Concepts using Concept Cartoons.	In progress

• Publications

Sr. No.	Name of Author	Title of Paper/Article
1	Prof. Dr. Mumtaz Akhter	Situation Analysis of Institutional Policies for Teacher Educators and Prospective Teacher, International Journal of Humanities and Social Science Vol. 2 No. 24, Special Issue-December 2012 USA.
2	Dr. Mumtaz Akhter (2012)	Concept of School Experience Programme Among Teachers for Quality Enhancement in Teacher Education. Journal of Research and Reflections in Education Vol. 6 (1).
3	Dr. Muhammad Saeed	Adaptive clothing for females with arthritis impairment, Journal of University Medical & Dental College (JUMDC), Vol. 3(2), 2012.
4	Dr. Muhammad Saeed	Comparative Evaluation of Internal Efficiency of Teacher Education Institutions in Pakistan, International Researchers, Vol. No.



Sr. No.	Name of Author	Title of Paper/Article
5	Dr. Muhammad Saeed	Problems in Public Sector Universities of Punjab Views of Ph.D Scholars, International Researchers, Vol. No. 1(3), 2012
6	Dr. Tariq Mahmood Khan	The Study of Aid Dependency and External debt on Pakistan's Economy, Pakistan Economic and Social Review Vol. 20 No. 10
7	Dr. Tariq Mahmood Khan	Pupils Idea in Learning Concept of the Chemical Bonding among Pakistani students. International Journal of Applied Science and Technology, Vol. 2, No. 6
8	Dr. Tariq Mahmood Khan	Intellectual Death, International Journal of Social Science, Vol. 3, No. 2.
9	Dr. Tariq Mahmood Khan & Dr. Ahmad Sher Awan	Validation of Sequential Problem Test (SPT) for Identification of the Children with Specific Learning Difficulties Journal of Educational and Developmental Psychology; Vol. 3, No. 1.
10	Dr. Ahmad Sher Awan & Dr. Tariq Mahmood Khan	Gender Disparity in Misconceptions about the Concept of Solution at Secondary Level Students in Pakistan. Journal of Elementary Education.Vol.22, No. 1
11	Dr. Ahmad Sher Awan & Dr. Tariq Mahmood Khan	Entrepreneurial Intentions among University students of Punjab a Province of Pakistan. International Journal of Humanities and Social Science. Vol. 2 No. 14 Special Issue.
12	Dr. Ahmad Sher Awan & Dr. Tariq Mahmood Khan	An Empirical study of Family back ground and Entrepreneurship as Career selection among University Students of Turkey and Pakistan. International Journal of Business and Social Science Vol. 3 No. 15.
13	Dr. Ahmad Sher Awan & Dr. Tariq Mahmood Khan	Pupils' Ideas in Learning Concept of the Chemical Bonding among Pakistani Students. International Journal of Applied Science and Technology. Vol. 2 No. 6.
14	Dr. Shaukat Ali Raza & Dr. Fouzia Naheed Khawaja	Faculty Development Needs as Perceived by Department Heads, Teachers, and Students of Pakistani Universities. Literacy Information and Computer Education Journal (LICEJ). 4(1) 2013.
15	Dr. Shaukat Ali Raza	Faculty Development Programme for Universities of Pakistan. E-Book ISBN-13: 978-3-659-26592-1, Lambert Academic Publishing (LAP) 18-12-2012
16	Mr. Tariq Hussain	"Impact of Formative Assessment on Academic Achievement of Secondary School Students" International Journal of Business and Social Science Vol. 3 No. 17.
17	Mr. Tariq Hussain	Impact of Co-curricular Activities on Personality Development of Secondary School Students" International Journal of Humanities and Social Science Vol. 2 No. (18).
18	Mr. Tariq Hussain	"Decentralization and Educational Institutional Development-A Case study from Pakistan" International Journal of Humanities and Social Science Vol. 2 (22) Special Issue.



Sr. No.	Name of Author	Title of Paper/Article
19	Mr. Tariq Hussain	"Analysis of Grade Three Students Performance in the Subject of English in Pakistan" American International Journal of Contemporary Research. Vol 2 (11).
20.	Dr. Muhammad Shahid Farooq	An inclusive Schooling Model for the Prevention of Dropout in Primary Schools in Pakistan. Bulletin of Education and Research ,35(I),
21	Dr. Muhammad Shahid Farooq	Recognition or Rebuff? Inclusion of Students with Special Education Needs in Ordinary Schools in Pakistan. Journal of Educational and Social Research Vol:2 pp:73-91(With Hassan, M. U & Parveen, I.)
22.	Dr. Muhammad Shahid Farooq	Opinion of second language learners about writing difficulties in English language. South Asian Studies, A Research Journal of South Asian Studies. Vol. 27, No. 1, pp.183-194 (With Hassan, M. U., & Wahid, S.)
23.	Dr. Muhammad Shahid Farooq	Problems faced by special students in ordinary schools: A case of Pakistan. Journal of Quality and Technology Management. VIII(I).
24.	Dr. Muhammad Shahid Farooq	Statistical training in social sciences through e-learning. Journal of Educational and Social Research. 2 (2), pp:45-53. (With Régnier, J.C & Pradeau, A)
25	Dr. Mahr Muhammad Saeed Akhtar	Conflict Management Styles implemented by the administrators in the public sector universities of Punjab, Pakistan (A jointly authored paper) Scottish Journal of Arts, Social Sciences and Scientific Studies (UK)
26	Dr. Mahr Muhammad Saeed Akhtar	A Comparison of the Perceptions of Secondary School Teachers' Satisfaction about their Jobs. (A jointly authored paper) Journal of Humanities and Social Sciences (USA)
26	Dr. Mahr Muhammad Saeed Akhtar	Development of Scale to Assess Effective Execution of Human Resource Practices for General Public Sector Universities. (A Jointly authored paper) International Journal of Applied Science and Technology (USA)
27.	Dr. Mahr Muhammad Saeed Akhtar	Quranic Instructions for Teaching to Hazoor (SAW)* Monthly Aamozgar, Bhawani Peth Jalgaon, (India)
28.	Dr. Mahr Muhammad Saeed Akhtar	Qiam e Pakistan main Anjuman e Himayate Islam as a think tank (A Jointly authored paper)** Al Qalam
29.	Dr. Mahr Muhammad Saeed Akhtar	Decision Making Styles of University Leadership (A jointly authored paper) The Dialogue: A Quarterly Research Journal
30.	Dr. Mahr Muhammad Saeed Akhtar	Relationship between Organizational Commitment and Job Satisfaction of Teachers Serving as Subject Specialists at Higher Secondary Schools in Khyber Pakhtunkhwa, Pakistan (A Jointly authored paper) The Dialogue: A Quarterly Research Journal



Sr. No.	Name of Author	Title of Paper/Article
31.	Dr. Mahr Muhammad Saeed Akhtar	Relationship between Morale and Job Satisfaction of Subject Specialists Teaching in Higher Secondary Schools of Khyber Pakhtunkhwa, Pakistan (A Jointly authored paper) The Dialogue: A Quarterly Research Journal
32.	Dr. Mahr Muhammad Saeed Akhtar	Perceptions of Speech Language Therapists about Integration of Technology into Speech and Language Therapy of Children with Mental Retardation. (A Jointly authored paper) Journal of Educational Research, Islamia University Bahawalpur
33.	Dr. Mahr Muhammad Saeed Akhtar	Problems Faced by Students with Hearing Impairment in Inclusive Education at the University Level (A jointly authored paper Journal of Research and Reflections in Education (Print), University of Education, Lahore
34.	Dr. Mahr Muhammad Saeed Akhtar	Issues of Universities' Governance in Pakistan (Principal author of a jointly authored paper.) Journal of Elementary Education, University of the Punjab, Lahore
35.	Dr. Mahr Muhammad Saeed Akhtar	The Motivation Level of Trained Male and Female Teachers at Higher Education Level in Pakistan: A Comparative Study. (A jointly authored paper) The Dialogue (Quarterly Research Journal), Qurtaba University, Peshawar
36.	Dr. Mahr Muhammad Saeed Akhtar	Cutting edge of Islam on other Education Systems (A Jointly authored paper) Al Adwa Research Journal, University of the Punjab
37.	Dr. Mahr Muhammad Saeed Akhtar	Job Satisfaction of Secondary School Teachers (A Jointly authored paper) Abasyn Journal of Social Sciences

• **Conferences, Seminars & Workshops etc.**

Attended

- Prof. Dr. Mumtaz Akhtar Participated in workshop on Teaching of Social Science 2 (Geography & History) at AKU-IED, Karachi from 18-09-2012 to 22-09-2012.
- Prof. Dr. Mahr Saeed Akhtar Participated in Workshop on Research Methods in Education & Research Project at AKU-IED, Karachi from 15-09-2012 to 18-09-2012.
- Ms. Aroona Hashmi participated and worked as organizer in 2nd Post Graduate Students Conference 2012 on " Education in Pakistan: Trends of 21st Century" organized by organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on November 29, 2012.
- Ms. Mubashira Khatoon participated and worked as organizer in 2nd Post Graduate Students Conference 2012 on " Education in Pakistan: Trends of 21st Century" organized by organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on November 29, 2012.



- Dr. Rafaqat Ali Akbar participated and worked as organizer in 2nd Post Graduate Students Conference 2012 on “ Education in Pakistan: Trends of 21st Century” organized by organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on November 29, 2012.
- Dr. Muhammad Amir Hashmi participated in Twentieth International Conference Learning and present paper entitled “The Effectiveness of Modern Teaching Technologies and Evaluating Technology’s Role in Secondary School from 10-07-2013 to 13-07-2013 in Rhodes, Greece.
- Dr. Muhammad Amir Hashmi participated in Intellect base International Consortium Academic Conference and present oral paper entitled “Need for Training and Development in the Banking Industry as Perceived by Employees from April 11-13, 2013 in San Antonio. USA.
- Dr. Muhammad Sahihd Farooq participated and present paper in 3rd International Conference of E-Learning and Distance Learning: From Practice to performance from February 4-7, 2013, Riyadh, Saudi Arabia.
- Ms. Tayyaba M. Akram participated in 2nd Post Graduate Students Conference 2012 on “ Education in Pakistan: Trends of 21st Century” organized by organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on November 29, 2012.
- Ms. Tayyaba M. Akram participated in Training on “Exploring Human Excellence: Neuro Linguistics Programming (NLP)”, Organized by TIMS, Affiliated with Jenani GMBH, Germany, May 17-19- 2013.
- Ms. Tayyaba M. Akram participated in Training on “Exploring Human Excellence: Forth Dimension”, Organized by TIMS, Affiliated with Jenani GMBH, Germany April 14, 2013.
- Ms. Tayyaba M. Akram participated in Training on “Exploring Human Excellence: Money Mind”, Organized by TIMS, Affiliated with Jenani GMBH, Germany, March 16, 2013.
- Ms. Tayyaba M. Akram participated in 3rd Post Graduate Students Conference 2013 on “Building Better Pakistan through Educational Research” organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on March 27, 2013.
- Ms. Tayyaba M. Akram participated in 2nd Post Graduate Students Conference 2012 on “ Education in Pakistan: Trends of 21st Century” organized by organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on November 29, 2012.
- Ms. Tayyab M. Akram participated in one day workshop on “Impact of Higher Education in the Social Adjustment of Women in Islamic Perspective in Pakistan” organized by Institute of Education and Research, Kohat University of Science & Technology, Kohat in Collaborating with higher Education Commission, Pakistan November 30, 2012.



- Ms. Afshan Mumtaz participated in one day workshop on “Impact of Higher Education in the Social Adjustment of Women in Islamic Perspective in Pakistan” organized by Institute of Education and Research, Kohat University of Science & Technology, Kohat in Collaborating with higher Education Commission, Pakistan November 30, 2012.
- Ms. Afshan Mumtaz participated in 3rd Post Graduate Students Conference 2013 on “Building Better Pakistan through Educational Research” organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on March 27, 2013.
- Ms. Afshan Mumtaz participated in 2nd Post Graduate Students Conference 2012 on “Education in Pakistan: Trends of 21st Century” organized by organized by Student Affairs Committee, Institute of Education and Research, University of the Punjab, on November 29, 2012.
- Mr. Tariq Hussain, Participated in “Islam and environment Conference II (IEC II)” held on 24th November, 2012 organized by NFEER
- Mr. Tariq Hussain, Participated 2nd Post Graduated Students Conference 2012 on Education in Pakistan: Trends of 21st Century held on 29-11-2012 at IER, University of the Punjab, Lahore.
- Dr. Rafaqat Ali Akbar, participated and worked as organizer 2nd Post Graduated Students Conference 2012 on Education in Pakistan: Trends of 21st Century held on 29-11-2012 at IER, University of the Punjab, Lahore.
- Ms. Mubashira Khatoon, participated and worked as organizer 2nd Post Graduated Students Conference 2012 on Education in Pakistan: Trends of 21st Century held on 29-11-2012 at IER, University of the Punjab, Lahore.
- Ms. Aroona Hashmi, participated and worked as organizer 2nd Post Graduated Students Conference 2012 on Education in Pakistan: Trends of 21st Century held on 29-11-2012 at IER, University of the Punjab, Lahore.
- Dr. Ahmad Sher Awan, Assistant Professor, IER participated and present paper entitled “Effectiveness of Constructivist Approach for Promoting Conceptual Change in Chemistry in 2nd International STEM in Education Conference”, being organized by Faculty of Education, Beijing Normal University, Beijing China from 23-11-2012 to 01-12-2012.
- Prof. Dr. Mumtaz Akhter participated in 3rd National Research Seminar held on 14-16, January 2013 at Lahore being organized by USAID Teacher Education Project, Punjab, Lahore.
- Dr. Muhammad Aboidullah participated in 3rd National Research Seminar held on 14-16, January 2013 at Lahore being organized by USAID Teacher Education Project, Punjab, Lahore
- Prof. Dr. Abid Hussain Ch. participated in 3rd National Research Seminar held on 14-16, January 2013 at Lahore being organized by USAID Teacher Education Project, Punjab, Lahore
- Prof. Dr. Rafaqat Ali Akbar, participated in 3rd National Research Seminar held on 14-16, January 2013 at Lahore being organized by USAID Teacher Education Project, Punjab, Lahore



- Prof. Dr. Rafaqat Ali Akbar, participated in Practicum 2 Training Workshop held on 24-27 June, 2013 at Lahore, being organized by USAID Teacher Education Project, Punjab, Lahore
- Dr. Shafiq-ur-Rehman, participated in Practicum 2 Training Workshop held on 24-27 June, 2013 at Lahore, being organized by USAID Teacher Education Project, Punjab, Lahore
- Prof. Dr. Mumtaz Akhter, Participated in three days workshop on Implementation of strategic Plan March 19-21 2013 at Lahore being organized by USAID Teacher Education Project, Islamabad.
- Prof. Dr. Abid Hussain Ch., Participated in three days workshop on Implementation of strategic Plan March 19-21 2013 at Lahore being organized by USAID Teacher Education Project, Islamabad.
- Prof. Dr. Rafaqat Ali Akbar, Participated in three days workshop on Implementation of Strategic Plan, March 19-21, 2013 at Lahore being organized by USAID Teacher Education Project, Islamabad.
- Prof. Dr. Rizwan Akram Rana, Participated in three days workshop on Implementation of strategic Plan March 19-21 2013 at Lahore being organized by USAID Teacher Education Project, Islamabad.
- Prof. Dr. Mumtaz Akhter, Participated in Workshop on Teaching Social Science 2 (Geography & History) September 18-22 2012 at Karachi being organized by USAID Teacher Education Project, Islamabad.
- Prof. Dr. Mumtaz Akhter, Participated in Workshop on Teaching Social Science 2 (Geography & History) September 18-22 2013 at Karachi being organized by USAID Teacher Education Project, Islamabad.
- Prof. Dr. Mumtaz Akhter, Participated in National Interchange on Teacher Education Reforms and Their Implications on March 22, 2013 at Islamabad being organized by USAID Teacher Education Project, Islamabad.
- Ms. Mubashira Khatoon, Participated in National Interchange on Teacher Education Reforms and Their Implications on March 22, 2013 at Islamabad being organized by USAID Teacher Education Project, Islamabad.
- Dr. Abid Hussain Ch. Professor, IER, participated and presented paper in International Conference entitled “International Academic Conference on Social Sciences (ICASS)” from 27-07-2013 to 28-07-2013 at ELITE World Hotel Istanbul, Turkey.
- Dr. Muhammad Amir Hashmi, Assistant Professor, participated and presented paper entitled “The Effectiveness of Learning Teaching Technologies and Evaluating Technology’s Role in Secondary Schools” in Twentieth International Conference on Learning on held 11-07-2013-13-07-2013 in Rhodes, Greece.



- Mr. Abdul Majid Khan Rana, Lecturer IER participated in an international conference entitled “4th International Conference on Education & Educational Psychology” being organized by Cognitive – Counseling, Research & Conference Services, from October 02 to 05, 2013 in Antalya Turkey.
- Dr. Muhammad Shahid Farooq participated in one day workshop on Development of an Advocacy and Training Module/Toolkit on Inclusive Education organized by UNESCO and Department of Special Education, University of the Punjab at Lahore on November 21, 2012.
- Dr. Muhammad Shahid Farooq participated in Three days workshop on Implementation and Professional Development Workshop organized by Pre STEP USAID at Marriott Hotel Islamabad on March 11-13, 2013.
- Dr. Muhammad Shahid Farooq participated in Four days workshop on Development of Teaching Learning Resources (TLRs) organized by Institute of Education and Research, University of the Punjab on September 16-19, 2013.
- Dr. Muhammad Shahid Farooq participated in Presented a keynote speech in one-day seminar on The Role of Psychologists in Special Schools organized by Department of Special Needs Education, University of Management and Technology, Lahore on October 2, 2012
- Dr. Muhammad Shahid Farooq participated in Participated in one-day seminar on Empowering Persons with Disabilities: Success Stories organized by Department of Special Education, University of the Punjab Lahore on December 30, 2012.
- Dr. Muhammad Shahid Farooq, Paper presented in The Third International Conference with the theme e-learning and Distance Learning: From Practice to Performance entitled Computer Technology Skills Used by Student-Teachers in Open and Distance Learning: Implications for Teacher Education in ODL at Riyadh, Kingdom of Saudi Arabia on February 3-6, 2013.
- Dr. Muhammad Shahid Farooq, Paper presented in 3rd International Conference on Business Management (ICoBM) with the theme Entrepreneurship, Competitiveness, and Academia entitled Inclusive Education as a Tool for Dropout Prevention in Punjab at University of Management and Technology Lahore, Pakistan on February 27-28, 2013.
- Dr. Muhammad Shahid Farooq Paper presented in a National Conference with the Theme Education Conference: Teacher Recruitment, Preparation, and Policy entitled Student Teacher Interaction of Prospective Teachers' And Academic Success at University of Karachi, Pakistan on August 20-21, 2013.
- Dr. Rizwan Akram Rana, Dr. Muhammad Saeed and Ms. Aroan Hashmi participated as resource person in Education conference and presented paper on ‘Developing reflective practitioners: A case of new B.Ed (Hons) classroom organized by “Teacher recruitment, preparation and policy” organized by USAID Teacher Education Project in Karachi August 20-21, 2013.



- Dr. Rafaqat Ali Akbar and Dr. Muhammad Aboidullah, participated as resource person in Education conference and presented paper on “A Study of Gaps between Beliefs and Practices of Teacher Education in B.Ed (Hons) and ADE Classrooms in Universities and Affiliated Colleges in Punjab” organized by USAID Teacher Education Project in Karachi August 20-21, 2013.
- Dr. Nasir Mahmood, participated as resource person in Education conference and presented paper on “Development of Reflective Practitioners: A Case of New B.Ed (Hons) Classroom” organized by USAID Teacher Education Project in Karachi August 20-21, 2013.
- Dr. Rizwan Akram Rana, participated in Special meeting of National Curriculum Review Committee (NCRC) to review and develop implementation plans for the key recommendations suggested by NCRC in Islamabad from July 13, 2013.
- Dr. Rizwan Akram Rana, participated in Special meeting of National Curriculum Review Committee (NCRC) to review and develop implementation plans for the key recommendations suggested by October 2009 NCRC in Islamabad from June 21-22, 2013.
- Dr. Rizwan Akram Rana, participated as expert for the course “Teaching Science”. in Fifth meeting of National Curriculum Review Committee (NCRC) for the review of B. Ed (Hons)/ year 4 courses organized by HEC & USAID Teacher Education Project in Lahore from April 24-25, 2013.
- Dr. Rizwan Akram Rana, Participated as Expert in Test Development and Evaluation Curriculum design workshop on Test Development and Evaluation organized by USAID Teacher Education Project in Lahore March 06-08, 2013.
- Dr. Rizwan Akram Rana, Participated as Principal investigator of IER Research Team 1 3rd National Research Seminar Organized by USAID Teacher Education Project in Lahore from January 14-16, 2013.
- Dr. Rizwan Akram Rana, Participated as expert for the course “Foundations of Education & Curriculum Development” Fourth meeting of National Curriculum Review Committee (NCRC) for the review of B. Ed (Hons) / year 4 courses organized by HEC & USAID Teacher Education Project in Lahore from January 11-12, 2013
- Dr. Rizwan Akram Rana, Participated as Expert in Test Development and Evaluation Curriculum design workshop on Test Development and Evaluation organized by USAID Teacher Education Project in Karachi from November 12-16, 2012.
- Dr. Mahr Muhammad Saeed Akhtar, Presented Paper on “Gender and Age differences in Conflict Resolution Strategies used by Department Heads in Universities” In R. McBride & M. Searson (Eds.), Proceedings of Society for Information Technology & Teacher Education International Conference 2013 (pp. 1386-1394). Chesapeake, VA: AACE.



- Dr. Mahr Muhammad Saeed Akhtar presented paper on “A Study to Assess the Undergraduate University Students’ Academic Adjustment” presented in the 3rd Post-graduate student conference 2013 on Build Better Pakistan through Educational Research on 27 March 2013.
- Dr. Mahr Muhammad Saeed Akhtar A Jointly Authored Paper on “Difficulties encountered by Students with Visual Impairment in Inclusive Higher Education” was presented in the 3rd International Conference of University of Management and Technology, Lahore held on February 27-28, 2013
- Dr. Mahr Muhammad Saeed Akhtar, presented paper on “Effect of governmental notification of up gradation of special education teachers on job satisfaction of teachers of children with mental retardation” was presented in International Conference of Applied Psychology (ICAPP) 2012 organized by Department of Applied Psychology, University of the Punjab, Lahore on 15-19, December
- Dr. Mahr Muhammad Saeed Akhtar, presented paper on “Perceptions of Speech Language Therapists about Integration of Technology into Speech and Language Therapy of Children with Mental Retardation” presented in the 2nd Post-graduate student conference 2012 on Education in Pakistan: Trends of 21st Century on 29 November 2012.
- Dr. Mahr Muhammad Saeed Akhtar, presented paper on “A Comparative Study of Social Skills Development of the Students of the Institute of education and Research” presented in the 2nd Post-graduate student conference 2012 on Education in Pakistan: Trends of 21st Century on 29 November 2012
- Dr. Mahr Muhammad Saeed Akhtar, presented paper presented in the 2nd Multidisciplinary Conference held on 24-25 September 2012, titled “Problems Faced by Students with Hearing Impairment Inclusive Education at the Postgraduate level at Sarhad University of Science & Technology, Peshawar and Higher Education Commission, Islamabad.

Conferences/Workshops/Seminars Organized by IER

- 2nd Post Graduate Students Conference 2012 on “Education in Pakistan: Trends of 21st Century” on 29th November, 2012 Organized by Students Affairs Committee, Institute of Education & Research, University of the Punjab, Lahore, Pakistan.
- 3rd Post Graduate Students Conference 2013 on “Build Better Pakistan Through Educational Research” on 23rd March, 2013 Organized by Students Affairs Committee, Institute of Education & Research, University of the Punjab, Lahore, Pakistan.
- 4th Post Graduate Students Conference 2013 on “Comparative Education: Needs and Trends in 21st Century” on 28 August, 2013 Organized by Students Affairs Committee, Institute of Education & Research, University of the Punjab, Lahore, Pakistan.



Conference to be Organized by IER

- Institute of Education and Research will organize “2nd International Conference on Research in Education (ICORE 14), to be held on March 18-20, 2014. This conference will be a great opportunity to researchers, teacher educators, teachers, social scientists and professionals around the world for presentation of research based knowledge, experiences, new advancements, research results and innovations in the field of education.

Workshop/Seminar Organized by IER

- Workshop on Teaching Literacy Professional Development Institute from 18-21 September, 2012 at IER, University of the Punjab, Lahore.
- Workshop on Academic Research and Writing Two Days Participatory Workshop for Academic Researchers on 26th and 27th February, 2013.

● **Research Journals**

- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 35. No. 2, 2012.
- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 36. No. 1, 2013.
- Bulletin of Education and Research (BER), Institute of Education and Research, University of the Punjab Lahore Volume 36. No. 3, 2012. Special Issue

RESEARCH COLLABORATION

● **Foreign Linkages**

- International Linkage with Beijing Normal University, China
 - Prof. Dr. Mumtaz Akhter, visited Beijing China to explore Institutional Linkage between Beijing Normal University (BNU), Beijing, China and Institute of Educational and Research, University of the Punjab.

Faculty of Engineering & Technology

CENTRE FOR COAL TECHNOLOGY

● **Research & Development – An Overview**

- The Centre was established in 2003 to provide trained manpower for utilization of huge coal deposits available in Pakistan in order to achieve self-reliance in the energy sector. Research activities remain continue throughout the year by mutual coordination of the faculty and students. 14 students have completed their research thesis under the supervision of senior faculty teachers. Moreover Director, Centre for coal technology participated in the Panel of experts for Punjab Power Development Board (Government of the Punjab) for the technical auditing of coal fired power plants that are to be installed in Punjab. About 300 samples of coal



were tested at the Centre for coal technology and results has been used in the estimation of coal reserves of salt range and trans indus range by M/s SNOWDEN, an australian consulting firm hired by Punjab Govt. for the estimation of coal deposits of Punjab. Director, Centre for coal technology participated in meetings with M/s SNOWDEN and Punjab Govt. officials to discuss various issues.

- **Projects (i) Completed**

- Effect of ph on floatability of chamalang coal using anionic and nonionic collectors
- Upgradation of khushab coal by using hms (heavy media separation) process
- Studies on strength of cement / fly ash; cement / fly ash / sand and cement / sand building blocks
- Effect of moisture of coal on hardgrove grindability index of high moisture afghan coal
- Effect of coal blending on hardgrove grindability index
- Study of thermal behavior of indigenious & imported coals using tga
- Effect of moisture of coal on hardgrove grindability index of low moisture afghan coal
- Cleaning of dukki (baluchistan) coal by agglomeration process
- Cleaning of lakhra coal by agglomeration process using diesel oil

- **(ii) Newly Launched**

- Upgradation of chamalang coal by froth flotation using oleic acid
- Agglomeration of Duki coal using organic solvents, n-hexane, n-heptane and xylene
- Upgradation of chamalang coal by froth flotation using kerosene oil
- Effect of temperature on gasification of local coal
- Flue gas analysis for combustion of coal biomass blended pellets
- Treatment of industrial wastewater from pharmaceuticals, paper and textile using coal ash
- Agglomeration of local coal using vegetable oils, olive oil, soybean oil
- Combustion properties of local coal using thermo gravimetric analysis (TGA)
- Briquetting of coal using tar, and asphalt binders

- **Publications**

- Zahoor, M.K., Akhtar, J., Haris, M. (2013). Phase behavior and compositional analysis of hydrocarbon: Part 1, Methodologies and Primary Interpretation. Journal of PIChE, Vol. 41(1)
- Zahoor, M.K., Akhtar, J., Haris, M. (2013). Phase behavior and compositional analysis of hydrocarbon: Part 2, Algorithm Development and Case Studies. Journal of PIChE, Vol. 41(1)
- Akhtar, J., Amin NAS., Saleem Y., (2013) Removal of sulfamethoxazole using catalytic ozonation: An optimization study Journal of Pakistan Institute of Chemical Engineers Vol. 41 (1) 2013.
- Shahzad, K., Saleem, M., Khan, W.A., Awan, N., Akhtar, N.A. (2012). Parametric Study of NOx Emissions in Circulating Fluidized Bed Combustor, Journal of PIChE, Vol. 40(1), pp-61-68.



- Khan, W.A., Shahzad, K., Ghauri, M., Saleem, M., Akhtar, N.A. (2012) Axial Heat Transfer Investigations in a Circulating Fluidized Bed Combustor Burning Makarwal Coal, Science International (Lahore), Vol. 24(4), pp-153-157.
- Ghauri M., Tahir, M., Abbas, T., Shahzad, K., (2012). Adsorption Studies for the Removal of Ammonia by Thermally Activated Carbon, Science International (Lahore), Vol. 24(4), pp-443-446.
- Rahim, U., Gao, X., Garcia-Perez, M., Li, Y., Wu, H. (2012). Release of Chlorine during Mallee Bark Pyrolysis. Energy & Fuels. 27(1), pp 310-317
- Shahzad, K., Nawaz, S., Sheikh, N., Akhtar, J., Kanwal, S., Munir, S. (2013). Effects of Moisture and Coal Blending on Hardgrove Grindability Index of Pakistani Coals. International Journal of Coal Preparation and utilization (In Press)
- Nawaz, S., Kanwal, S., Shahzad, K., Sheikh, N., Munir, S. Akhtar, J. (2013) Identification of Macerals in Pakistani Coals. Energy Sources, Part A: Recovery, Utilization and Environmental Effects. (In Press).
- Akhtar, J., Amin NAS., Zahoor, MK., (2013) Optimizing Removal of COD from Water by Catalytic Ozonation of Cephalexin Using Response Surface Methodology, Journal of Chemical Society of Pakistan, (In press)

RESEARCH COLLABORATION

- **Foreign Linkages**

- Director of the Centre, Prof. Dr. Shahid Munir is a co-investigator of the International Strategic Partnership in Research Education (INSPIRE) Programme funded by British Council and Higher Education Commission Pakistan to investigate the co-combustion of Pakistani coal with Pakistani biomass. As a result of the collaboration with University of Leeds and University of Sheffield, an international conference, UK Pakistan Coal Conference was organized in Leeds UK from 3rd-5th July 2012.

- **Funding Grants for R&D**

- University of Punjab, Lahore
- From departmental coal testing earning

DEPARTMENT OF POLYMER ENGINEERING & TECHNOLOGY

- **Research & Development – An Overview**

- Research and development is the backbone of our institute. No institute can groom without working in R & D. The department continues to enjoy significant growth and momentum in research productivity. Faculty submitted approximately eight proposals, more than five active grants and thirteen international research papers have been published. These encouraging research trends reflect active involvement of an increasing number of engineering faculty



members in research and demonstrate the caliber of our faculty members and the success of our strategically focused interdisciplinary research model.

• **Projects (i) Completed**

Sr. No.	Project Name	Duration	Sponsoring agency	Funding (Mill Rs)
Prof. Dr. Tahir Jamil, Chairman				
1.	Establishment of research group for Polymers	01 Year	HEC	1.000
2.	Establishment of Research Laboratories for Polymers Synthesis, Characterization, Rheology and Processing" by HEC.	02 Year	HEC	38.784
3.	Establishment of Industrial Research labs for Polymer and Material Synthesis.	03 Year	HEC	57.850

(ii) New Launched

Sr. No.	Project Name	Duration	Sponsoring agency	Funding (Mill Rs)
Prof. Dr. Tahir Jamil, Chairman				
1.	Upgrading and Strengthening of the Department of Polymer Engineering and Technology, University of the Punjab, Lahore, Pakistan.	02 Years	HEC	90.531 Mill Rs
2.	Upgrading and Strengthening of the Department of Polymer Engineering and Technology, University of the Punjab, Lahore, Pakistan	02 Years	Japan's "Technical Cooperation", "Development Study" And "Grant Aid*" Japan International Cooperating Agency (JICA)	9.289 Mill US \$
3	Synthesis & Characterization of Aluminum Oxide/Cellulose Acetate/PEG Hybrid Membrane for the Separation of CO ₂ from Natural Gas Streams	01 Year	HEC	2.5
Dr. Misbah Sultan, Assistant Professor				
4	Synthesis and characterization of pH sensitive hydrogels/nanofibrous material from biopolymers/carboxymethyl chitosan/chitosan for different controlled drug delivery systems and other biomedical applications	9 months	HEC	0.5
Dr. Atif Islam, Assistant Professor				
5	Synthesis and characterization of conducting polymer-hydrogels from biopolymer (chitosan)/poly(vinyl alcohol) blends for medical electrode applications using impedance spectroscopy		HEC	2.00



Sr. No.	Project Name	Duration	Sponsoring agency	Funding (Mill Rs)
Engr. Shahzad Maqsood Khan, Lecturer				
6	Polymer Composites to be Used for Bio Material and Engineering Applications	One Year	University of the Punjab	0.125
Ms. Aneela Sabir, Lecturer				
7	Textile Wastewater treatment by using Polymeric Membranes	One Year	University of the Punjab	0.125
Engr. Muhammad Shafiq, Lecturer				
8	Removal of Salts from water by using Polymeric Membranes	One Year	University of the Punjab	0.125

- **Publications**

- Enhancement in the tear strength of Cellulose fabrics by Polyurethane Acrylate coating: Physicochemical properties. Misbah Sultan, Haq Nawaz Bhatti, Mohammad Zuber, Mehdi Barikani, Tahir Jamil. Submitted to Polymer International.(2013)
- Biocompatibility and microscopic evaluation of PU-PMMA/ TiO₂-based composites for dental applications. Mohammad Zuber, Shazia Tabasum, Tahir Jamil, Muhammad Shahid, Rizwan Hussain, Khalid Sajjad Feras, Khalid Pervez Bhatti. Submitted to J. appl. Polym. Sci.(2013)
- Molecular engineering of chitin based polyurethane using hydroxyl terminated polybutadiene. Khalid Mahmood Zia, Kashif Mahmood, Mohammad Zuber, Tahir Jamil. Submitted to Carbohydrate Polymers.
- Optimization of compressive strength of gypsum based composites for biomedical applications. Rabia Nazir, Tahir Jamil, Rafiq Ahmad. Submitted to Science and Engineering of Composite Materials. (2013)
- Synthesis and Characterization of Polyaniline/Silicon dioxide (PANI/SiO₂) Composites: Study of Structural, Thermal and Conducting Properties. Farah Kanwal, Theseen Riaz, Saadat Anwar Siddiqi, Aisha Batool, Nafisa Gull, Tahir Jamil. Submitted to Journal of Chemical Sciences.(2013)
- Structure-Property Relationship and Structural Study of Polyurethane-Urea Elastomers. Misbah Sultan, Haq Nawaz Bhatti, Mohammad Zuber, Mehdi Barikani, Tahir Jamil. Accepted in J. Chem. Soc. Pak.(2013). (IF = 1.37)
- Development of Kevlar Supported Novel PP Membranes: Effect of Concentration of Nucleating Agent on the Properties and Performance. Nadeem Iqbal, Faisal Iqbal, Mohammad H. K. Tareen, Taimoor A. Khan, Saad Mehfooz, M. Bilal Khan, Tahir Jamil, Nasir M. Ahmad. Accepted in J. appl. Polym. Sci 2013. (IF = 1.289)



- Chitin based polyurethanes using hydroxyl terminated polybutadiene, Part I: Molecular engineering. Khalid Mahmood Zia, Kashif Mahmood, Mohammad Zuber, Tahir Jamil, Muhammad Shafiq. *International Journal of Biological Macromolecules* 59, 320 (2013). (IF = 2.453)
- Antimicrobial and pilling evaluation of the modified cellulosic fabrics using polyurethane acrylate copolymers. Shazia Tabasum, Mohammad Zuber, Tahir Jamil, Muhammad Shahid, Rizwan Hussain. *International Journal of Biological Macromolecules* 56, 99 (2013). (IF = 2.453)
- Synthesis of polypyrrole/zinc oxide composites and study of their structural, thermal and electrical properties. Aisha Batool, Farah Kanwal, Muhammad Imran, Tahir Jamil, Saadat Anwar Siddiqi. *Synthetic Metals* 161(23–24), 2753 (2012). (IF = 1.829)
- Effect of additives on the properties and performance of cellulose acetate derivative membranes in the separation of isopropanol/water mixtures. Muhammad Zafar, Muddassir Ali, Shahzad Masood Khan, Tahir Jamil, Muhammad Taqi Zahid Butt. *Desalination*, 285(31), 359(2012). (IF = 2.590)
- Modification of cellulosic fabric using polyvinyl alcohol, Part-II: Colorfastness Properties. Mohammad Zuber, Khalid Mahmood Zia, Ijaz Ahmad Bhatti, Tahir Jamil, Fazal-ur-Rehman, Ali Rizwan. *Carbohydrate Polymers*, 87(4, 1), 2439(2012). (IF = 3.628)
- Modification of cellulosic fabric using polyvinyl alcohol, Part-I: Physicochemical properties. Khalid Mahmood Zia, Mohammad Zuber, Ali Rizwan, Tahir Jamil, Shazia Tabasum, Muhammad Shahid *Carbohydrate Polymers*, 87(3, 14), 2063(2012). (IF = 3.628)
- Modification of cellulosic fiber with polyurethane acrylate copolymers. Part I: Physicochemical properties. Misbah Sultan, Khalid Mahmood Zia, Haq Nawaz Bhatti, Tahir Jamil, Rizwan Hussain, Mohammad Zuber. *Carbohydrate Polymers*, 87(1-4), 397(2012). (IF = 3.628)
- Cytotoxicity and mechanical behavior evaluation of chitin-bentonite clay based polyurethane bio-nanocomposites. Khalid Mahmood Zia, Mohammad Zuber, Mehdi Barikani, Rizwan Hussain, Tahir Jamil, Sohail Anjum *International Journal of Biological Macromolecules*, 49 (5-1), 1131(2011). (IF = 2.453)
- Preparation of rich handles soft cellulosic fabric using amino silicone based softener, part II: Colorfastness properties. Mohammad Zuber, Khalid Mahmood Zia, Shazia Tabassum, Tahir Jamil, Syed Barkaat-ul-Hasin, Muhammad Kaleem Khosa, *International Journal of Biological Macromolecules*, 49 (1), 1(2011). (IF = 2.453)
- Influence of glycol additives on the structure and performance of cellulose acetate/zinc oxide blend membranes. Muddassir Ali, Muhammad Zafar, Tahir Jamil, Muhammad Taqi Zahid Butt. *Desalination*, 270 (1-3), 98(2011). (IF = 2.590)
- Preparation of rich handles soft cellulosic fabric using amino silicone based softener. Part-I: Surface smoothness and softness properties. Khalid Mahmood Zia, Shazia Tabassum, Syed



- Barkat-ul-Hussan, Mohammad Zuber, Tahir Jamil, Muhammad Asghar Jamal. International Journal of Biological Macromolecules, 48 (3), 482(2011). (IF = 2.453)
- Synthesis of polypyrrole–ferric oxide (PPY–Fe₂O₃) composites and study of their structural and conducting properties. Farah Kanwal, Saadat Anwar Siddiqi, Aisha Batool, M Imran, Mushtaq Waheed, Tahir Jamil, Synthetic Metals, 161 (3-4), 335(2011). (IF = 1.829)
 - Synthesis and characterization of Polyaniline/wood and Polyaniline/carbon composites Farah Kanwal, Saadat Anwar Siddiqi, Sahar Tasleem, Ghulam Sakina and Tahir Jamil. J. Chem. Soc. Pak 31(6), 882(2009). (IF = 1.37)
 - Synthesis and characterization of Silver Hexacyanoferrate(II)/ Polyaniline composites, Farah Kanwal, Saira Ishaq and Tahir Jamil. J. Chem. Soc. Pak 31(6), 907(2009). (IF = 1.37)
 - Synthesis of Acid Doped Conducting Polyaniline, Farah Kanwal, Atia Gul and Tahir Jamil. J. Chem. Soc. Pak 29(6), 553(2007). (IF = 1.37)
 - Ultrasonic Degradation Studies of Polyacrylates, Farah Kanwal, Richard A. Pethrick and Tahir Jamil. J. Chem. Soc. Pak 29(5), 433(2007). (IF = 1.37)
 - FT-IR Analysis of recycled polystyrene for food packing. Farah Kanwal, S. M. Waraich, and Tahir Jamil. J. Chem. Soc. Pak, 29(3), 239(2007). (IF = 1.37)
 - Interactions between colloidal poly(tetrafluoroethylene) Latex and sodium poly(styrene sulfonate). Tahir Jamil and Paul S. Russo. Langmuir, 14, 264(1998). (IF = 4.186)
 - Light scattering from random coils dispersed in a solution of rodlike polymers. T. Jamil, P. S. Russo, I. Negulescu, W. H. Daly, D. W. Schaefer and G. Beaucage. Macromolecules 27, 171(1994). (IF = 5.167)
 - Dynamic light scattering from a semiflexible polymer at very low concentration. Tahir Jamil and P. S. Russo. J. Chem. Phys 97(4), 2777(1992). (IF = 3.333)
 - Studies of ESR nitroxide probe mobility in polymer blends. Tahir Jamil and A. M. Jamieson. J. Polymer Sci; Polym. Phys. Ed. 27, 2554(1989). (IF = 1.53)
 - Relaxation effects in the gel electrophoresis of DNA in intermittent electric field. Tahir Jamil, H. L. Frisch and L. S. Lerman. Biopolymers 28, 1413(1989). (IF = 2.87)
 - Optical and voltammetric studies on tetraphenylene salts. M. Mohammad, Tariq Mahmood, Tahir Jamil and A. Y. Khan. Collec. Czech. Chem. Commun 53, 61(1988). (IF = 1.28)
 - Diffusion of DNA in gel under a pulsed electric field. Sezar Fesjian, H. L. Frisch and T. Jamil. Biopolymers 25, 1179(1986). (IF = 2.87)
 - Dependence of electrophoretic mobility of DNA in gels on field intermittency. T. Jamil and L. S. Lerman. J. Biomol Stru and Dynam 2(5), 963(1985). (IF = 4.986)
- **Conferences, Seminars & Workshops etc.**
 - Faculty members took active part in presenting and attending national and international conferences



- Presented Technical Presentation in National Seminar on Engineering Materials & Their Performances-2013 jointly organized by College of Engineering & Emerging Technologies (CEET) PU Lhr, Pakistan Institute of Metallurgy & Material Engineers (PIMME) and Material Chapter Punjab University (MCPU) on “Synthesis and Characterization of Polyacrylonitrile (PAN)” in PU Lhr. April 30, 2013
- Presented Technical Presentation in 4th International Conference on Textile and Clothing (ICTC 2013) on the theme of Sustainable Products on Textile Exports jointly organized by Society of Dyes and Colorists (SDC), The Textile institute Lahore, School of Textile & Design (SDT) of University of Management and Technology (UMT) Lahore on “Synthesis and Characterization of Polyacrylonitrile (PAN) for Carbon Fiber” in Lahore Expo Center. March 28-30, 2013

RESEARCH COLLABORATION

- **Indigenous**

- Research collaboration of department with other universities are following:
 - Institute of Chemistry PU Lahore
 - Government College University (GCU) Lahore
 - Government College University (GCU) Faisalabad
 - National University of Sciences and Technology (NUST) Islamabad
 - Plastic Technology Center (PTC) Karachi
 - Quaid-e-Azam University Islamabad
 - Center for Solid State physics PU Lahore.
 - Demont Montessori College of Dentistry Lahore
 - Bahaudin Zakria University (BZU) Multan
 - University of Engineering & Technology (UET) Lahore
- Collaboration with Polymer manufacturing and processing industries
 - Sports industries
 - Paper and pulp industries
 - Paint and Adhesive industries
 - Distilleries/ sugar industries Process industries
 - Membrane separation plants
 - Rubber manufacturing industries
 - Defense organizations
 - Universities and educational institutes
 - Research and Development organizations



- **Funding Grants for R&D**

- 0.375 Mill Rs are granted by University of the Punjab, Lahore.
- 2.5 Mill Rs is granted by Higher Education Commission for research and development of department under IPFP programme.

DEPARTMENT OF TEXTILE ENGINEERING & TECHNOLOGY

- **Conferences, Seminars & Workshops etc.**

- Workshop conducted on “Importance of Global Textile Standards & Compliance Requirements” on 5th April, 2012 in collaboration with Ministry of Textile Industry Government of Pakistan, Textile Testing International (TTI) and University of Management & Technology (UMT), Lahore.
- The Department of Textile Engineering & Technology conducted 2-day workshop on “Boiler Operation and Performance Enhancement” on 2-3 April, 2013.

RESEARCH COLLABORATION

- **Foreign Linkages**

- A 2-member delegate of Japan International Cooperation Agency (JICA) visited Department of Textile Engineering & Technology, its laboratory, library and under - construction building on 18.02.2013. The Department of Textile Engineering & Technology prepared a proposal for technical and financial assistance.

INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY

- **Research & Development – An Overview**

- The institute is engaged in R & D for development of new materials and new processes that are essential for industrial advancement. Strategic areas of focus are (i) energy and sustainability; (ii) Gas Cleaning and Filtration; (iii) Fisher Tropsch Synthesis; (iv) Polymer sciences; and (v) waste water treatment.

- **Projects: Newly Launched**

- The faculty is motivated and facilitated to apply for grants from local and foreign agencies. The details of few of the projects initiated with the help of HEC, University of the Punjab and SNGPL are given below:

Project Title	Funded by	Approved Amount	Approved Date
Hydrocracking of waste Raslics	Higher Education Commission	Rs. 11,266,090/-	19-12-2012
Catalytic Hydrodechlorination of Chlorophenols	Higher Education Commission	Rs. 992,585/-	24-05-2011
Fast Pyrolysis of Agricultural Residues for the production of Bio Oil /Liquid Fuel	Punjab University	Rs. 1.360 million	07-02-2011
Biogas Techno-economic feasibility for the	SNGPL	-----	----



Project Title	Funded by	Approved Amount	Approved Date
production of 5 MMCFD Biogas Plant			
Comparative Study of Black Powder test with the analysis report of Dr. Johon Smart from 36'' Qadir Pur Bhong Pipeline Segment	SNGPL	-----	----
Provision of Technical Specifications, Supplier Details and Mechanism of Iso Kinetic Kit to SNGPL	SNGPL	-----	----
Optimization of the amount of Inhibitor to be injected for protection of Gas Pipeline transmitting gas with high sulphur contents to Engro Power.	SNGPL	-----	----
Elaboration of the route path / process / mechanism of Solid Particles especially clay and Quartz detection in the gas pipe line.	SNGPL	-----	----
calibration of the Gas Meters	SNGPL	-----	----
Testing of improved industrial gas burner in the newly constructed burner in test burner	SNGPL	-----	----
Estimation modeling for calculation of volumetric impact of above ground/underground leakages taking into consideration our field condition.	SNGPL	-----	----
Energy efficiency in small to medium size industry through improvement in design of industrial gas burner.	SNGPL	-----	----

• Publications

The faculty at the Institute is actively engaged in R & D activities and has published their work in national as well as international journals of good repute. The details of publications are given below:

- A. Ijaz, S. M. Irfan, D. M. H. Kee, M. Awan , "Impact of TQM practices on operational performance of Public Hospitals: A study of Public Hospitals in Pakistan", International Symposium on Business and Management (ISBM 2012) Hong Kong
- A. Ijaz, S.M. Irfan, D. M. H. Kee, M. Awan, " Improving operational performance of public hospital in Pakistan: A TQM based approach", World Applied Sciences Journal 19 (6);, 2012, 904-913.
- A. Ijaz, S. M. Irfan, M. M. Farooq , "Patient Satisfaction and Service Quality of Public Hospitals in Pakistan", an Empirical Assessment, Middle-East Journal of Scientific Research 12 (6): 870-877, 2012.
- A. Ijaz, Farhan Aslam, Hakeem-ur-Rehman, S. M. Irfan, " Implementation of Total Quality Management tools and techniques", A case study of fried peanut processing plant, Sci.Int.(Lahore), 24(4),475-486, 2012 ISSN 1013-5316,CODEN: SINTE 8



- A. Ijaz, R. Lodhi, S.M. Irfan, Critical Failure Factors of ERP System: An Exploratory Case Study of an Electric Supply Company in Pakistan “The 10th Asian Academy of Management International Conference 2013 - Operation Research” Penang, Malaysia 2013.
- M. Tahir, M Saleem, N.A. Akhtar, J. R. Khan, M Siebenhofer, “Developing Products and Resource Recovery from Industrial Process Waters and Wastewaters”, 12th AIChE Annual Meeting, Abstract 2013 AIChE
- M. Tahir, M. Suleman; M. Saleem, Gul, Saeed; N. Akhtar; mathias Siebenhofer; Actinometric Determination of UV-Radiation in Wet-Tube Electrostatic Precipitator (WESP) and Degradation of Pollutants From Wastewater 2013 AIChE Annual Meeting, 3-8 November, San Francisco, USA 2013 AIChE
- M. Tahir, M. Suleman; M. Saleem, ; Enhanced Yield of Bio-Gas Production With Modified Thermo-Reactor Configuration and Separation of CO₂ 2013 AIChE Annual Meeting, 3-8 November, San Francisco, USA 2013 AIChE
- M. Saleem, G. Krammer , “On the Stability of Pulse-Jet Regenerated-Bag Filter Operation”, Chemical Engineering & Technology (IF 1.394) 35 (5), 904-910
- M. Saleem., M. S. Tahir, G. Krammer , “Experimental measurement of axial gas flow distribution in pulse-jet bag filter”, 11th World Filtration Congress, Graz, Austria
- M. Saleem, G. Krammer, R. U. Khan, M. S. Tahir , “Influence of operating parameters on cake formation in pilot scale pulse-jet bag filter”, Powder Technology (IF 2.009) 224 (July 2012), 28-35
- M. S. Tahir, M. Saleem, S. R. Malik, J.R. Khan , “UV-radiation in Wet-tube Electrostatic Precipitator (WESP)”, International Conference on Engineering Sciences, Lahore-Pakistan
- M. Saleem, G. Krammer, M.S. Tahir , “Measurement and Simulation of Axial Velocity in a Filter Bag”, Chemical Engineering & Technology (IF 1.394) 35 (00), 1-10
- M. Saleem, G. Krammer, M. Suleman , “Effect of Operating Parameters on Resistance Parameters of Filter Media and Limestone Dust Cake for Uniformly Loaded Needle Felts in a Pilot Scale Test Facility at Ambient Conditions”, Powder Technology(IF 2.009) 228 (September 2012), 100-107.
- A.Shafeeq, Poly (vinyl alcohol): An Economical Substitute to Calcium Lignosulphonate for PVC/PET Separation by Froth Flotation, Asian Journal of Chemistry, Vol.25, No.13(2013) 7509-7512
- H.M.A Asghar, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L Roberts (2013). Potential graphite materials for the synthesis of GICs. Journal of Chemical Engineering communications. Accepted for publication. Impact Factor = 1.052
- H.M.A Asghar, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L Roberts (2013). Electrochemically synthesized GIC-based adsorbents for water treatment using adsorption and electrochemical



- regeneration. Journal of industrial & engineering chemistry. Accepted for publication Impact Factor = 2.145
- H.M.A Asghar, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L Roberts (2013). Environmentally friendly preparation of exfoliated graphite. Journal of industrial and engineering chemistry. Accepted for publication. Doi:10.1016/j.jiec.2013.09.014 Impact Factor = 2.145
 - H.M.A Asghar, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L Roberts (2013). Synthesis of electrically conducting adsorbents for waste-water treatment using adsorption and electrochemical regeneration. Journal of industrial & engineering chemistry. Accepted for publication. Impact Factor = 2.145
 - H.M.A Asghar, S.N. Hussain, E.P.L Roberts N.W. Brown & (2013). Removal of humic acid from water using adsorption coupled-with electrochemical regeneration. Korean Journal of Chemical Engineering DOI:10.1007/SI1814-013-0066-z. Impact Factor = 1.059
 - H.M.A Asghar, S.N. Hussain, & E.P.L Roberts, A.K. Campen & N.W. Brown (2013). Pretreatment of adsorbent for waste water treatment using adsorption coupled with electrochemical regeneration Journal of Industrial & Engineering Chemistry, elsvier publisher. Impact Factor = 2.145
 - S.N. Hussain, H.M.A Asghar, A.K.Campen, N.W. Brown & E.P.L Roberts (2013). Breakdown products formed due to oxidation of adsorbed phenol by electrochemical regeneration of a graphite adsorbent. Electrochimica Acta, Accepted for publication. Impact Factor = 3.777
 - S.N. Hussain, E.P.L. H.M. A. Asghar, A.K. Campen & N.W.Brown (2013). Oxidation of Phenol and the adsorption of breakdown products using a graphite adsorbent with electrochemical regeneration. Electrochimica Acta, Vol 92, PP. 20-30 Impact Factor = 3.777
 - H.M.A Asghar, E.P.L Roberts S.N. Hussain, A.K. Campen, N.W. Brown & (2012). Wastewater treatment by adsorptiongraphite adsorbent with electrochemical regeneration using graphite based adsorbents. Journal of applied Electrochimistry Vol 42 (9), PP. 797-807. Impact Factor = 1.836
 - M. G. Conti-Ransden, H.M.Asghar, S.N. Hussain, E.P.L. Roberts, & N.W.Brown (2013). Removal of mercaptans from a gas stream using continuous adsorption-regeneration. Water Science & technology, Vol 66 (9) PP 1849-1855. Impact Factor = 1.102
 - Arshid M. Ali, Ayaz Muhammad, Amir Shafeeq, Hafiz M.A.Asghar, Syed N. Hussain & Hamid Sattar (2012) Doped Metal Oxide (ZnO) and Photocatalysis: A Review. Journal of Pakistan Institute of Chemical Engineers, Vol 40 (1) PP. 12-22
 - W.A. Khan, M.S. Tahir, K. Shahzad, M. Saleem, NA Akhtar , “Burning of Pakistani (Salt Range) Coal in a Circulating Fluidized Bed and Radial Heat Transfer Investigations”, UK-Pakistan Coal Conference 2012, Leeds, UK, 32



- X. Liu, W Afzal, JM Prausnitz Industrial & Engineering Chemistry Research “Solubilities of small hydrocarbons in tetrabutylphosphonium bis (2, 4, 4-trimethylpentyl) phosphinate and in 1-ethyl-3-methylimidazolium bis (trifluoromethylsulfonyl) imide”
- X. Liu, W Afzal, G Yu, M He, JM Prausnitz The Journal of Physical Chemistry B High solubilities of small hydrocarbons in trihexyl tetradecylphosphonium bis (2, 4, 4-trimethylpentyl) phosphinate Pretreatment of Miscanthus× giganteus using Aqueous Ammonia with Hydrogen Peroxide to Increase Enzymatic Hydrolysis to Sugars
- G. Yu, W Afzal, F Yang, S Padmanabhan, Z Liu, H Xie, MA Shafy, AT Bell, JM. Journal of Chemical Technology and Biotechnology Solubilities of some gases in four imidazolium-based ionic liquids
- W. Afzal, X Liu, JM Prausnitz. The Journal of Chemical Thermodynamics Effect of Water on the Densities and Viscosities of Some Ionic Liquids Containing a Phosphonium Cation
- Yoo, W Afzal, JM Prausnitz Zeitschrift für Physikalische Chemie 227 (2-3), 157-166 Dispersed Phase Holdup in a Tall and Low Plate Free Area Liquid Pulsed Sieve-Plate Extraction Column
- SY. Khawaja, MR Usman, S Khan, W Afzal, NA Akhtar Separation Science and Technology 48 (1), 175-182 Four methods for measuring the solubilities of gases and vapors in liquids and polymers
- W. Afzal, J Prausnitz Bechtel Cahkt- Петбоетепсntetaeyprckoroyhnbep, 16-31 Henry’s constants and activity coefficients of some organic solutes in 1-butyl, 3-methylimidazolium hydrogen sulfate and in 1-methyl, 3 trimethyl silyl methylim idazolium chloride
- B. Yoo, W Afzal, JM Prausnitz The Journal of Chemical Thermodynamics Solubility Parameters for Nine Ionic Liquids
- B. Yoo, W Afzal, JM Prausnitz Industrial & Engineering Chemistry Research 51 (29), 9913-9917 Experimental Study and Phase Equilibrium Modeling of Systems Containing Acid Gas and Glycol
- W. Afzal, MP Breil, I Tsvintzelis, AH Mohammadi, GM Kontogeorgis, D Richon
- Fluid Phase Equilibria Inert-gas stripping method for measuring solubilities of sparingly-soluble gases in liquids. Solubilities of some gases in protic ionic liquid 1-butyl, 3-hydrogen-imidazolium acetate
- W. Afzal, B Yoo, JM Prausnitz Industrial & Engineering Chemistry Research Solubilities of some organic solutes in 1-ethyl-3-methylimidazolium acetate. Chromatographic measurements and predictions from COSMO-RS
- JG. Rosenboom, W Afzal, JM Prausnitz The Journal of Chemical Thermodynamics
- **Research Journals**
 - Following two journals are published by the faculty and institute jointly on annual basis:
 - Journal of Faculty of Engineering and Technology
 - Journal of Pakistan Institute of Chemical Engineers



RESEARCH COLLABORATION

- **Indigenous**
 - Institute has collaboration with SNGPL, PCSIR and other public sector organizations for conducting research projects at graduate and undergraduate level.
- **Foreign Linkages**
 - University has signed a few MOUs with the foreign universities. Recently a MOU has been signed with University Technology Petronas Malaysia.
- **Funding Grants for R&D**
 - Faculty at the institute actively participates in R & D activities. Every year faculty earns significant research grant from Punjab University Research Grant. Recently 08 faculty members got University of the Punjab annual research grant. Three of the faculty members have got research grants from HEC and DAAD.

INSTITUTE OF QUALITY & TECHNOLOGY MANAGEMENT

- **Research & Development – An Overview**
 - 9 Students have completed first term of course work. All the MS TQM thesis supervised in this Institute are checked by Turnitin software before submission.
- **Projects (i) Completed**
 - Dr. Muhammad Usman Awan has successfully completed research project about quality in higher education institutions funded by University of the Punjab.
- **(ii) Newly Launched**
 - Seven Lecturers of the Institute have been awarded research grants by the University of the Punjab.
- **Publications**
 - Asif, M., Awan, M.U., Khan, M.K and Ahmad, N. (2013), “A Model for Total Quality Management in Higher Education”. Quality and Quantity. Vol. 47, No. 4, pp. 1883-1904.
 - Awan, M.U. and Khalid. M. (2013), “Development of Service Quality Model for Academic Libraries”. Quality & Quantity. Vol. 47, No. 2, pp. 1093-1103.
 - Rehman, H., Asif, M., Saeed, M. A., Akbar, M.A. and Awan, M.U. (2012), “Application of Six Sigma at Cell Site Construction: A Case Study”. Asian Journal on Quality, Vol. 13, No. 3, pp. 212-233.
 - Rehman, H., “Implementation of Total Quality Management Tools and Techniques: A Case Study of Fired a Peanut Processing Plant”, Journal of Science International (accepted for publication).
 - Mr. Hakeem-ur-Rehman, Application of Six Sigma at Cell Site Construction: A Case Study, Asian Journal on Quality (Emerald Article).



- **Research Journals**

- Institute publishes two research journals.
 - Journal of Quality & Technology Management is recognized by HEC in category X.
 - Journal “International Journal on Quality & Innovation is published by international published Inter Science.

OFFICE OF RESOURCE, INNOVATION & COMMERCIALIZATION (ORIC)

- **Establishment of ORIC**

- Research Office was established at University of the Punjab from last three decades. In advise and the directive of the Vice Chancellor; as at present, Research Office has now been renamed as “Office of Research Innovation & Commercialization” (ORIC), with effect from January 2011. The Office of Research, Innovation and Commercialization (ORIC) University of the Punjab has been notified by Higher Education Commission (HEC), Islamabad on 01.01.2011.

- **Operation of ORIC**

- A separate Office of Research, Innovation & Commercialization (ORIC) was established at Punjab University to develop, expand, enhance and manage the University’s research programs and to link research activities directly to the educational, social and economic priorities of the university and its broader community. The office is also responsible for assuring that the quality of research reflects the highest international standards of the university among the world’s best research institutions.

- **Functions of ORIC**

- The main aims of Office of Research, Innovation & commercialization (ORIC) are as follows: Identify research grant & create particularly opportunities for faculty to apply. Facilitate faculty to apply for research grants. Legal, administrative and financial management support of research grants. Support commercialization, licensing, etc. of the University research.

- **Activities**



Two days Invention to Innovation Summit held on 9-10th April 2013



ORIC will promote the development of public-private partnerships:-

The main premise of ORIC are:-

- Identify research grant opportunities for faculty to apply.
- Facilitate faculty to apply for research grants.
- Research administration, budgeting and auditing.
- Accounting and human resources management.
- Maintenance of facilities and equipment.
- Implementation of research contracts and human resources.
- Legal, administrative and financial management support of research grants.
- Increase funding for research from all public and private sources.
- Establish and maintain excellent relationships with donors and stakeholders.
- Oversee proposal development and submission.
- Support commercialization, licensing, etc of University research products.

ORIC, Punjab University has played its role in collaborating with various private and government sector organizations to meet one of its prime objectives i.e. building up a strong university-industry linkage.

- ORIC is actively working with Engineering Development Board, Govt. of Pakistan and conducted few sessions with EDB along with their industrial concerns for finding workable solutions for industrial problems. In this context, meeting with the directors of Khawaja Electronics, Mughal Steel, Fibre Craft Industries, Safco Scon (Pvt) Limited was held at Institute of Chemical Engg. & Tech (ICE&T). The faculty of Institute of Chemical Engg. & Tech and Dept. of Metallurgy and Material Sciences proposed workable solutions.
- A meeting of EDB and faculty members of ICE&T along with Director of Centre for Coal Technology, Punjab University was held at ICE&T to explore the opportunities for having small scale Coal Gasification Units as an alternate energy resource. The Director, Centre for Coal Technology promised to provide full support and assistance to EDB in this regard.
- ORIC is also working with Institute of Research Promotions (IRP) and has successfully conducted two Invention to Innovation summit in the last two years. ORIC and IRP are now working very closely on a number of industrial related problems and in this context, several meetings with various industrial concerns have been conducted. A meeting with Technical Manager of Shafi Reso Chem Industries and former director of Institute of Geology, Punjab University, Prof. Dr. Shafeeq Ahmad was held at ICE&T to develop a pilot scale plant for the processing of chromite ore available in Pakistan.
- ORIC arranged a meeting of faculty members of ICE&T with Directors of Noon Sugar Mill for their interest to produce useful products from the waste water coming out after processing of



sugar cane. It was decided that a team of faculty members of ICE&T would visit the Noon Sugar Mill to propose the workable solution for this problem.

- ORIC and IRP arranged a “Thesis Fair” for students of M.Sc. (Engg.) of Institute of Chemical Engg. & Tech. on 26th June 2013. Ms. Nabeela Intisar (Head, Chemical Committee, LCCI), R&D Managers from Shafi Reso Chem, Schazo Pharma, Key and Emms, Moderno Fabrics, Eco- Gen Energies, Valeed Chemicals and Faculty members of Institute of Chemical Engg. & Tech. were also present at this occasion. The honorable delegates from industry has provided a list of industry driven research projects of commercial value and agreed to finance in terms of paying monthly stipend to students and remuneration for faculty members on completion of their research projects.
- ORIC has also facilitated in signing an agreement between Department of Metallurgy and Materials Engineering, Punjab University and Shafi Reso Chem, for the development of “Welding Powder”.
- ORIC arranged a meeting of Mr. Rashid from Govt. College University with Centre for Solid State Physics and School of Physical Sciences for testing of leather samples.
- ORIC arranged a visit of Mr. Naveed from Shafi Reso Chem to Department of Geology, Punjab University for Chromite ORE testing.
- ORIC and Institute of Chemical Engineering & Technology (ICET) are working very closely with Brighto Paints and conducted various tests for samples sent by Brighto Paints at very nominal charges. ORIC and ICE&T are in the process of signing MoU with Brighto Paints. Benefits of MoU would be to finance paint related research at ICE&T and to develop weather and heat resistant paints.
- **Future Targets**
 - ORIC is preparing a database of all the research activities including existing and new research projects, contractual/ commercial research activities, research output in terms of publications, products, patents, etc. and information of research meetings/ conferences organized in each academic department of the University. Research focal persons (RFP) from each academic unit have been identified. The major functions of Research Focal Persons are to coordinate the following activities through the head of academic unit with the ORIC.
 - Coordinate with the ORIC to provide the necessary information about research activities in his/ her academic unit. These activities may include new and existing research projects, contractual/ commercial research activities, and research output in terms of publications, products, patents and information of research meetings / conferences, organized.
 - Participate in the meetings, training sessions, and other activities notified by the ORIC.



- Disseminate the information about new research funding opportunities communicated by the ORIC to other fellow faculty members/ researchers through e-mails, letters, circulars, etc. through the head of his/ her academic unit.
- ORIC website has been prepared and from time to time it is been updated to add the products to be commercialized. The main products of ORIC to be commercialized are Aloe vera Jel, Aloe vera Juice, Detergent, Surf, Shampoo, Cosmetics, Honey, Flowers extract, perfumes and many more products are in process to be commercialized. The faculty of the Punjab University is encouraged to produce different products and get them displayed on the ORIC, University of the Punjab website for advertisement and community to come and get consultancy with regard to these products at very nominal price.

Faculty of Islamic Studies

DEPARTMENT OF ISLAMIC STUDIES

- **Projects (i) Completed**
 - Concept of Nafs in Quran and Modern Psychological Thought
- **Projects (ii) Newly Launched**
 - Quranic Concept of Religion
- **Publications**

Prof. Dr. Hafiz Mahmood Akhtar	مستشرقین کے باہمی تضادات
//	تہذیب انسانی کے ارتقاء میں اسلام کا کردار
Prof. Dr. Jamila Shaukat	حافظ ذہبی اور ان کی میزان الاعتدال فی نقد الرجال ایک جائزہ
//	اسماء الرجال کی دو اساسی کتب
Dr. Tahira Basharat	اقبال کے عالمی منشور کے قیام کا لائحہ عمل
//	سویٹن جدید و قدیم مذاہب کے تناظر میں – تحقیقی جائزہ
Dr. Muhammad Saad Siddiqui	علت۔ بنیاد و اساس قیاس
//	سواری پر نماز کے احکام فقہی مسالک کا تقابلی مطالعہ
//	Islamic perspective of women's employment: Cottage industry development for rural women of Pakistan.
Dr. Ghulam Ali Khan	اسیران افغانستان و عراق اور جنیوا کنونشن
Dr. Ihsan ur Rehman Ghauri	مرویات سیرت میں امام زہری کا منہج و اسلوب
//	جوزف شاخنت اور سند حدیث کے معیارات
Dr. Shahida Parveen	The Role of women in the development of scholarly tradition in the early period of Islam
//	Islamic perspective of women's employment: cottage industry development for rural women of Pakistan
Mr. Asim Naeem	اسرار التنزیل از مولانا محمد اکرم اعوان – صوفیانہ تفسیری رجحان کی نمائندہ تفسیر
Mr. Usman Ahmad	واقعہ شعب ابی طالب کی تاریخی حیثیت



- **Conferences, Seminars & Workshops etc.**

- The Department conducted the following national conferences and international seminar during the period in question:
 - Saudi Arab main Muqem Pakistani Talba kay liyay Workshop"
 - Moulana Sadaruddin Islahi Seminar
 - Moulana Abdul Malik, Seerat Seminar
 - Syllabus workshop

- **Research Journals**

- Two issues of "Al-Qalam" were published during the period in question.

DEPARTMENT OF URDU ENCYCLOPAEDIA OF ISLAM

- **Publications**

- Dr. Muhammad Arshad
 - "Qanoon-I Islami ki tashkil-I Jadid – usul wa minhaj: Allama Muhammad Iqbal aur Allama Muhammad Asad kay afkar ka mutali'a", Fikr-o-Nazar, (Islamabad), vol. 50, no. 2 (October-December 2012), pp. 107-144.
 - "Allama Muhammad Iqbal and Musa Jarullah", Mabath (Lahore), no. 2 (July-December 2012), pp. 239-270.
 - "The Movement for the English Translation of the Qur'an in the Indo-Pakistan Subcontinent: Role of Shibli, Jam'iyat al-'ulama Hind and Majlis-I Qur'ani (Shimla)", Oriental College Magazine, vol. 88, no. 2 (2013), pp. 35-76.
- Dr. Mahmood-ul-Hassan Arif
 - "The Agriculture System in Islam", Conference: Islam and Science (International), 10-11 Nov. 2012 at Fast Nuces Karachi.
 - "Fatawa Writing System in the Sub-continent of Pak-o-Hind", The Fatwa Conference, 3-4 December 2012 at International Islamia University Islamabad.
- Dr. Hafsa Nasreen
 - "Orientalists on the Qur'an" in The Dialogue, Qurtuba University, Peshawar, Jan.-March, 2013, Vol. viii, No. I, pp: 35-52.
 - "Lexical Borrowing: The case of Arabic Language:" Tahqeeqat -e-Islami, Ali Garh, India, April-June 2013, Vol. 32, No. 2, pp: 39-64.

SHEIKH ZAYED ISLAMIC CENTRE

- **Publications**

- Dr. Muhammad Ijaz
 - Topic: Tajarti Mamlaat main qabza ki sharai hasiat, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2012, Volume No. 27, Issue No.38, Page No.135 to 158 (Urdu portion).



- Topic: Riba (Sood) ka mafhoom, aqsaam o ahkam, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2013, Volume No. 28, Issue No.39, Page No.NIL (Urdu portion).
- Dr. Muhammad Abdullah
 - Topic: Trends of Nazam Al-Quran in Tafsir Literature in the Subcontinent, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2012, Volume No. 27, Issue No.38, Page No.55 to 70 (Urdu portion).
 - Topic: Islamic Renaissance in South Asia (1707-1867), Journal: Al-Qalam, Place: Department of Islamic Studies, PU, Lahore, ISSN: 2071-8687, Category: Y, Date: December 2012, Volume No. 17, Issue No. NIL, Page No.01 to 15 (Urdu portion).
 - Topic: Mashrat-e-Nabvi (SAW) Bisween Sadi main Seerat Nigari ka Aham Rujhan Aik Tajziayti Mutalia), Journal: Jihat Al-Islam, Place: Dean, Faculty of Islamic Studies, PU, Lahore, ISSN: NIL, Category: NIL, Date: December 2012, Volume No. 05, Issue No.NIL, Page No.29 to 54 (Urdu portion).
 - Topic: Asar-e-Hazir ki Ijtahadi Kawaishon main maqasad Shariat ki riyat, Journal: Al-Idah, Place: Sheikh Zayed Islamic Centre, Peshawar, Lahore, ISSN: 2076-0307, Category: NIL, Date: June 2013, Volume No. 26, Issue No.NIL, Page No.202 to 226 (Urdu portion).
- Dr. Hafiz Abdullah
 - Topic: Wazah ud dalala tal Alfaz aur Tafseer e Quran, Journal: Al-Adwa, Place: Sheikh Zayed Islamic Centre, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2012, Volume No. 27, Issue No.38, Page No. 01 to 22 (Urdu portion).
 - Topic: Ghair Wazah ud dalala tal Alfaz, Journal: Al-Adwa, Place: Sheikh Zayed Islamic Centre, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2013, Volume No. 28, Issue No.39, Page No. NIL (Urdu portion).
- Dr. Abul Wafa Mahmood
 - Topic: Seeghatul Almbalaghat, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2013, Volume No. 28, Issue No.39, Page No.NIL (Arabic portion).
- Dr. Ishtiaq Ahmad Gondal
 - Topic: Poverty Reduction and Muslim World, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2013, Volume No. 28, Issue No.39, Page No.NIL (English portion).
 - Topic: Role of NGOs in Pakistan: An Overview, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2012, Volume No. 27, Issue No.38, Page No.25 to 36 (English portion).
- Dr. Hafiz Muhammad Abdul Qayyum



- Topic: Tadween e Quran Bahad Siddiqui kay Manhaj ka Tahqeeqi Jaiza, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2013, Volume No. 28, Issue No.39, Page No.NIL (English portion).
- Topic: Ahday Siddiqui main tadveen Quran kay muharkat o awamal, Journal: Al-Adwa, Place: Sheikh Zayed Islamic Centre, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2012, Volume No. 27, Issue No.38, Page No. 275 to 294 (Urdu portion).
- Dr. Hafiz Abdul Basit Khan
 - Topic: Credit Card - Shari Hadood o Qayood (Aik Tahqiqi Jaiza), Journal: Al-Adwa, Place: Sheikh Zayed Islamic Centre, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: December 2012, Volume No. 27, Issue No.38, Page No. 159 to 168 (Urdu portion).
- Dr. Samina Saadia
 - Topic: Almowahab al Dunia ki Zaif, Mozuh aur Israili rawait ka Tanqeedi Jaiza, Journal: Al-Adwa, Place: SZIC, PU, Lahore, ISSN: 1995-7904, Category: Y, Date: June 2013, Volume No. 28, Issue No.39, Page No.NIL (Urdu portion).
- **Conferences, Seminars & Workshops etc.**
 - Sheikh Zayed Islamic Centre organized different Seminars / Workshops / Lectures during October 01, 2012 to September 30, 2013 according to the following detail:
 - Date 29-11-2012
Speaker Maulana Aslam Siddiqui
Topic Shuhdai Islam - Shahadat e Umar & Hussain (R.A)
 - Date 07-10-2012
Speaker Dr. Yasin Mazher Siddiqui
Topic Seerat un Nabi ka Muasharati Pehlu
 - Date 09-09-2013
Speaker Dr. Hafiz Sarfraz Ahmad Awan
Topic Tahafuz Namooos e Risalat (SAW)
 - Date 01-08-2013
Speaker Maulana Yousaf Islahi
Topic Hindustan kay Musلمان Mazi Hal aur Mustaqbil
 - Date 27-06-2013
Speaker Maulana Noor ul Hasan Kandhalvi
Topic Baraysagheer main Sawanih Nigari
Speaker Twenty sittings with Alama Ahmad Javaid
Deputy Director, Iqbal Academy, Lahore
Topic Historic Study of Arabic Literature



- Date 11-04-2013
Speaker Dr. Hafiz Muhammad Sajjad
Topic Darul Musanafeen ki Khidmaat
- Date 04-03-2013
Speaker Dr. Durmush Muhammad Dugan, Regional Director
Topic Prospects of Nursi Movement in Pakistan

- **Research Journals**

- A bi-annual and multilingual research journal "Al-Adwa" is being published by the Centre which is an approved journal of Higher Education Commission (HEC) in "Y" Category.
- Dr. Muhammad Ijaz Director Sheikh Zayed Islamic Centre is Chief Editor and Dr. Hafiz Muhammad Abdul Qayyum is the Editor of said journal.

RESEARCH COLLABORATION

- **Indigenous**

- There is one indigenous scholar in Ph.D. programme.

Faculty of Law

PUNJAB UNIVERSITY LAW COLLEGE

RESEARCH COLLABORATION

- **Foreign Linkages**

- West Law

- **Funding Grants for R&D**

- West Law

Faculty of Life Sciences

CENTRE FOR CLINICAL PSYCHOLOGY

- **Research & Development – An Overview**

- Research courses are taught at both undergraduate and graduate level. Individual research projects are essential requirement for students of masters and doctorate level and undergraduate students. Research supervisors are assigned to every student undergoing their research project at master's and doctorate level. 14 research theses are completed and added to library during this year by the MS students and 26 by BS (4 Years) students.
- **Researches Supervised**

Name of Faculty	No. of Undergraduate Students	No. of Postgraduate Students
Prof. Dr. Rukhsana Kausar	0	2 in process (co-supervisor)
Dr. Nashi Khan	1	3 Completed, 6 in process



Name of Faculty	No. of Undergraduate Students	No. of Postgraduate Students
Dr. Saima Dawood	1	3 in process
Dr. Aisha Sitwat	1	3 in process
Ms. Aasma Yousaf	6	1 in process
Ms. Humaira Naz	6	1 completed
Ms. Tehreem Arshad	6	1 in process

• **Projects (i) Completed**

Sr. No.	Project Name	Name of Faculty	Duration	Sponsoring Agency	Funding	Present Status
1	Common Mental Disorders (CMDs) among Women Presenting with Gynecological Complaints	Dr. Nashi Khan	One Year	Punjab University	150000	Completed
2	Development of Scale for Emotional Intelligence – Adolescent Version	Dr. Saima Dawood	One Year	Punjab University	150000	Completed
3	Personality Traits, creativity and Psychological Adjustment among University Students	Aasma Yousaf	One Year	Punjab University	125000	Completed
4	Parents Perception of Adolescents Self Harm Behaviors: A Qualitative Study	Humaira Naz	One Year	Punjab University	125000	Completed
5	Prevalence of Sexual Disorders among Married Couples of Lahore	Tehreem Arshad	One Year	Punjab University	125000	Completed

(ii) Newly Launched

Sr. No.	Project Name	Name of Faculty	Duration	Sponsoring Agency	Funding	Present Status
1	Perceptions & Beliefs of Men Presenting with Dhat Syndrome	Dr. Nashi Khan	One Year	Punjab University	150000	Completed
2	An exploration of Behavioural and Psychological Correlates of Dementia / Alzheimer's Disease and Caregivers Distress	Dr. Saima Dawood	One Year	Punjab University	150000	In Progress
3	Irrational beliefs and caregiver burden among caregivers of patients with hepatitis C	Aasma Yousaf	One Year	Punjab University	125000	In Progress
4	Illness perception, coping and mental health among patients with chronic pain	Humaira Naz	One Year	Punjab University	125000	In Progress
5	Spiritual Intelligence, Happiness and Psychological Adjustment among University Students	Tehreem Arshad	One Year	Punjab University	125000	In Progress



- Publications

Sr. No.	Papers Published	Name of Author
1.	Kausar R., Awan B. & Khan N. (2013) Differences in Risk Perception and Emotional Distress in Patients with Type 2 Diabetes. Journal of the Indian Academy of Applied Psychology (JIAAP). X Category, ISSN: 0019-4247. Vol. 39, No.2, 222-227.	Prof. Dr. Rukhsana Kausar, Bushra Awan and Nashi Khan
2.	Kausar R., & Faiza R. (2013). Inclination Towards Religion and Post-Traumatic Growth Post Cancer Onset. Indian Journal of Psychology, Special Issue: Contributions of Women Researchers. ISSN-0019-5553.	Prof. Dr. Rukhsana Kausar and Faiza Rasool
3.	Antonio Lasalvia, Silvia Zoppei, Tine Van Bortel, Chiara Bonetto, Doriana Cristofalo, Kristian Wahbeck and all the ASPEN/INDIGO Study Group Prof. Dr. Rukhsana Kausar, (2012). Global pattern of experienced and anticipated discrimination reported by people with major depressive disorder: a cross-sectional survey (www.thelancet.com Published online) October 18, 2012 http://dx.doi.org/10.1016/S0140-6736(12)61379-8 .	Prof. Dr. Rukhsana Kausar
4.	Kausar R., Khan N., Rasool F., Yusuf S., & Spielberger C. D. (2012) Translation and Adaptation of State Trait Anxiety Inventory (STAI-Y) in Urdu. Journal of Behavioural Sciences. X Category, ISSN: 1028-9097. Vol. 22, No. 3, 132-146	Prof. Dr. Rukhsana Kausar
5.	Naz F., & Kausar R. (2012). Parental Rejection and Childhood Abuse in Adolescents with Somatoform Disorders. Journal of Behavioural Sciences. X Category, ISSN: 1028-9097. Vol. 22, No. 2, 67-82.	Prof. Dr. Rukhsana Kausar
6.	Naz F., & Kausar R. (2012). Parental Acceptance Rejection and Comorbid Disorders in Adolescents with Somatization Disorder. Journal of Behavioural Sciences, Special Issue on Parental Acceptance Research in Pakistan. X Category, ISSN: 1028-9097. Vol. 22, No. 1, 125-142.	Prof. Dr. Rukhsana Kausar
7.	Najam N., & Kausar R. (2012). Father Acceptance Rejection, Father Involvement, and Socio-Emotional Adjustment of Adolescents. Journal of Behavioural Sciences, Special Issue on Parental Acceptance Rejection Research in Pakistan. X Category, ISSN: 1028-9097. Vol. 22, No. 1, 1-22	Prof. Dr. Rukhsana Kausar and Najma Najam
8.	Khan, N., Kausar, R & Choudhry (2012), H. R. Demographic Characteristics and Implications of Dhat Syndrome in Pakistan. Indian Journal of Clinical Psychology, 38 (1), 69-78. Y Category. ISSN: 0303-2582.	Prof. Dr. Rukhsana Kausar
9.	ASPEN/INDIGO Study Group (2012). Global Pattern of Experienced and Anticipated Discrimination Reported by People with Major Depressive Disorder: A Cross Sectional Survey. Lancet. Online. October 18. http://dx.doi.org/10.1016/S014-6736(12)61457-3	Dr. Nashi Khan



Sr. No.	Papers Published	Name of Author
10.	Kausar R., Khan N., Rasool F., Yusuf S., and Speilberger C.D. (2012). Translation and Adaptation of State Trait Anxiety Inventory (STAI-Y) in Urdu. Journal of Behavior Sciences, 22 (3), 132-145	Dr. Nashi Khan
11.	Kausar, R., Awan, B., and Khan, N. (2013). Gender Differences in Risk Perception and Emotional Distress in Pakistan with Type 2 Diabetes. Journal of Indian Academy of Applied Psychology, 32 (2), 222-227	Dr. Nashi Khan
12.	Khan, N. and Khalid, A. (2013). Pathways of Women Prisoners to Jail in Pakistan. Health Promotion Perspectives 3(1), 32-36.	Dr. Nashi Khan

• **Research Articles / papers presented in National/International Conference/Seminars:**

Name of Author	Title of Paper	Conference / Seminar	Venue	Date
Dr. Nashi Khan	Perceived Causes of Vaginal Discharge in Women in Pakistan.	European Health Psychological Society (EHPS, 27)	Bordeaux, France	22 August 2013
Dr. Nashi Khan	Risk Factors for Criminal Behavior among Pakistani Women Offenders	European Health Psychological Society (EHPS, 27)	Bordeaux, France	22 August 2013
Dr. Nashi Khan	Common Mental Disorders (CMDs) among Women Presenting with Gynecological Complaints	European Health Psychological Society (EHPS, 27)	Bordeaux, France	22 August 2013
Dr. Nashi Khan	Perception of Women Reporting Vaginal Discharge at Gynecology Clinics in Lahore	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, Punjab University, Lahore	15 th -19 th Dec 2012
Dr. Nashi Khan	Demographic Characteristics of Men with Erectile Dysfunction	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, Punjab University, Lahore	15 th -19 th Dec 2012
Dr. Nashi Khan	Psychological Distress among Convicted and Under Trial Women Prisoners	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, Punjab University, Lahore	15 th -19 th Dec 2012
Dr. Nashi Khan	Psychological Distress in Women Presenting with Vaginal Discharge in Pakistan	12 th International Congress of Behavioral Medicine	Budapest, Hungary	29 th August – 1 ST Sept. 2012
Dr. Nashi Khan	Depression, Anxiety and Addictive Behavior among Women Prisoners in Pakistan	European Health Psychological Society (EHPS, 12)	Prague. Czech Republic	22 nd – 26 th August. 2012



Name of Author	Title of Paper	Conference / Seminar	Venue	Date
Shiba Bashir & Aisha Sitwat	Perfectionism and Locus of Control with Positive and Negative Affect in University Students	Workshop Stress Management: Learn Effective Ways for Dealing with Stress	Grace College, Lahore	26th April, 2013
Ayesha Aziz & Saima Dawood	Poly Victimization as a Mediator for Perceived Parental Acceptance Rejection and Quality of Life	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, University of the Punjab, Lahore	15 th – 19 th December, 2012
Faiza Akram & Saima Dawood	Value Priorities in relation to Parental Relationship and Vulnerability toward Depression and Anxiety	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, University of the Punjab, Lahore	15 th – 19 th December, 2012
Fouzia Gull & Saima Dawood	Education: A Factor in Psychological Well Being and Coping Strategies among Geriatric Population	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, University of the Punjab, Lahore	15 th – 19 th December, 2012
Saira Noreen & Saima Dawood	Personality correlates of Runaway Women and their Vulnerability towards Depression	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, University of the Punjab, Lahore	15 th – 19 th December, 2012
Shafaq Saeed & Saima Dawood	Self Esteem and Frustration Tolerance among Physically Disabled Individuals and their Vulnerability towards Anxiety and Depression	International Conference of Applied Psychology (ICAPP)	Institute of Applied Psychology, University of the Punjab, Lahore	15 th – 19 th December, 2012

• **Conferences, Seminars & Workshops (conducted)**

Name	Sponsors	Presentation Oral/Poster	Topic	Date
Dr. Urusa Fahim	CCP	Oral	Workshop on Designing Qualitative Research	13 th December, 2012
Ms. Saima Salman	CCP	Oral	Open House Talk Discussion on REBT – Basic and Beyond	20 th December, 2012
Dr. Bebdulal Dutta Roy	CCP	Oral	Workshop on Estimation of Cronbach's Alpha Coefficient in Psychological Research	20 th December, 2012
Dr. Najma Najam	CCP	Oral	Two Days Workshop on Research Designs	16 th –17 th , January, 2013
Dr. Oskan Mehmedagi	CCP	Oral	Workshop on Neuro Linguistic Programming and Hypnosis	13 th June, 2013
Dr. Jamil A. Malik	CCP	Oral	Two Days Workshop on Structural Equation Modeling with AMOS	21 st – 22 nd June, 2013



Name	Spon-sors	Presentation Oral/Poster	Topic	Date
Dr. Andrew Hamid	CCP	Oral	Two Days Workshop on Motivational Interviewing	18 th – 19 th March, 2013
Dr. Munawar Malik	CCP	Oral	Extension Lecture on Dealing with Speech Problems in Children	4 th September, 2012
Dr. Urusa Fahim	CCP	Oral	Extension Lecture on Self Awareness	28 th September, 2012
Ms. Mirrat Gul Butt	CCP	Oral	Extension Lecture on Dialectical Behavior Therapy	10 th October, 2012
Dr. Fouzia Naz	CCP	Oral	Extension Lecture on Child Abuse	23 rd October, 2012
Ms. Kiran Ishfaq	CCP	Oral	Extension Lecture on Cognitive Behaviour Therapy with Obsessive Compulsive Disorder (OCD)	31 st October, 2012
Dr. Shahida Tanveer	CCP	Oral	Extension Lecture on Headaches Management	6 th November, 2012
Dr. Altaf Qadir Khan	CCP	Oral	Extension Lecture on Mental State Examination	14 th November, 2012
Dr. Irum Bokharey	CCP	Oral	Extension Lecture on Conversion Disorder	28 th November, 2012
Dr. Naumana Amjad	CCP	Oral	Extension Lecture on Anger Problem in Children	22 nd May, 2013
Dr. Altaf Qadir Khan	CCP	Oral	Extension Lecture on Epilepsy	5 th June, 2013
Ms. Mirrat Gul Butt	CCP	Oral	Extension Lecture on CBT in Pakistan	19 th June, 2013
Ms. Saira Khan	CCP	Oral	Extension Lecture on Personal & Professional Development	3 rd July, 2013
Dr. Munawar Malik	CCP	Oral	Extension Lecture on Dealing with Speech Problems in Children	11 th September, 2013
Ms. Wajeeha Zahra	CCP	Oral	Extension Lecture on Developing Preparing IEP for Children with Development Disabilities	25 th September, 2013

• **Conferences, Seminars & Workshops (Attended)**

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
1.	Kausar, R., Naz, A. & Nashee, Q. (2013). Body Image, Social Support and Self-esteem in Post Mastectomy Breast Cancer Patients. 27 th Conference of the European Health Psychology Society (EHPS) 2013 16 th – 20 th July, 2013 at Bordeaux, France.	Prof. Dr. Rukhsana Kausar
2.	Kausar, R. & Tariq M. (2013). Assessment of Well-being and Ill-being in Pakistan. 27 th Conference of the European Health Psychology Society (EHPS) 2013 16 th – 20 th July, 2013 at Bordeaux, France	Prof. Dr. Rukhsana Kausar & Omama Tariq



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
3.	Naz, F., & Kausar, R. (2013) Parental Rejection, Personality Maladjustment, and Depression in Female Adolescents in the Pakistani Context. ISIPAR, India on 13 th January, 2013	Prof. Dr. Rukhsana Kausar
2	Malik, F., Kausar, R. & Butt, M. (2013) Parental Acceptance and Power/Prestige as Predictors of Psychological Adjustment among Pakistani Adolescents. ISIPAR, India on 10 th January, 2013	Prof. Dr. Rukhsana Kausar
3	Naz, F., & Kausar, R. (2012). Childhood abuse and Depressive Symptoms in Adolescents with Conversion Disorder. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
4	Kausar, R., Tariq, S., & Khalid, M. (2012). Gender Disparity and Achievement Gaps in Higher Education in Pakistan. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
5	Saleem, F., & Kausar, R. (2012). Computer Use, Social Interaction and Academic Performance of Pakistani Adolescents. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012	Prof. Dr. Rukhsana Kausar
6	Zaidi, G., Zafar, N., Huda, N., Zubair, R., & Kausar, R. (2012). Quality of life and Adjustment of Patients with Type II Diabetes with Amputation and without Amputation. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
7	Batool, S., & Kausar, R. (2012). Health Related Behaviors and Medication Adherence in Patients with Hepatitis C. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
8	Batool, S., Naqvi, G., Javed, A., Tufail, H., & Kausar, R. (2012). Menopausal Attitude and Symptoms among Working Women. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
9	Qureshi, A., Liaqat, F., Hassan, H., Ashraf, N., Javed, Z., & Kausar, R. (2012). Coping Strategies And Marital Adjustment Of Wives Of The Patients With Ischemic Heart Disease. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
10	Ijaz, A., & Nashi, Q. (2012). Social Support, Body Image And Self Esteem In Post Mastectomy Brest Cancer Patients. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
11	Zahra, A., & Kausar, R. (2012). Acute Stress Disorder Symptoms, Anxiety and Extent of Information Among Patients Suffering From	Prof. Dr. Rukhsana Kausar



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	Dengue Fever. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	
12	Wahid, S., & Kausar, R. (2012). Acute Stress Disorder, Symptoms Severity and Satisfaction with Treatment in Dengue Fever Patients in Relation to Empathy and Altruism in Paramedics. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
13	Naz, S., & Kausar, R. (2012). Psychological Impact of Dissemination of Dengue Related Information Through Media on Dengue Patients and General Population. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
14	Mukhtar, B., & Kausar, R. (2012). Symptom Severity and Self-Efficacy of Dengue Patients Receiving Psycho-education and those who Did Not Receive Psycho-education: A Case Control Study. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
15	Bibi, A., & Kausar, R. (2012). Level of Awareness and Precautionary Practices Regarding Dengue Fever among Nomads. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012	Prof. Dr. Rukhsana Kausar
16	Waris, B., & Kausar, R. (2012). Psychological Distress and Quality of Life of Dengue Fever Survivors. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
17	Anwar, S., & Kausar, R. Level of Information And Precautionary Practices Among Dengue Survivors And Non-Affected Individuals: A Case Control Study. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
18	Workshop on "NLP and Hypnosis". Centre for Clinical Psychology, University of the Punjab, Lahore Pakistan. 13 th June 2013	Dr. Nashi Khan
19	Workshop on "Art & Science of Rational Anger Management". Centre for Clinical Psychology, University of the Punjab, Lahore. Pakistan. 16 th Dec. 2012	Dr. Nashi Khan
20	Workshop on "Designing Qualitative Research". Centre for Clinical Psychology, University of the Punjab, Lahore. Pakistan. 13 th Dec. 2012	Dr. Nashi Khan
21	Workshop on "Designing Qualitative Research". Centre for Clinical Psychology, University of the Punjab, Lahore. Pakistan. 13 th Dec. 2012	Dr. Aisha Sitwat
22	International Conference of Applied Psychology, held from 15 th – 19 th December, 2012 at Institute of Applied Psychology, University of the Punjab, Lahore	Dr. Saima Dawood
23	Two Days Workshop on Structural Equation Modeling with AMOS held on 21 st – 22 nd June, 2013 at the Centre for Clinical Psychology,	Ms. Aasma Yousaf



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	University of the Punjab, Lahore	
24	Attended and part of organizing committee of International conference of Applied Psychology (ICAP) held on 17 th - 18 th December, 2012	Ms. Aasma Yousaf
25	Moderator of a workshop "Behaviors and Attitudes for Promoting Women Leadership" held on 16 th December, 2012	Ms. Aasma Yousaf
26	Attended of a workshop "Estimation of Cronbach's Alpha Coefficient in Psychological Research" held on 19 th December, 2012	Ms. Aasma Yousaf
27	Attended of a workshop "Enhancing Human Excellence" held on 20 th December, 2012	Ms. Aasma Yousaf
28	Attended of a workshop "Screening for Depression and Planning Mental Health Intervention for People with Diabetes" held on 16 th December, 2012	Ms. Aasma Yousaf
29	Attended of a workshop "Healing Through Hypnosis" held on 15 th December, 2012	Ms. Aasma Yousaf
30	International Conference of Applied Psychology, held from 15 th – 19 th December, 2012 at Institute of Applied Psychology, University of the Punjab, Lahore	Ms. Humaira Naz
31	Two Days Workshop on Structural Equation Modeling with AMOS held on 21 st – 22 nd June, 2013 at the Centre for Clinical Psychology, University of the Punjab, Lahore	Ms. Humaira Naz
32	Attended of a workshop "Screening for Depression and Planning Mental Health Intervention for People with Diabetes" held on 16 th December, 2012	Ms. Humaira Naz
33	Attended of a workshop "Estimation of Cronbach's Alpha Coefficient in Psychological Research" held on 19 th December, 2012	Ms. Humaira Naz
34	Attended of a workshop "Enhancing Human Excellence" held on 20 th December, 2012	Ms. Humaira Naz
35	International Conference of Applied Psychology, held from 15 th – 19 th December, 2012 at Institute of Applied Psychology, University of the Punjab, Lahore	Ms. Tehreem Arshad
36	Two Days Workshop on Structural Equation Modeling with AMOS held on 21 st – 22 nd June, 2013 at the Centre for Clinical Psychology, University of the Punjab, Lahore	Ms. Tehreem Arshad
37	Attended of a workshop "Estimation of Cronbach's Alpha Coefficient in Psychological Research" held on 19 th December, 2012	Ms. Tehreem Arshad
38	Attended of a workshop "Enhancing Human Excellence" held on 20 th December, 2012	Ms. Tehreem Arshad
39	Attended of a workshop "Screening for Depression and Planning Mental Health Intervention for People with Diabetes" held on 16 th December, 2012	Ms. Tehreem Arshad



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
40	Attended of a workshop "Healing Through Hypnosis" held on 15 th December, 2012	Ms. Tehreem Arshad

- **Research Journals**

- Pakistan Journal of Professional Psychology: Research & Practice 2nd Issue is in process.

RESEARCH COLLABORATION

- **Foreign Linkages**

- Indigo Project: Institute of Psychiatry London (Khan & Kausar)

CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY

- **Research & Development – An Overview**

- Centre of Excellence in Molecular Biology continues its aim of advance teaching and research in the field of molecular biology as in previous years. It has provided a platform to the scholars and scientists to work in an innovative environment. This state of the art molecular biology research facility has greatly contributed in the development, improvement and identification of new methods for disease diagnosis and drug development. Different research groups like stem cells, plant genomics, plant biotechnology, hereditary diseases, applied and functional genomics, biopharmaceuticals, forensic, molecular virology and bioinformatics group are working in an integrated manner. The excellent teaching and research environment in the Centre attract the scientist and researcher from national and international organizations to work and exchange knowledge for the betterment of humanity.

- **Projects (i) Completed**

- Development of Transgenic Cotton with Multiple Genes Resistant to Cotton Leaf Curl Virus
- Therapeutic Potential of CD-59 Protein Induction in Keratinocytes Genome Modifier Chemical Cocktail and its Role in Skin Tissue Regeneration in Mammals
- Development of SSR Markers for use in Molecular Breeding for Cotton Leaf Curl Burewala Virus (clcbv) Resistance
- Optimization and Validation of 10 Mitochondrial DNA SNP's for Pakistani Population Using Snap Shot Kit

- **Projects (ii) Newly Launched**

Sr. No.	Name of the Projects	Sponsoring Agency	Funding
1.	Identification and transcriptome profiling of novel microRNAs in hepatitis C virus induced liver diseases by next generation sequencing (NGS) of small RNA cDNA libraries.	HEC	3.37 Million
2	Development & Commercialization of indigenous Bt and herbicide tolerant Maize hybrids.	PARB	22.829 Million



Sr. No.	Name of the Projects	Sponsoring Agency	Funding
3	Genetic Improvement of Sugarcane for Herbicide and Borer Resistance.	PARB	22.148 Million
4	Development and Commercialization of Cotton Leaf Curl Virus resistant / tolerant indigenous transgenic Bt and glyphosate Cotton hybrids.	PARB	35.766 Million

• Publications

- Bashir ZH, Latief N, Belyantseva IA, Iqbal F, Riazuddin SA, Khan SN, Friedman TB; Riazuddin S (2013). Phenotypic variability of CLDN14 mutations causing DFNB29 hearing loss in the Pakistani population. *Journal of human genetics* 58: 102-108
- Nadia W, Mehmood A, Bhatti, FR, Khan SN, Riazuddin S (2013). Lovastatin protects chondrocytes derived from Wharton's jelly of human cord against hydrogen-peroxide-induced in vitro Injury (2013). *Cell and Tissue Research* 51(3):433-443
- Tariq M, Masoud MS, Mehmood A, Khan SN, Riazuddin S (2013). Stromal cell derived factor 1 alpha protects stem cell derived insulin-producing cells from glucotoxicity under high glucose conditions in-vitro and ameliorated drug induced diabetes in rats. *J translational medicine* 11:115
- Khan M, Ali F, Mohsin S, Akhtar S, Mehmood A, Choudhery MS, Khan SN and Riazuddin S (2013). Preconditioning diabetic mesenchymal stem cells with myogenic medium increases their ability to repair diabetic heart. *Stem Cell Research & Therapy* 4:58
- Shahzad M, Sivakumaran TA, Qaiser TA, Schultz JM, Hussain Z, Flanagan M, Bhinder MA, Kissell D, Greinwald Jr JH, Khan SN, Friedman TB, Zhang K, Riazuddin S, Riazuddin S, Ahmed ZM (2013). Genetic Analysis through Otoseq of Pakistani Families Segregating Prelingual Hearing Loss. *Otolaryngology-Head and Neck Surgery*. 149(3):478-87
- Jenkinson EM, Rehman AU, Walsh T, Smith JC, Lee K, Morell RJ, Drummond MC, Khan SN, Naeem MA, Rauf B, Billington N, Schultz JM, Urquhart JE, Lee MK, Berry A, Hanley NA, Mehta S, Cilliers D, Clayton PE, Kingston H, Smith MJ, Warner TT, Black GC, Trump D, Davis JRE, Ahmad W, Leal SM, Riazuddin S, King MC, Friedman TB and Newman WG (2013). Perrault syndrome is caused by recessive mutations in CLPP, encoding a mitochondrial ATP-Dependent chambered protease. *American journal of human genetics*. 92(4):605-613
- Hossain MD B, Nasir, I A, Tabassum B, Husnain T (2013). Molecular characterization, cloning and sequencing of coat protein gene of a Pakistani potato leaf roll virus isolate and its phylogenetic analysis. *African Journal of Biotechnology* 12(11): 1196-1202
- Iftikhar S, Shahid A A, Javed S, Nasir I A, Tabassum B, Haider M S (2013). Essential Oils and Latices as Novel Antiviral Agent Against Potato Leaf Roll Virus and Analysis of Their



- Phytochemical Constituents Responsible for Antiviral Activity. *Journal of Agricultural Science* 5 (7): 167-188
- Rao A Q, Bajwa K S, Puspito A N, Khan M Z U, Abbas M A, Rehman M U, Bakhsh A, Shahid A A, Nasir I A, Husnain T (2013). Variation in Expression of Phytochrome B Gene in Cotton (*Gossypium hirsutum* L.). *Journal of Agricultural science and Technology* 15: 1033-1042
 - Nasir I A, Jamal A, Bushra T, Husnain T (2013). Regeneration Response from Old Cell Suspension Cultures of *Gladiolus*. *Experimental Agriculture & Horticulture*, 2 (2); 01-11
 - Bushra T, Sher Z, Tariq M, Khan A, Shahid N, Bilal M, Ramzan M, Iqbal M S, Nasir I A, Jamal A, Husnain T (2013). Overview of Acquired Virus Resistance in Transgenic Plants. *Experimental Agriculture & Horticulture* 2 (2); 12-28
 - Hussain A, Idrees M (2013). First complete genome of HCV-1a form Pakistani isolate and its Phylogenetic analysis with complete genome of rest of world. *Virology Journal*. 10:211
 - Ullah S, Rehman HU, Idrees M (2013). Mutations in the NS5a gene are associated with response to interferon + ribavirin combination therapy in patients with chronic hepatitis C virus 3a infection. *Eur J Gastroenterol Hepatol*, 25(10):1146-51
 - Ali A, Rehman HU, Nisar M, Rafique S, Ali S, Hussain A, Nausheen, Idrees M, Sabri S, Zada H, Hussain S (2013). Seroepidemiology of dengue fever in Khyber Pakhtunkhwa, Pakistan. *Int J Infect* 17(7):e518-23
 - Ashraf A M, Shahid A M, Mohamed B B, Dahab A A, Bajwa S K, Rao Q A, Khan A M, Ilyas M, Haider S M, Husnain T (2013). Molecular characterization and phylogenetic analysis of a variant of highly infectious cottonleaf curl Burewala virus associated with CLCuD from Pakistan. *Australian Journal of Crop Sciences* 7(8):1113-1122
 - Ilyas M, Nawaz K, Shafiq M, Haider MS, Shahid AA (2013). Complete nucleotide sequences of two begomoviruses infecting Madagascar periwinkle (*Catharanthus roseus*) from Pakistan. *Archives of Virology* 158(2):505-510
 - Shah M, wadood A, Rahman Z, Husnain T (2013). Interaction and Inhibition of Dengue Envelope Glycoprotein with Mammalian Receptor DC-Sign, an In-Silico Approach, *PLoS ONE*, 8(3): e59211
 - Shamim Z., Rashid B., ShahidurRahman, Husnain T (2013). Expression of drought tolerance in transgenic cotton, *Science Asia*, 39: 1-11
 - Bhatti FU, Mehmood A, Wajid N, Rauf M, Khan SN, Riazuddin S (2013). Vitamin E protects chondrocytes against hydrogen peroxide-induced oxidative stress in vitro. *Inflammation Research*, 62(8):781-9
 - Shahid I, Gull S, Ijaz B, Ahmad W, Ansar M, Asad S, Kausar H, Sarwar MT, Khan MK, Hassan S (2013). Stable Huh-7 cell lines expressing non-structural proteins of genotype 1a of hepatitis C virus. *Virological methods* 189(1):65-9



- Dihazi GH, Bibi A, Jahn O, Nolte J, Mueller GA, Engel W, Dihazi H (2013). Impact of the antiproliferative agent cyclopiroxolamine treatment on stem cells proteome. *World J Stem Cells* 5(1):9-25
- Dihazi H, Dihazi GH, Bibi A, Eltoweissy M, Mueller CA, Asif AR, Rubel D, Vasko R, Mueller GA (2013). Secretion of ERP57 is important for extracellular matrix accumulation and progression of renal fibrosis, and is an early sign of disease onset. *J Cell Sci*126(16): 3649-63
- Buchmaier BS, Bibi A, Muller GA, Dihazi GH, Eltoweissy M, Kruegel J, Dihazi H (2013). Renal Cells Express Different Forms of Vimentin: The Independent Expression Alteration of these Forms is Important in Cell Resistance to Osmotic Stress and Apoptosis. *Plos One*8(7): 683-01
- Bajwa S. K, Shahid AA, Rao AQ, Kiani S, Latif A, Khan A, Puspito AN, Bashir A, Aftab A Husnain T. (2013). Expression of Calotropisprocera expansion gene CpEXPA3 enhances Cotton fiber strength. *Australian Journal of Crop Sciences*7(2):206-212
- Gibran A and Masoud M S (2012). Bone marrow cells ameliorate liver fibrosis and expresses albumin transplanted in ccl4-induced fibrotic liver. *Saudi J Gastroenterol.*18(4): 263-7.
- Ibrahim A, Shahid A A, Shafiq M, Haider M S (2012). Management of root knot nematodes on the turnip plant (*brassica rapa*) by using fungus (*trichoderma harzianum*) and neem (*azadirachta indica*) and effect on the growth rate. *Pakistan Journal of Phytopathology.* 24(2): 101-105
- Rahman M, Hussain K, Khan AM, Bakhsh A and Rao A.Q (2012). An insight of cotton leaf curl virus: A devastating plant pathogenic. *Begomovirus Pure Appl Bio.*1(3): 52-58.
- Shah SAR, Lal A, Idrees M, Hussain A, Jeet C, Malik FA, Iqbal Z (2012). Hepatitis E virus-associated aplastic anaemia: The first case of its kind. *Journal of Clinical Virology.* 54(1): 96-97
- Shahid AA, Rao QA, Bakhsh A, Husnain T (2012). Entomopathogenic fungi as biological controllers: New insights into their virulence and pathogenicity. *Archives of Biological Sciences.*64(1):21-42.
- Shahid MN, Jamal A, Rashid B, Aftab B, Husnain T (2012). Identification and isolation of salt-stress responsive transcripts from *Gossypium arboreum* L. *Turk J Biol.*36:746-756.
- Wajid N, Mehmood A, Khan SN, Riazuddin S (2012). Lovastatin protects chondrocytes derived from Wharton's jelly of human cord against hydrogen-peroxide-induced in vitro injury. *Cell and tissue res.* 1-11.
- Masoud MS, Anwar SS, Afzal MZ, Mehmood A, Khan SN, Riazuddin S (2012). Pre-conditioned mesenchymal stem cells ameliorate renal ischemic injury in rats by augmented survival and engraftment. *Journal of translational medicine.* 10(1):243.
- Naeem MA, Chavali VR, Ali S, Iqbal M, Riazuddin S, Khan SN, Husnain T, Sieving PA, Ayyagari R, Riazuddin S (2012). GNAT1 associated with autosomal recessive congenital stationary night blindness. *Investigative ophthalmology & visual science.*53(3):1353-1361.



- Nasir IA, Jamal A, Rahman Z, Husnain T (2012). Molecular analyses of gladiolus lines with improved resistance against Fusarium wilt. *Pak J Bot* 2012. 44(1):73-79.
- Rashid B, Husnain T, Riazuddin S (2012). Plant Genetic Engineering: Problems and Applications. In: *Crop Production for Agricultural Improvement*. Springer. 263-290.
- Israr M, Shahid AA, Rahman Z, Shahzad MS, Ullah O, Husnain T (2012). Punjabi population data for seven X-chromosome short tandem repeat (X-STR) loci using a new miniplex system. *African Journal of Biotechnology*. 11(46):10513-10516.
- Bakhsh A, Rao AQ, Shahid AA, Husnain T (2012). Spatio Temporal Expression Pattern of an Insecticidal Gene (cry2A) in Transgenic Cotton Lines. *Notulae Scientia Biologicae*. 4(4):115-119.
- Bakhsh A, Siddique S, Husnain T (2012). A molecular approach to combat spatio-temporal variation in insecticidal gene (Cry1Ac) expression in cotton. *Euphytica*. 183(1):65-74.
- Butt AM, Feng D, Idrees M, Tong Y, Lu J (2012). Computational identification and modeling of crosstalk between Phosphorylation, O- β -glycosylation and Methylation of FoxO3 and implications for cancer therapeutics. *International journal of molecular sciences*. 13(3):2918-2938.
- Butt AM, Feng D, Nasrullah I, Tahir S, Idrees M, Tong Y, Lu J (2012). Computational Identification of Interplay between Phosphorylation and O- β -glycosylation of Human Occludin as Potential Mechanism to Impair Hepatitis C Virus Entry. *Infection, Genetics and Evolution*. 12 (6): 1235-1245
- Butt AM, Tahir S, Nasrullah I, Idrees M, Lu J, Tong Y (2012). *Mycoplasma genitalium*: A comparative genomics study of metabolic pathways for the identification of drug and vaccine targets. *Infection, Genetics and Evolution*. 12(1):53-62.
- Choudhery MS, Khan M, Mahmood R, Mehmood A, Khan SN, Riazuddin S (2012). Bone marrow derived mesenchymal stem cells from aged mice have reduced wound healing, angiogenesis, proliferation and anti-apoptosis capabilities. *Cell Biology International*. 36(8):747-753.
- Choudhery MS, Khan M, Mahmood R, Mohsin S, Akhtar S, Ali F, Khan SN, Riazuddin S (2012). Mesenchymal stem cells conditioned with glucose depletion augments their ability to repair infarcted myocardium. *Journal of Cellular and Molecular Medicine*. 16(10):2518-2529.
- Ali R, Rehman A, Khan S, Husnain T, Riazuddin S, Friedman T, Ahmed Z (2012). DFNB86, a novel autosomal recessive non-syndromic deafness locus on chromosome 16p13. *Clinical genetics*. 81(5):498-500.
- Alam M, Rahman Z, Shah M, Zar MS, Shams S, Ali F, Khan MK (2012). Bioethics: Awareness, attitudes and opinions among University students and Faculty/Researchers. *Pakistan Journal of Medical Sciences*, 28(4).
- Jamal, A., Nasir, IA., Tabassum, B., Tariq, M., Farooq, AM., Qamar, Z., Khan, MA., Ahmad, N., Shafiq, M., Haider, MS., Javed, MA and Husnain, T (2012). Molecular characterization of capsid



protein gene of potato virus X from Pakistan. Pak. African Journal of Biotechnology 11(74):13854-13857.

- Farooq, AM., Nasir, IA., Tabassum, B., Tariq, M., Qamar, Z., Khan, MA., Ahmad, N., Haider, MS., Anwar, W., Javed, MA and Husnain, T (2012). Développement and comparative studies of double cross tomato hybrids. African Journal of Agricultural Research. 7(37):5259-5264.
- Rahman, MU., Rao, AQ., Batool, F., Azam, S., Shahid, AA and Husnain, T (2012). Transgene copy number and phenotypic variations in transgenic basmati rice. The Journal of Animal & Plant Sciences. 22(4): 1004-1013.
- Dahab, AHA., Mohamed, BB., Husnain, T and Saeed, M (2012). Variability for drought tolerance in cotton (*Gossypium hirsutum* L.) for growth productivity traits using selection index. African Journal of Agricultural Research. 7(35): 4934-4942.
- Zahur M, Maqbool A., Irfan M., Jamal A., Shahid N., Aftab B and Husnain T (2012). Identification and characterization of a novel gene encoding myb-box binding zinc finger protein in *Gossypium arboreum*. *Biologia Plantarum*. 56 (4): 641-647.
- Bakhsh, A., Qayyum, AR., Khan, GA., Rashid, B., Shahid, AA and Husnain, T (2012). Insect Resistance Studies of Transgenic Cotton Cultivar Harboring cry1Ac and cry2A. *Res J. Agric Sci (TABAD) Tarqim Bilim leri Araştırma Dergisi* 5(2): 167-171.
- Barozai, MY and Husnain, T (2012). Identification of biotic and abiotic stress up-regulated ESTs in *Gossypium arboreum*. *Mol Biol Rep*. 39(2): 1011-8.
- Kiani S, Muhammad BB, Shehzad K, Jamal A, Shahid MN, Shahid AA, Husnain T, (2013) Chloroplast - targeted expression of recombinant crystal- protein gene in cotton: An unconventional combat with resistant pests. *Journal of Biotechnology* 166(2013) 88-96.
- Dahab, AA., Saeed, M., Mohammed, BB., Ashraf, MA., Puspito, AN., Bajwa, KS., Shahid, AA and Husnain, T (2013). Genetic diversity assessment of cotton (*Gossypium hirsutum* L.) genotypes from Pakistan using simple sequence repeat markers. *Australian Journal of Crop Science*. (7)2: 261-267.
- Khan, GA., Bakhsh, A., Ghazanfar, M., Riazuddin, S and Husnain, T (2013). Development of transgenic cotton lines harboring a pesticidal gene (cry1Ab). *J. Food Agric*. 25(6): 434-442.
- Kabir, F., Naz, S., Riazuddin, SA., Naeem, MA., Khan, SN., Husnain, T., Akram, J., Sieving, PA., Hejtmancik, JF and Riazuddin, S (2013). Novel mutations in RPE65 identified in consanguineous Pakistani families with retinal dystrophy.

Books:

- Adnan Muzaffar, Abdul Qayyum Rao, Tayyab Husnain (2012). Chloroplast Targeted Expression of Cry1Ac and Cry2A Genes in Cotton: Cloning and Chloroplast Expression of Cry1Ac and Cry2A Transit Peptide Fusion Genes in Cotton Variety MNH-786. Lambert academic publishers. ISBN 978-3-659-31158-1.



- Bushra Rashid, TayyabHusnain, Sheikh Riazuddin. Plant Genetic Engineering: Problems and Applications. (2012) In Crop Production for Agricultural Improvement. Ashraf, M.; Öztürk, M.; Ahmad, M.S.A.; Aksoy, A. (Eds.) ISBN 978-94-007-4115-7.
- **Conferences, Seminars & Workshops etc.**
 - Rashid B, Aftab B, Shahid MN, Hassan, S, Saddique S, Husnain T. (2012). Identifying CLCV tolerant genes in cotton through genomics approaches. Poster presented at International Cotton Genome Initiative conference (ICGI). Raleigh, North Carolina, USA, October 09-12, 2012
 - TayyabHusnain (2012) Search of droughttolerant genes/transcription factor from Gossypiumar boreum and its transformation in Gossypiumhirusutum. Poster presented at International Cotton Genome Initiative conference (ICGI). Raleigh, North Carolina, USA, (October 09-12, 2012.)
 - Ahmad Ali Shahid, Hafiz Mujeeb-ur-Rehman, Muhammad Akram and Adnan Zahid (2012). "Real time Nitrogen fertilizer management with the leaf color chart technology in rice in Punjab Province Pakistan. Presented at 3rd International Conference on Agriculture and Animal Sciences. Bangkok, Thailand (November, 24-25, 2012).

RESEARCH COLLABORATION

- **Indigenous**
 - Bahaudin Zakria University Multan,
 - CCRI Multan,
 - University of Veterinary and Animals Sciences Lahore
 - Abdul Wali Khan University Mardan and other local bodies working in the field of bioinformatics
 - Layton Rahmatulla Benevolent Trust (LRBT) Hospital, Mayo Hospital, AllamaIqbal Medical College (AIMC)/ Jinnah Hospital, Avicenna Medical College/Hospital, Lahore
 - Working in Collaborative projects with NIBGE and IAGS transforming Virus resistant constructs against CLCuV in cotton and sharing outcomes
- **Foreign Linkages**
 - Pak - USA
 - Wilmer Eye Institute, Johns Hopkins University, Maryland, USA.
 - National Institute of Health, Rockville, USA
 - Department of Human Genetics, Radboud University Nijmegen Medical, Netherland
 - Agricultural Research Service, USDA, Baltimore USA
 - Korean Bioinformatics Center
 - South Korea; Personal Genomics Institute,
 - Korea and Genome Research Foundation, Korea



- **Funding Grants for R&D**

Sr. #	Name of the Projects	Sponsoring Agency	Funding
1	A Molecular Approach to Prevent Hereditary Blindness in Pakistan.	HEC (PAK-USA)	6.688 Million78, 232 US\$
2	The Development of Oligonucleotide Microarray and its use in the analysis of abiotic Stress	HEC	6.445 Million
3	Cellular Characterization of Cotton Universal Stress Protein USP Genes and Their Role in Drought Stress	HEC	4.696 Million
4	Transformation of Bt cotton with Transgenic Factor Gene of Gossypium arboretum to enhance drought Tolerance	HEC	2.776 Million
5	Transformation of Gene Constructs and genetically engineered germplasm resource/commercial genotypes resistant to develop cotton leaf curl disease and /or its insect vector.	ICARDA	4.396 Million
6	Genetic Improvement of Cotton for Herbicide and bollworms Tolerance	HEC	2.77Million
7	Transformation of Bt Cotton with Transcription Factor Gene of Gossypium arboretum to Enhance Drought Tolerance	HEC	2.77Million
8	Development and commercialization of indigenous Bt and herbicide tolerant Maize hybrids	PARB	22.829Million
9	Genetic improvement of sugar cane for herbicide and Borer resistance	PARB	22.148Million
10	Development and commercialization of cotton leaf curl virus/tolerant indigenous transgenic Bt and glyphosate resistant cotton hybrids	PARB	35.776Million

DEPARTMENT OF BOTANY

- **Research & Development – An Overview**

- During the period under report 10 papers have been published in impact factor journals and 34 papers have been published in other journals by the faculty members. Similarly 08 research projects have been completed by the faculty members and 09 new research projects are in progress.

- **Projects (i) Completed**

Sr. No.	Principal investigator	Title of the Project	Duration	Amount in Rs.	Sponsored by
1.	Prof. Dr. Muhammad Saleem	Study of molecular diversity in coprophilous fungi (<i>Sordaria fimicala</i> Ascobolous immerses)	2012	2,50,000	University of the Punjab
2.	Prof. Dr. Faheem Aftab	Mitigation of salt stress in potato by exogenous application of phytohormones or their precursors. 1. IAA and Tryptophan”	2012	200,000	University of the Punjab



Sr. No.	Principal investigator	Title of the Project	Duration	Amount in Rs.	Sponsored by
3.	Dr. Abdul Nasir Khalid	Further additions to the Mashrooms of Lahore identification based upon molecular methods.	2012	200,000	University of the Punjab
4.	Dr. Humera Afrasiab	Callogenesis and micro propagation of medicinal plant Safflower (<i>Carthamus tinctorius</i> L).	2012	1,50,000	University of the Punjab
5.	Dr. Farkhanda Jabeen	Isolation and characterization of medicinally active compounds from <i>Centratherum anthelminticum</i> (purple fleebane) from Haripur Hazara, Pakistan	2012	1,50,000	University of the Punjab
6.	Dr. Ambreen Ahmad	<i>Abelmouschus esculentus</i> : Phytostimulation by <i>Enterobacter</i> sp.	2012	1,50,000	University of the Punjab
7.	Dr. Asma Zulfiqar	Role of organic acids in chelation of chromium ions in polluted soils	2012	1,25,000	University of the Punjab
8.	Dr. Abdul Rehman Khan Niazi	Taxonomic affinities of Amanitas (Amanitaceae, Agric ales) and their ectomycorrhiza from Himalayan moist temperate forests of Pakistan.	2012	1,50,000	University of the Punjab

• **Projects (ii) Newly Launched**

Sr. No.	Researchers	Title	Financial Support (Rs.)	Duration	Sponsoring Agency
1.	Prof. Dr. Muhammad Saleem	Molecular characterization of <i>Sordaria fimicola</i> .	2,50,000	2013	University of the Punjab
2.	Prof. Dr. Faheem Aftab	Effect of different cytokinins on in vitro seed germination and morphogenesis of teek (<i>Tecton grandis</i> L.) seedlings.	2,50,000	2013	University of the Punjab
3.	Dr. Abdul Nasir Khalid	Additions to the Mushrooms flora of Miandam (Swat) Pakistan.	200,000	2013	University of the Punjab
4.	Dr. Humera Afrasiab	Microtuberization of potato (<i>Solanum tuberosum</i> L.) variety Lady Rossetta.	1,50,000	2013	University of the Punjab
5.	Dr. Farkhanda Jabeen	<i>Isolation and characterization of Chlorfenapyr degrading bacteria from agricultural soil samples.</i>	1,50,000	2013	University of the Punjab
6.	Dr. Farhat Rass Masood	Vegetation and Climate during the deposition of patala formation, western salt range, Pakistan, based on palynological analysis.	1,50,000	2013	University of the Punjab



Sr. No.	Researchers	Title	Financial Support (Rs.)	Duration	Sponsoring Agency
7.	Dr. Ambreen Ahmed	Screening of heavy metal resistant-bacteria from contaminated sites and evaluation of their bioremediation potential.	1,50,000	2013	University of the Punjab
8.	Dr. Asma Zulfiqar	Differential Protein expression for <i>Brassica juncea</i> varieties differing in heavy metal tolerance.	1,50,000	2013	University of the Punjab
9.	Dr. Abdul Rehman Khan Niazi	Further additions to fungal flora of Man-made forest Changa Manga Pakistan.	1,50,000	2013	1,50,000

• Publications

- Iqbal Z., Hoessli D. C., Kaleem A., Munir J., Saleem M., Afzal I., Shakoori A.R., and Nasir ud Din. (2012). Influence of sequence environment and properties of neighboring amino acids on amino-acetylation: relevance for structure-function analysis. J. Cell. Biochem.. DOI 10.1002/jcb.24426
- Akram, M and Aftab, F. 2012. Effect of auxins on axillary and de-novo shoot regeneration from in vitro shoot cultures derived from forced epicormic buds of teak (*Tectona grandis* L.). Forestry Studies in China 14(3): 180-186.
- Aftab, F. 2012. Progress and prospects for an efficient micropropagation of woody plants. In: Crop production for agricultural improvement. Ashraf M., Öztürk M., Ahmad MSA., Aksoy, A. (Eds.). Springer. 363-377.
- Sajid, Z. A and Aftab, F. 2012. Role of salicylic acid in amelioration of salt tolerance in *Solanum tuberosum* L. Pak. J. of Bot., 44 (special issue): 37-42.
- Akram, M. and Aftab, F. 2012. Efficient micropropagation and rooting of King white mulberry (*Morus macroura* Miq.) Var. *Laevigata* from nodal explants of mature trees. Pakistan Journal of Botany, 44 (special issue): 285-289.
- Ejaz, B, Sajid, Z. A and Aftab, F. 2012. Effect of exogenous application of ascorbic acid on antioxidant enzyme activities, proline contents and growth parameters of *Saccharum* spp. hybrid cv. HSF-240 under salt stress. Turk J. Biol., 36: 630-640.
- Munir, N and Aftab, F. 2012. Improvement of salt tolerance in sugarcane by tissue culture- An approach towards crop improvement. Lambert Academic Publishing, Saarbrücken, Germany.
- Munir, N and Aftab, F. 2013. Changes in activities of antioxidant enzymes in response to NaCl stress in callus cultures and regenerated plants of sugarcane. J. Anim. Plant Sci. 23(1): 203-209.
- Munir, N and Aftab, F. 2013. Effect of NaCl stress on callus morphology and growth of sugarcane callus cultures (cv. SPF 234 and cv. HSF 240). Pak. J. Sci., 65(4): 473-477.



- Nawaz, R., Khalid, A. N., Hanif, M. and Razaq, A. 2013. *Lepiota vellingana* sp. nov Basidiomycota, Agaricales, A new species from Lahore Pakistan, Mycological Progress. DOI 10.1007/s11557-012-0884-0
- Razaq, A., Khalid A.N. and S. Ilyas. 2013. Molecular identification of *Lepiota acutesquamosa* and *L. cristata* (Basidiomycota, Agaricales) based on ITS-rDNA barcoding from himalayan moist temperate forests of Pak. Int. J. Agric. Biol., 15: 313-318.
- Hanif, M. and Khalid A.N. 2013. Intraspecific rDNA-ITS polymorphism within *Clavariadelphus subfastigiatus* (basidiomycota: gomphoid-phalloid clade) from Pak. Int. J. Agric. Biol., 15: 465-471.
- Saba, M. and Khalid A.N. 2013. Species diversity of genus *Puccinia* (Basidiomycota, Uredinales) parasitizing poaceous hosts in Pak. Int. J. Agric. Biol., 15: 580-584.
- Ilyas, S., Razaq, A. and Khalid, A. N. 2013. Molecular investigations to determine the ectomycorrhizal habit of *Lactarius sanguifluus* associated with coniferous and deciduous vegetation of Galyat (KPK), Pak. Int. J. Agric. Biol., 15:857-863.
- Saba, M. and Khalid, A. N. 2013. New rust species and hosts from Northern Areas of Pakistan. Mycotaxon, 123: 147-155.
- Fiaz, M., Khalid, A. N. and Ahmad, H. 2013. *Sporisorium linderi*, a new record for Asia. Mycotaxon, 123:229-231
- Denchev, C. M., Fiaz, M., Denchiv, T. T. Khalid, A. N. and Ahmad, H. 2013. Additions to the smut fungi of Pakistan. Mycotaxon, 123:255-260.
- Saba, M., Niazi, A. R. K. and Khalid, A. N. 2013. New records of Uredinales (Basidiomycota) from Azad Jammu and Kashmir and adjacent Northern Areas of Pakistan. Int. J. Agric. Biol., 15:878-884
- Ilyas, S., Razaq, A. and Khalid, A. N. 2013. *Inocybe nitidiuscula* and its ectomycorrhizae with *Alnus nitida* from Galyat, Pakistan. Mycotaxon, 124: 247-254.
- Afshan, N. S. and Khalid, A. N. 2013. Check list of the rust fungi on Poaceae in Pakistan. Mycotaxon, 125:17
- Ishaq, A., Afshan, N. S and Khalid, A. N. 2013. New reports of cyperaceous rust fungi from Pakistan. Mycotaxon, 125: 189-192
- Sarwar, S., Jabeen, S. and Khalid, A. N. 2013. Additions to ectomycorrhizae associated with *Populus ciliata* Wall. ex. Royle from J. Yeast and Fungal Res., 4(3): 26-32.
- Zahra, S. B. and Khalid, A. N. 2013. Role of some micromycetes in biosorption of heavy metals in different polluted water samples. J. Yeast and Fungal Res., 4 (7): 84-91.
- Yousaf, N., Niazi, A. R. and Khalid, A. N. 2013. *Myriostoma coliforme*, first record of rare and endangered gasteroid basidiomycetes from Pakistan. Int. J.f Microbiol. Mycology, 1(2): 1-6.
- Razaq, A., Ilyas, S. and Khalid, A. N. 2013. Molecular identification of *Marasmius oreades*-An edible mushroom from Pakistan based on ITS-rDNA sequence data. Pak. J. Agri. Sci., 50(3): 415-419.



- Razaq, A., Ilyas, S. and Khalid, A. N. 2013. Molecular and phenotypic descriptions of *Cystoderrella cinnabarina* from Western Himalaya (basidiomycetes, Agaricales): A New Genus for Pakistan. *J. Mycology*, ([dx.doi.org/10.1155/2013/793124](https://doi.org/10.1155/2013/793124)).
- Yousaf, N., Khalid A. N. and Niazi, A. R. 2013. Taxonomy of gasteroid fungi from some arid regions of Punjab, *J.f Biodiv. Environ. Sci.*, 3 (9): 253-263.
- Intzaar, S., Akram, M. and Afrasiab, H. (2013). Improved micropropagation protocol and high frequency multiple shoot formation of Pygmy Groundcherry (*Physalis minima*, L): an endangered plant. *In. J. Agri.e and Biol.*, 15:755-760. (I.F. 0.940).
- Malik K., Jabeen F., Talpur A. M., Andleeb S. and Farooq A., 2013 Pesticidal activity of Pakistani *Bacillus thuringiensis* isolates against *Helicoverpa armigera* (Hubner) and *Earias vittella* (Lepidoptera: Noctuidae). *IOSR J. Phar. Biol. Sci. (IOSR-JPBS) ISSN: 2278-3008. Volume 4, Issue 6*
- Malik, K. Nazir, S. Jabeen, F. Farooq, A. Andleeb, S. Ullah, A. Talpur, A. M. M, and Akram, H. 2012. Study on the combined insecticidal effect of pyrethroid, azadirachtaindica and boric acid on the *Bacillus thuringiensis* efficacy in *Tribolium castaneum*. *Afr. J. Microbiol. Res.*, 6(27); 5581-5585 (I.F: 0.564 ISSN 1996-0808)
- Malik, K. Iqbal S., S. Hasnain Jabeen F. , Effect of Calcium, Magnesium, Sodium and Potassium on farm plantations of various agroecological zones of Punjab, Pakistan, *African Journal of Plant Science* Vol. 5(5), pp. 450-459, May 2011 Available online at <http://www.academicjournals.org/ajps> ISSN 1996-0824 ©2011 Academic Journals.
- Malik, K. Iqbal S, Hasnain S., Shamsi, R. A, Jabeen F. Ferozewala, District Sheikhpura, (Punjab), Pakistan" for *Afr. J. Envir. Sci. Tech.* Vol. 5(4), pp. 316-326, April 2011 Available online at <http://www.academicjournals.org/AJEST> ISSN 1996-0786 ©2011 Academic Journals.
- Malik, K and Nizammi S. Andleeb, S. Farooq, A Jabeen, F. and Talpur, A. M. M, et al. (2012). Synergistic effect of Dichlorvos+Tetramethrin, Bougainvilleaglabra, Potassium chloride and *Bacillus thuringiensis* efficacy on *Tribolium castaneum* *Afr. J. Envir. Sci. Tech.*, I.F: 0.564 ISSN 1996-0808
- Malik, K. Pervaiz, S. Talpur, A. M. M, Farooq, A. and Jabeen, F. (2012). Biototoxicity assay of *Escherichia coli* against *Tribolium castaneum* *IOSR-Journal of Pharmacy & Biology* 4(5): 40-46 ISSN 2278-3008
- Zulfiqar A., Paulose B., Chhikara S., Dhanker O.P., Identifying genes and gene networks involved in chromium metabolism and detoxification in *Crambe abyssinica* *Environmental Pollution* (2011), 159 (10) 3123 - 3128
- Afshan, N.S. and Niazi A.R. 2013. Rust Fungi on some Poaceous weeds of wheat Crop in Pakistan. *Ind. J. Pharm. Bio. Res.* 1(4): 95-99



- Afshan, N.S. Khalid, A. N. and Niazi A.R. 2012. Some new rust fungi (Uredinales) from Fairy Meadows, Northern Areas, Pak. J. Yeast Fungal Res., 3(5): 65-73.
- Sarwar, S., Khalid A. N., Hanif M. and Niazi A. R. 2012. *Suillusflavidus* and its Ectomycorrhizae with *Pinus wallichiana* in Pakistan Mycotaxon, 121: 225-232 (IF: 0.709.)
- Jabeen S., Ilyas S., Niazi A. R. and Khalid A. N. 2012. Diversity of ectomycorrhizae associated with *Populus* spp., growing in two different ecological zones of Pakistan. Int. J. Agric. Biol., 14: 681-688 (IF: 0.940)
- Afshan N. S., Khalid A. N. and Niazi A. R. 2012. New record of *Puccinia* species on poaceae from Fairy Meadows, Pakistan. Mycotaxon, 120: 407-413 (IF: 0.709)
- Afshan N.S., Khalid A. N. Niazi A. R. 2012. Three new *Caeomas* species on *Rosa* spp. From Pakistan. Mycotaxon, 120: 239-246 (IF: 0.709)
- Yousaf N., Niazi A. R. and Khalid A. N. 2012. New records of note worthy Gasteroid fungi from Pakistan. Mycotaxon, 119: 261-267 (IF: 0.709)
- Yousaf N., Khalid A. N. and Niazi A. R. 2012. New records of *Scleroderma* species from Pakistan. Mycotaxon, 122: 43-50 (IF: 0.709)
- Niazi A. R., Yousaf N. and Khalid A. N. 2012. *Tulostoma Fimbriatum* Fr., (Basidiomycota, Gasteromycetes) a new record from Pakistan, Pakistan Journal of Botany.
- **Conferences, Seminars & Workshops etc.**
 - Dr. Faheem Aftab (Professor) attended Twelfth National and Third International Conference of Botany. Organized by Pakistan Botanical Society, held at Quaid-i-Azam University, Islamabad. September 1-3, 2012.
 - Dr. Faheem Aftab (Professor) attended International Conference on Advances in Plant Sciences (ICAPS 2012), November 14-18, 2012, Chiang Mai, Thailand.
 - Dr. Faheem Aftab (Professor) attended 8th International Symposium on in vitro culture and Horticultural Breeding', June 2-7, 2013. Coimbra, Portugal.
 - Dr. Abdul Nasir Khalid (Associate Professor) and Hanif, M., Imran, A. Attended Ectomycorrhiza of Himalayan alder (*Alnus nitida*) from moist temperate forests of Pakistan. Asian Mycological Congress 2013 and 13th International Marine and Fresh Water Mycology Symposium (19-23 Aug. 2013). China.
 - Dr. Humera Afrasiab, (Assistant Professor) attended one day Seminar on "World Forest Day" organized by Punjab Forest Research Institute (PFRI), Gutwala, held at Jallo Forest Park Lahore on March 21, 2013.
 - Dr. Farkhanda Rahim attended Workshop on Pakistan's National Biodiversity Clearing House Mechanism, March 26, 2013. At Lahore organized by WWF-Pakistan.



- Dr. Farkhanda Rahim attended Seminar on BIO-PHYSCOCHEMICAL BASIS FOR TECHNOPRENEURSHIP. 2nd to 3rd April, 2013. Organized by MMG and IBA Departments, University of the Punjab, Lahore.
- Dr. Farkhanda Rahim attended International Conference on Application of Molecular Biology in Medicine and Agriculture. August 20-22, 2013. Organized by Department of Biochemistry, Quaid-i-Azam University, Islamabad, Pakistan.
- Dr. Ambreen Ahmed (Assistant Professor) attended conference entitled "Bio-physiochemical basis for Technopreneurship" 2-3 April 2013, organized by MMG at Centre of Undergraduate studies, University of the Punjab, Lahore.
- Dr. Ambreen Ahmed (Assistant Professor) attended conference on Bioinformatics, 8th April 2013 at National Centre for Physics, Quaid-e-Azam University, Islamabad.
- Dr. Ambreen Ahmed (Assistant Professor) attended 1st women Intercollegiate and University Sciences Model and poster competition on "Impact of Biotechnology in Today's World" on 12th March, 2013 at Department of Biotechnology, LCWU, Lahore.
- Dr. Ambreen Ahmed (Assistant Professor) attended workshop on "Research Ethics", Endnote and Turnitin 2-3 October 2012 at the Department of Library and Information Science, University of the Punjab, Lahore.
- Dr. Ambreen Ahmed (Assistant Professor) attended workshop on "Quantitative data analysis using SPSS" 29th September 2012, at Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Dr. Ambreen Ahmed (Assistant Professor) attended one day workshop on "PCR Technology" on 2nd February, 2013 at Centre for Undergraduate Studies, University of the Punjab, Lahore.
- Dr. Ambreen Ahmed (Assistant Professor) attended 1st National workshop on "Computational Tools" on 9-12 April, 2013 at National Centre for Physics, Quaid-e-Azam University, Islamabad.
- Dr. Ambreen Ahmed (Assistant Professor) attended 2nd Youth innovation workshop 29 - 30th August, 2013 organized by NAYS.
- Dr. Ambreen Ahmed (Assistant Professor) attended workshop on "Mixed method research using SPSS and NVivo software" on 1st June, 2013 organized by Office of Research Innovation and Commercialization (ORIC), at Centre for Undergraduate studies, University of the Punjab, Lahore.

RESEARCH COLLABORATION

• Indigenous

- Prof. Dr. Muhammad Saleem has research collaboration with Dr. Habib Ullah at LUMS and Dr. Shaukat at PCSIR, Lahore.



- Dr. Abdul Nasir Khalid has research collaboration with Dr. Habib Ahmed (Hazara University, Mansehra)
- Dr. Abdul Nasir Khalid has research collaboration with Dr. Muhammad Fiaz (Hazara University, Mansehra)
- Dr. Abdul Nasir Khalid has research collaboration with Dr. Zafar Iqbal (University of the Punjab, Lahore)
- Dr. Abdul Nasir Khalid has research collaboration with Dr. Abdul Rehman Khan Niazi, University of the Punjab, Lahore
- Dr. Abdul Nasir Khalid has research collaboration with Dr. Najamul Sehar Afshan, University of the Punjab, Lahore.
- Dr. Abdul Nasir Khalid has research collaboration with Dr. Muhammad Hanif, Govt. College University, Lahore.
- Dr. Abdul Nasir Khalid has research collaboration with Dr. Samina Sarwar, Lahore College for Women University, Lahore.
- Dr. A. R. Niazi has research collaboration with Prof. Dr. Habib Ahmad, Hazara University, Mansehra, KPK. Pakistan.
- Dr. A. R. Niazi has research collaboration with Dr. Shaukat Bhatti, University of Azad Jammu and Kashmir.
- Dr. A. R. Niazi has research collaboration with Prof. Dr. Shamshad, Institute of Chemistry, University of Punjab, Lahore.
- Dr. A. R. Niazi has research collaboration with Dr. Shakil Ahmad, Institute of Agriculture Sciences, University of the Punjab, Lahore.
- Dr. A. R. Niazi has research collaboration with Dr. Hanif Ahmad, Govt. College University, Lahore.
- Dr. A. R. Niazi has research collaboration with Dr. Samina, Lahore College for Women University, Lahore.
- **Foreign Linkages**
 - Professor Dr. M. Saleem is collaborating for research with Prof. Nevo and Dr. Bernard Lamb, Imperial College, UK.
 - Dr. A. N. Khalid is collaborating for research with Dr. Reinhard Berndt (ETH, Switzerland)
 - Dr. A. N. Khalid is collaborating for research with Dr. Cvetomir M. Denchev, Bulgaria
 - Dr. A. N. Khalid is collaborating for research with Dr. Jacques Guinberteau, France
 - Dr. A. N. Khalid is collaborating for research with Dr. Moreno, G. (Spain)
 - Dr. A. N. Khalid is collaborating for research with Dr. Kreisel, H. (Germany)



- Dr. A. N. Khalid is collaborating for research with Dr. Bryn Masson Dentinger (Royal Botanical Garden, Kew, UK)
- Dr. A. N. Khalid is collaborating for research with Dr. Donald Fister (Havrad University, USA)
- Dr. A. N. Khalid is collaborating for research with Dr. Tom D. Bruns (University of California, USA)
- Dr. A. R. Niazi is collaborating for research with Dr. Rodham E Tulloss, New Jersey, USA.
- Dr. A. R. Niazi is collaborating for research with Prof. Dr. Zhu L. Yang, China.
- Dr. A. R. Niazi is collaborating for research with Dr. Alejendra Becerra, Argentina.
- Dr. A. R. Niazi is collaborating for research with Dr. Xavier Parlade, Spain.
- Dr. A. R. Niazi is collaborating for research with Dr. Slavomir Adamicik, Czech.

DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS

- **Research & Development – An Overview**

- Department of Microbiology and Molecular Genetics has state of the art facility for research in microbiology, genetics, and biotechnology. The more specific research areas in which most of the faculty members and their BS, MSc, MS/MPhil and PhD student are working include: human genetics, bacterial biofilm formation and its control, metal detoxification and water treatment, agricultural microbiology, biofertilizers, biopesticides, microbial ecology, industrial microbiology, drugs and antibiotics discovery, bioplastics, immunology, virology, cancer genetics and medical microbiology etc. The Research projects completed and the research papers published by the faculty members in peer reviewed national and international journals speaks about the strength of research potential of the department.

- **Projects (i) Completed (ii) Newly Launched**

- Screening for the antibacterial effect of ginger and turmeric on cell wall constituents and polypeptide profiling of bacterial strains. Punjab University, Lahore of worth Rs. 200,000, PI: Dr Anjum Nasim Sabri.
- Isolation and characterization of mercury resistant nitrogen fixing bacteria and determination of their ability to detoxify mercury (2011-12). University of the Punjab, Lahore, of worth Rs. 200,000, PI: Dr. Zakia Latif.
- Isolation and characterization of biosurfactant producing bacteria from oil-contaminated soil samples (2011-12). University of the Punjab, Lahore, of worth Rs. 200,000, Principle Investigator, Dr Sikander Sultan.
- Functional and Molecular Diversity of Pinus roxburghii Rhizospheric Bacterial Communities (2011-12). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Muhammad Faisal.
- Screening and Optimization of Bioplastic by Bacteria using Wastewater (2011-2012). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Nazia Jamil.



- Generation of stress tolerant rice plants using tissue culture techniques (2011-2012). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Ms Tahira Malik.
- Isolation and characterization of thermostable alkaline protease producing bacteria from local environment (2011-12). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Abdul Rehman.
- The insecticidal activity of Streptomyces species isolated from the saline soils of Kalar Kahar, Punjab, Pakistan. Punjab University Research Grant 2011-2012, of worth Rs. 150,000, PI: Dr. Imran Sajid.
- Evaluation of plant growth promoting rhizobacteria as non-rhizobial inoculants for leguminous plant (2011-12). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Basharat Ali.
- Seroprevalence of Dengue IgG and IgM antibodies in patients suspected of having Dengue fever (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, Principle Investigator, Dr Nageen Hussain.
- Analysis of polyketide synthase genes from actinomycetes and their structural comparison, (2011-12). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr. Mehboob Ahmed.
- Preparation of multi-diagnostic immune-chromatographic device to diagnose common viral infections (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr. Zaigham Abass.
- Comparison of dengue virus NS1 gene sequences from patients suffering with dengue fever (DF) and Dengue hemorrhagic fever (DHF) (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Dr Shafiq ur Rehman.
- Microbial columns: as source of chromium (VI) removal (2011-12). University of the Punjab, Lahore, of worth Rs. 125,000, Principle Investigator, Dr. Rida Batool.
- Role of MSX1 mutations in Pierre Robin sequence and non-syndromic cleft lip and/or cleft palate in Pakistani population, (2011-2012). University of the Punjab, Lahore, of worth Rs.125000, PI: Dr. Saira Malik.
- Antibiotic susceptibility profile among E.coli from clinical and environmental isolates (2011-12). University of the Punjab, Lahore, of worth Rs.125,000, PI: Dr. Saba Riaz.
- Effect of antibiotic resistance of isolates of Staphylococcus aureus to induce reactive metabolites in human polymorphonuclear leukocytes (2011-2012). University of the Punjab, Lahore, of worth Rs. 125,000, PI: Mr. Numan Javed.

(ii) Newly Launched

- Screening for the effect of ginger extracts on embryo development and angiogenesis in chicken eggs (2011-2012). Submitted Punjab University. PI: Dr Anjum Nasim Sabri



- Enhancement of Polygalacturonase Production by Mutation in Bacillus Strains. (2012- 2013). University of the Punjab, Lahore, of worth Rs. 200,000, PI. Dr Zakia Latif.
- Characterization of chromium (VI) reducing bacteria and their plant growth promoting characteristics. Funded by the University of the Punjab, Lahore, 2012-2013, of worth Pak Rs. 200,000, PI: Dr Sikander Sultan.
- Isolation and Characterization of Biosurfactant Producing Bacteria from Oil Contaminated Sites (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, PI. Dr Muhammad Faisal.
- Generation of variability for stress tolerance in rice (2012-2013). University of the Punjab, Lahore, of worth Rs.150,000 Principle Investigator, Ms Tahira Malik.
- Isolation and characterization of ethanol producing yeasts from local environment (2012-13). University of the Punjab, Lahore, of worth Rs. 150,000, PI. Dr. Abdul Rehman.
- Screening and Optimization of Bioplastic by Bacteria using Wastewater (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, PI. Dr. Nazia Jamil.
- Auxin production and biofertilization potential of plant associated Bacillus spp. under different water regimes (2013-2016). Higher Education Commission of Pakistan, of worth Rs. 36, 94, 260. PI. Dr. Basharat Ali.
- Screening of alkaliphilic actinomycetes for antimicrobial compounds against multi drug resistant (MDR) bacterial pathogens (2012-2013), University of the Punjab, Lahore, worth Rs. 150,000, Principal Investigator, Dr. Imran Sajid.
- Hexavalent chromium reduction by bacterial strains isolated from tannery waste (2012-13). University of the Punjab, Lahore, of worth Rs. 1, 25,000, PI: Dr. Rida Batool.
- Mutational analysis of DNase I gene in SLE patients (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, Principle Investigator, Dr Nageen Hussain.
- Mutational analysis of prph2 gene in patients of retinitis pigmentosa, cone-rod dystrophy and other macular dystrophies (2012-2013). University of the Punjab, Lahore, of worth rs. 150,000, principle investigator, Dr. Saira Malik.
- Antibacterial activity of natural products against medically important gram positive bacteria (2012 -2013). University of the Punjab, Lahore, of worth Rs. 125,000, Principle Investigator, Dr Saba Riaz.
- The use of probiotic bacteria as an alternative therapeutic agent of Diabetes Mellitus (DM) (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, PI: Dr. Zaigham Abass.
- Preparation of immune-chromatographic device for early diagnosis of Dengue virus infection (2012-2013). Higher Education Commission, Pakistan of worth Rs. 500,000, Principle Investigator, Dr. Zaigham Abbas.



- Isolation and characterization of lytic bacteriophages against *Pseudomonas aeruginosa* (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, Principle Investigator, Dr Shafiq ur Rehman.
 - Identification and Validation of Promising Drug Targets and Anti- targets for Cancer Therapy within the Mevalonate Pathway (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, PI. Dr. Nousheen Zaidi.
 - Start-up Research Grant from HEC of worth Rs. 500,000, (Dec 2012 - July 2013) by Dr. Nousheen Zaidi.
 - Anticancer Therapy: Targeting De Novo Lipid Synthesis (2013-2016). Funded by National Research Program for Universities (NRPU), HEC of worth Rs. 16.4 million, PI. Dr. Nousheen Zaidi, CoPI. Dr. Nazia Jamil.
 - Equipment Grant - Punjab University- Grant for the purchase of Cell Culture Hood (2013). Amount 250,000 PKR.
 - Identification and validation of promising drug targets and anti-targets for cancer therapy within the Mevalonate pathway. Startup Research Grant of PKR 0.48092 million. Higher Education Commission funded Research Project (2012) Dr. Nousheen Zaidi PI. Dr. Nazia Jamil CoPI.
 - Isolation, Characterization and Fatty Acids Production Potential of Indigenous Cyanobacterial Isolates (2012-2013). University of the Punjab, Lahore, of worth Rs. 150,000, Principle Investigator, Dr Mehboob Ahmed.
 - Molecular epidemiology of MRSA on the basis of Spa typing from different hospitals of Lahore (2012-2013). University of the Punjab, Lahore, of worth Rs. 125,000, PI. Mr. Nauman Javed.
 - Ms Warda Fatima was Awarded Rs. 250,000/- for the research work in Genetic studies of psychiatric disorders under the budget head "Lump sum provision for research" by University of the Punjab, 6th June, 2013.
 - Bioremediation of Arsenic Using Photosynthetic Bacteria (2012-2013). University of the Punjab, Lahore, of worth Rs. 125,000, Principal Investigator, Mr. Yasir Rehman.
 - Design and molecular docking of HIV I integrase inhibitors (2013-2014). University of the Punjab, Lahore, of worth Rs. 250,000, Principal Investigator, Ms Ammara Khalid , Co-PI :Dr Anjum Nasim Sabri.
- **Publications**
 - **Research Articles**
 - Waheed, A., and Sabri, A.N, 2012. Bacterial exopolysaccharide and biofilm formation stimulate chickpea growth and soil aggregation under salt stress. *Brazilian Journal of Microbiology*. 43(3): 1183-1191. Impact factor 0.896.



- Hameed, A., and Hasnain. 2012. Isolation and molecular identification of metal resistant *Synechocystis* from polluted areas. *African Journal of Microbiology Research*, 6(3), pp. 648-652. Impact Factor 0.539
- Hussain, A., and Hasnain, S., 2012. Comparative assessment of the efficacy of bacterial and cyanobacterial phytohormones in plant tissue culture. *World Journal of Microbiology and Biotechnology*, 28: 1459-1466. Impact Factor 1.532
- Iqbal, A., and Hasnain, S., 2012. *Aeromonas punctata* PNS-1: a promising candidate to change the root morphogenesis of *Arabidopsis thaliana* in MS and sand system. *Acta Physiologiae Plantarum*. DOI: 10.1007/s11738-012-1106-8 Impact Factor 1.639
- Kiran, M., Afrasayab, S., Abbas, Z., Faisal, M., and Hasnain, S. 2012. Plant growth promoting capability of *Azotobacter* as mono and mix culture on *Vigna radiata*. *African Journal of Microbiology Research*, 6: 1291-1296. Impact Factor 0.539
- Nazir, S. and Latif, Z. 2012. Screening of natural extracts for their antibacterial activity against different enteric pathogens isolated from soil, water and rotten fruit samples. *African Journal of Microbiology Research*, 6(40): 6864-6870.
- Tariq, A. and Latif, Z. 2012. Isolation and Biochemical Characterization of Bacterial Isolates Producing Different Levels of Polygalacturonases from Various Sources. *African Journal of Microbiology Research*, 6(45): 7259-7264.
- Zakia Latif and Muhammad Sohail (2012). Molecular characterization of polygalacturonase producing *Klebsiella* and *Staphylococcus* species by 16S rRNA sequencing collected from rotten fruits and vegetables. *African Journal of Microbiology Research*, 6(46): 7319-7323.
- Ilyas, S., Sultan, S. and Rehman, A., 2012. Decolourization and degradation of azo dye, Synozol Red HF6BN, by *Pleurotus ostreatus*. *Afr. J. Biotechnol.*, 11(88): 1522-1529. (I.F. 0.00)
- Javaid, M. and Sultan, S. 2013. Plant growth promotion traits and Cr (VI) reduction potentials of Cr (VI) resistant *Streptomyces* strains. *Journal of Basic Microbiology*, 53: 420-428. (Impact Factor: 1.266)
- Zaidi N. et al. 2013. Lipogenesis and lipolysis: the pathways exploited by the cancer cells to acquire fatty acids. *Progress in Lipid Research*, 52(4): 585-589. (Impact Factor: 10.69).
- Ejaz, S., Rizvi, F. Z., S, Anwar. Faisal, M. 2013. Biotransformation potential of Cr (VI) by *Bacillus pumilus*-S4, *Pseudomonas doudoroffii*-S5 and *Exiguobacterium*-S8 in association with hydrophytes. *Int J Environ Sci Technol*, 10: 709-718. . (IF: 1.844).
- Yasin, M., Faisal, M and Sultan, S. 2013. Growth responses of *Triticum aestivum* after inoculating with *Pseudomonas* and *Stenotrophomonas*. *Afr J Microbiol Res*, 7: 1952-1956.
- Yasir, R., Rizvi, F. Z., Faisal, M and Hasnain, S. 2013. Arsenic and chromium reduction in Co-cultures of bacteria isolated from industrial sites in Pakistan. *Microbiology*, 82(4): 428-433. (IF: 0.718).



- Reza, F.A and Faisal, M. 2013. Growth promotion of maize by desiccation tolerant *Micrococcus luteus*-chp37 isolated from Cholistan desert, Pakistan. *Aust J Crop Sci*, 7(11):1693-1698.
- Ilyas, S. and Rehman, A., 2013. Decolorization and detoxification of Synozol red HF-6BN azo dye, by *Aspergillus niger* and *Nigrospora* sp. *Iranian J. Environ. Health Sci. Engineer.*, 10(12): 1-9. (I.F. 1.227)
- Sulman, S. and Rehman, A. 2013. Isolation and characterization of cellulose degrading *Candida tropicalis* W2 from environmental samples. *Pakistan J. Zool.*, 45(3): 809-816. (I.F. 0.309)
- Sadiq, A. and Ali, B. 2013. Growth and yield enhancement of *Triticum aestivum* L. by rhizobacteria isolated from agronomic plants. *Aust J Crop Sci.*, 7(10): 1544-1550.
- Akram, W., Anjum, T., Ali, B. and Ahmad, A. 2013. Screening of native *Bacillus* strains to induce systemic resistance in tomato plants against *Fusarium* wilt in split system and its field applications. *Int J Agric Biol.*, (Accepted/ In press). (IF 0.808)
- Tanveer, R., Sajid, I., Hasnain, S. 2013. Screening of endophytic streptomycetes isolated from *parthenium hysterophorus* L. against nosocomial pathogens. *Pakistan Journal of Pharmaceutical Sciences* 26(2): 277-283.
- Sajid, I., Shaaban, K, A., Hasnain, S. 2013. Purification and identification of bioactive angucyclinones from *Streptomyces matensis* BG5, isolated from the rhizosphere of *Rosa indica* L. *Preparative Biochemistry and Biotechnology* 43:22-32. DOI:10.1080/10826068.2012.693897
- Tanveer, R., Sajid, I., Hasnain, S. 2013. Screening for type I polyketide synthases genes of endophytic streptomycetes isolated from *Parthimiun hysterophorus* L. *Molecular Genetics, Microbiology and Virology*. 28(1):32-39.
- Bashir, M. F., Haider, M. S., Rashid, N. Riaz, S. 2013. Core gene expression and association of genotypes with viral load in HCV infected patients of Punjab Pakistan. *Tropical Journal of Pharmaceutical Research*, 12(3): 335-341. (IF 0.820)
- Bashir, M. F., Haider, M. S., Rashid, N., Riaz, S. 2013. Association of Biochemical Markers, Hepatitis C Virus and Diabetes Mellitus in Pakistani Males. *Tropical Journal of Pharmaceutical Research*, ACCEPTED (IF 0.820)
- Naeem, A., Batool, R., and Jamil, N. 2013. Cr(VI) reduction by *Cellulosimicrobium* sp. isolated from tannery effluent. *Turkish Journal of Biology*, 37(3): 315-322. (I.F: 0.876).
- Hussain, N. and Jaffery, G. 2013. Distribution of HLA alleles in SLE patients with ACE I/D polymorphism. *Bosnian Journal of Basic Medical Sciences*, 13(1): 58-62. (IF: 0.415)
- Hussain, N. 2013. Levels of IL-15 in SLE patients. *International journal of Medicine and Medical Sciences*. 46 (2): 1159-1162. (IF=3.328)
- Hussain, N. 2013. Clinical and Laboratory manifestations of SLE in Pakistani Lupus patients. *Pakistan Journal of Zoology*, 45(3): (IF= 0.338).



- Malik S, Wilcox ER, Naz S. 2013. Novel lip pit phenotypes and mutations of IRF6 in Van der Woude Syndrome Patients from Pakistan. *Clinical Genetics*. DOI: 10.1111/cge.12207
- Alam, S. S., Riaz, S. and M. Waheed Akhtar, M. W. 2012. Effect of high dose thiamine therapy on activity and molecular aspects of transketolase in Type 2 diabetic patients. *African Journal of Biotechnology*, 10(75): 17305-17316.
- Alam, S. S., Riaz, S. and M. Waheed Akhtar, M. W. 2012. Effect of High Dose Thiamine Therapy on Risk Factors in Type 2 Diabetics. *J Diabetes Metab.*, 3:10 (IF 3.784)
- Yasir Rehman and Shahida Hasnain. 2013. Metagenomics to unveil microbiome of human body. *J Bacteriol Parasitol*. 4:1.
- Aatif Amin and Zakia Latif (2013). Detoxification of Methylmercury Pollutant by Immobilized Yeast Strain (*Candida xylopsoci*). *Pakistan Journal of Botany* Vol. 45, No. 4,1437-1442.
- Ammara Khalid, Saima Kulsoom, Navida Riaz. 2013. DTAF: Design and molecular docking of antioxidant lead compound and its analogues acting as human tyrosine kinase inhibitors. 5(4): 3), 75-80.

Book / Book Chapters

- Sabri, A.N., Sabri, S., Sultan, S. 2012. Metallurgical microscopy of Bacterial biofilm representing Cr^{+6} conversion into Cr^{+3} by *Acinetobacter calcoaceticus*, *Staphylococcus aureus* and *Oscillatoria* strain. IN: *Current microscopy contributions to advances in science and technology (the "publication")* Published by FORMATEX RESEARCH CENTER - C/ Zurbaran 1, 2nd Floor, Office 1, 06002 Badajoz, Spain, PP 749-755.
- Nawaz, H and Faisal, M. 2012. *Biosurfactant producing Bacteria: Screening and role in oil biodegradation*. ISBN 978-3-659-16195-7. LAP Lambert Academic Publishing.
- Abdul Rauf Shakoori and Abdul Rehman" *Protozoan Fauna of Industrial Wastes and their Role in Bioremediation*" Published by VDM Verlag Dr. Muller GmbH & Co.KG, Dudweiler Landstr. 99, 66123 Saarbrucken, Germany.
- Nousheen Zaidi and Hubert Kalbacher. *Cathepsin E*, Invited chapter in: *The Handbook of Proteolytic Enzymes 3rd Edition*. 2012.
- Riaz, S. and Alam, S. S. 2012. *STUDY OF DIABETIC HYPERTENSIVE NEPHROPATHY IN THE LOCAL POPULATION OF PAKISTAN*. *Diabetic Nephropathy*, Book edited by: Prof. Dr. John S.D. Chan. Ph.D, CRCHUM- Hôtel-Dieu Hôpital Montréal, Québec, Canada. ISBN 978-953-308-11-6. <http://www.intechweb.org/>, p147-166.
- **Conferences, Seminars & Workshops etc.**
 - Dr Anjum Nasim Sabri Attended and participated in Turnitin Academy Live: Developing critical skills with peer Mark. A one-hour online class on 09 October, 2012.



- Dr Anjum Nasim Sabri Attended and participated in Turnitin Academy Live: offering meaningful feedback with grade Mark comments. A one-hour online class on 16 October, 2012.
- Dr Anjum Nasim Sabri Attended and participated in Turnitin Academy Live: Faster easier grading with grade mark rubrics. A one-hour online class on 23 October, 2012.
- Dr Anjum Nasim Sabri Attended and participated in Turnitin Academy Live:grading with common core state standards aligned rubrics. A one-hour online class on 30 October, 2012.
- Dr Anjum Nasim Sabri Attended and participated in Turnitin Academy Live: Developing critical skills with peer Mark. A one-hour online class on 09 October, 2012.
- Dr Anjum Nasim Sabri Attended and participated in Turnitin Academy Live: Formative assessment with turnitin. A one-hour online class on 06 November, 2012.
- Dr Anjum Nasim Sabri Attended one day discussion by Bioresource Group Organized by MMG department, University of the Punjab Lahore.11 october, 2012
- Dr Anjum Nasim Sabri Attended one day seminar on "Genomic approaches in dissecting soyabean resistance to SDS. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 23 November 2012.
- Dr Anjum Nasim Sabri attended and participated in 3rd International symposium on "biomedical materials:recent Advances and challenges." Jointly Organized by CIIT Comsat Lahore, de'montmorency college of dentistry and KEMU . 18-20 December,2012.
- Dr Anjum Nasim Sabri participated in "ninth international biennial conference of Pakistan Society for Microbiology. Organized by PSM and Karachi University.Pakistan. 28-31 January, 2013.
- Dr Anjum Nasim Sabri participated in "10th Annual conference on infectious diseases" organized by Shaukat Khanum Memorial Cancer Hospital and research Centre,Lahore. 22-23 Feburary,2013.
- Dr Anjum Nasim Sabri attended and participated in "biophysicochemical basis for technopreneurship" jointly organized by MMG and IBA, University of the Punjab, Lahore, 2-3rd April,2013.
- Dr Anjum Nasim Sabri attended one day workshop on "Fourier transform infrared spectroscopy: organized by CITT, Comsat, Lahore.5th September,2013.
- Dr Anjum Nasim Sabri organized on day Hands on training workshop on "Basic Biosafety Measures in research" in collaboration with NAYS.Pakistan 27th September, 2013.
- Dr. Zakia Latif Attended and presented poster on "Bioremediation of methylmercury from the environment by immobilized yeast strains" in ninth international biennial conference of Pakistan Society for Microbiology at University of Karachi, Pakistan from Jan. 28-31, 2013.
- Dr. Zakia Latif was Member of organizing committee of symposium "Bio-physicochemical basis for technopreneurship" organized by department of Microbiology and Molecular Genetics and Institute of Business administration, University of the Punjab, Lahore Pakistan from April 2-3, 2013.



- Dr. Zakia Latif Attended and presented poster on "Bioremediation of mercury compounds using immobilized nitrogen fixing bacteria" in International Conference on application of molecular biology in medicine and agriculture at Quaid-e-Azam University, Islamabad, Pakistan from Aug. 20-22, 2013.
- Dr. Zakia Latif Attended and presented poster on "Antibacterial activity of Nigella sativa (Kalvanji) against different strains of Salmonella characterized by microsatellite fingerprinting and 16SrRNA sequencing" in International Conference on application of molecular biology in medicine and agriculture at Quaid-e-Azam University, Islamabad, Pakistan from Aug. 20-22, 2013.
- Dr. Sikander Sultan presented poster in Ninth International Biennial Conference of Pakistan Society for Microbiology (NIBC-PSM), organized by Department of Microbiology, University of Karachi, Karachi in collaboration with American Society for Microbiology, January 28-31, 2013.
- Dr. Sikander Sultan was Member Organizing Committee "Bio-physicochemical basis for Technopreneurship" jointly organized by Department of Microbiology and Molecular Genetics & Institute of Business Administration, University of the Punjab, Lahore, April 2-3, 2013.
- Dr. Sikander Sultan attended the Two day conference on "Biophysicochemical basis for technopreneurship" organized by Department of Microbiology and Molecular Genetics, at Al Raazi Hall, Centre for Undergraduate Studies, University of the Punjab, Lahore, April 2-3, 2013.
- Dr. Sikander Sultan presented poster entitled "Aerobiological analysis of indoor and outdoor environments in different wards of a hospital in Lahore, Pakistan" at Bioaerosols and the Built Environment Conference 2013 at University of Leeds, UK organized by Faculty of Engineering, University of Leeds, June 26-27, 2013.
- Dr. Sikander Sultan was Member Organizing Committee: One Day workshop on "Basic Biosafety Measures in Research" organized by Department of Microbiology and Molecular Genetics, University of the Punjab in Collaboration with National Academy of Young Scientist (NAYS), on 27th September, 2013.
- Dr. Sikander Sultan attended: One Day workshop "Basic Biosafety Measures in Research" organized by Department of Microbiology and Molecular Genetics, University of the Punjab in Collaboration with National Academy of Young Scientist (NAYS), on 27th September, 2013.
- Dr. Muhammad Faisal attended and participated in two days conference on "Bio-Physicochemical Basis for Technopreneurship" organized by Department of Microbiology and Molecular Genetics and IBA, University of the Punjab, Lahore on 2-3 April, 2013.
- Dr. Muhammad Faisal attended two days summit "Invention to Innovation" in the University of the Punjab, Organized by ORIC, PSF and IRP on 9-10 April, 2013.



- Dr. Muhammad Faisal attended one day workshop on "FTIR" in COMSATS, Lahore, on 5th of September, 2013.
- Ms. Tahira Malik Participated in 'Inovation to invention summit 2012" University of Punjab, Lahore.
- Ms. Tahira Malik had Poster presentation in the conference on Bio-physicochemical basis for technopreneurship, April 2-3, 2013 at PU, LHR.
- Ms. Tahira Malik Worked as convener in conference on Bio-physicochemical basis for technopreneurship, April 2-3, 2013 at PU, LHR.
- Dr. Abdul Rehman attended a seminar "Mathematical models and experimental evolution to study genetic interactions and evolution of synthetic microbial communities" held under the auspices of School of Biomolecular Sciences, Washington State University, USA, on March 28, 2013.
- Dr. Nazia Jamil act as Organizing Secretary Conference on "Biophysicochemical Basis for Technopreneurship". Pakistan. April 2-3, 2013.
- Dr. Nazia Jamil attended 2nd International Conference on Bioscience, Biochemistry and Pharmaceutical Sciences (ICBBPS'2013), Dubai. March, 17-18, 2013.
- Dr. Nazia Jamil attended "ISTIC-Future University-IDB Training Workshop on Technopreneurship". Khartoum, Sudan. December 2-6, 2012.
- Dr. Nazia Jamil attended One week training course on "Office Management for Officer" organized by Punjab Institute of Management and Professional Development. Pakistan. September 10-14, 2012.
- Dr. Imran Sajid attended: Advanced faculty professional training program for "Ensuring Training Effectiveness" (ETE), organized by LID-HEC Pakistan, in collaboration with Asian Institute of Technology (AIT) Bangkok, Thailand, held from 26th November to 14th December, 2012, at AIT, Bangkok, Thailand.
- Dr. Imran Sajid presented his work (Oral presentation) in "Ninth International Biennial Conference of Pakistan Society for Microbiology" January, 28-31, Karachi, Pakistan.
- Dr. Imran Sajid was Member Organizing Committee of two days seminar "Bio-physicochemical basis for technopreneurship" organized by department of MMG, University of the Punjab, Lahore, 2-4 April, 2013.
- Dr. Basharat Ali attended and participated in two days conference on "Bio-Phsicochemical Basis for Technopreneurship" organized by Department of Microbiology and Molecular Genetics and IBA, University of the Punjab, Lahore on 2-3 April, 2013.
- Dr. Rida Batool attended the 3rd International Symposium on Biomedical Materials: Advances and Challenges organized by Interdisciplinary Research Center in Biomedical Materials (IRCBM)



COMSATS Institute of Information Technology at Pearl Continental Catering, Lahore from December 18-19, 2012 and presented poster entitled "Use of bacterial columns to remove the hexavalent chromium".

- Dr. Rida Batool attended the Ninth International Biennial conference of Pakistan Society of Microbiology: Vector borne viral diseases and surveillance and control at Karachi from January 28-31, 2013 and gave poster presentation.
- Dr. Rida Batool attended the 2nd International Conference on Bioscience, Biochemistry and Pharmaceutical Sciences (ICBBPS'2013) at Dubai from 17-18 March, 2013 and gave oral presentation entitled "Remediation of Cr(VI) by chromium reducing bacteria in blend with different biowaste ingredients".
- Dr. Rida Batool attended and organized the Two day conference on "Biophysicochemical basis for technopeneurship" organized by Department of Microbiology and Molecular Genetics, at Al Raazi Hall, Centre for undergraduate studies, University of the Punjab Lahore-Pakistan, April 2-3, 2013 and gave poster presentation entitled Rice husk as an efficient biowaste ingredient for the removal of Cr(VI).
- Dr. Rida Batool attended: One Day workshop "Basic Biosafety Measures in Research" organized by Department of Microbiology and Molecular Genetics, University of the Punjab in Collaboration with National Academy of Young Scientist (NAYS), on 27th September, 2013.
- Dr. Nageen Hussain, gave oral presentation on "Distribution of HLA alleles in SLE patients with ACE I/D polymorphism". in an International Conference on Environmental, Biological, social sciences and Engineering, Lucerne, Switzerland, 15-16 October, 2012.
- Dr Nageen Hussain attended Conference on Bio-physicochemical basis for Technopreneurship, Department of Microbiology and Molecular Genetics, University of the Punjab, 2-3 April, 2013.
- Dr Nageen Hussain presented research work (Oral Presentation) on "Effect of smoking on Renin Angiotensin system" in the 5th International conference on Environmentally sustainable Development held from August 25-27, 2013 at COMSATS Institute Abottabad.
- Dr. Saira Malik attended workshop entitled "Fire prevention at home course for ladies no. 37" at Federal civil defense training school, sector B-II, Township, Lahore on November 5-16, 2012.
- Dr. Saira Malik attended and hosted conference entitled "Bio-physicochemical basis for Technopreneurship" at department of Microbiology and Molecular Genetics, University of the Punjab, Lahore on April 2-3, 2013.
- Dr. Saira Malik attended Preliminary meeting of HEC National Curriculum revision committee at Institute of Food Science and Technology, Agricultural University, Faisalabad on 23-25 September 2013.



- Dr. Saba Riaz presented poster entitled "Lactose fermenting members of Enterobacteriaceae causing septicemia held in 9th international biennial conference of Pakistan Society for Microbiology Jan 28-31, 2013 Karachi Pakistan.
- Dr Saba Riaz attended: One day Seminar by Himont Pharmaceuticals, March 12, 2013, Organized by MMG, Punjab University, Lahore.
- Dr. Saba Riaz presented talk entitled "Natural Therapy Against Multidrug Resistant Strains (MDRs).. International 33rd Pakistan congress of Zoology. April 2-4, 13 Organized by Zoological Society of Pakistan. at Islamabad.
- Dr. Saba Riaz presented poster entitled Impact Of Bacteriocins Producing Against Multidrug Resistant Pseudomonas Spp and Antimicrobial activity of I on methicillin resistance (MDR) Biophysicochemicabasis for technopreneurship April 2-3,13 Organized by MMG, Punjab University, Lahore.
- Dr Saba Riaz attended: Workshop on Gas Chromatography, June 8th 2013. Organized by School of physical sciences and ORIC, Punjab University.
- Dr. Saba Riaz, Abstract published in FEMS Abstract Book not presented due to visa refusal. 5th Congress of European Microbiologists (FEMS 2013). Impact of putative bacteriocins against Multidrug Resistant isolates. Leipzig, Germany (July 21-25, 2013).
- Dr. Zaigham Abbas attended Training workshop titled, Professional Ethics, Management & Grooming: Assessment and Evaluation, at University of the Punjab in collaboration with Learning Innovation Division HEC. (February 4-8, 2013).
- Dr. Zaigham Abbas Organized 'Bio-Physicochemical basis for technopreneurship' at Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore Pakistan. Presented poster entitled "Nano-gold mediated detection of NS1: an early diagnostic marker of Dengue Virus" (2-3 April 2013).
- Dr. Zaigham Abbas Attended "National Workshop on recombinant technologies in vaccine development" held at UVAS, Lahore (11 April, 2013).
- Dr. Zaigham Abbas Organized 2nd Youth Innovative Workshop at University of the Punjab in collaboration with National Academy of Young Scientists and The Emerging Nations Science Foundation (ENSF) Italy, (29-30 August, 2013).
- Dr. Zaigham Abbas Organized hands on training workshop on "Biosafety Measures in Research" at Department of Microbiology and Molecular Genetics, University of the Punjab in collaboration with National Academy of Young Scientists. (27 September, 2013).
- Dr Shafiq ur Rehman attended the "2nd In-Service Faculty Training Program: Professional Ethics, Management & Grooming: Assessment & Evaluation. Held at University of the Punjab, Lahore on Feb 4-8, 2013. Organized by LID-HEC and University of the Punjab, Lahore.



- Dr Shafiq ur Rehman attended and organized the Conference "Bio-Physicochemical basis for technopreneurship" held at Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore Pakistan on 2-3rd April 2013.
- Dr Shafiq ur Rehman attended the "National Workshop on recombinant technologies in vaccine development held at UVAS, Lahore on 11-04-2013.
- Dr. Nousheen Zaidi attended Symposium: Tumor Metabolism meets Immunology at Regensburg, Germany, April 2013 and presented "Low-lipid environment may affect proliferation and reliance of cancer cells on de novo lipid synthesis pathways".
- Dr. Nousheen attendant Symposium on Biomedical Materials: Advances and Challenges. Lahore, Pakistan, December 2012. Poster presented by M.Phil. Student - Ms. Rimsha Munir "Plasma lipid profile patterns in cancer patients versus normal subjects".
- Dr. Nousheen Zaidi presented "Diagnostic and prognostic relevance of blood lipid profiles with cancer: An issue of ambiguity". Poster presented by M.Phil. Student - Ms. Rimsha Munir - at Conference on Bio-Physicochemical Basis for Technopreneurship, Punjab University, Lahore, Pakistan. April 2013.
- Dr. Nousheen Zaidi presented "Targeting the mevalonate pathway for cancer therapy". Poster presented by B.S. Student Mr. Jaffer Hussain at Conference on Bio-Physicochemical Basis for Technopreneurship, Punjab University, Lahore, Pakistan. April 2013.
- Dr Mehboob Ahmed Presented in Second National Phycological Conference, Department of Botany, University of Karachi, Karachi (15-17 October, 2012)
- Dr Mehboob Ahmed Attended Workshop on "Impact of Higher Education in the Social Adjustment of Women in Islamic Perspectives in Pakistan" by IER, Kohat University of Science & Technology in collaboration with Higher Education Commission of Pakistan at IER, University of the Punjab, Lahore (30 November, 2012)
- Dr Mehboob Ahmed Acted as Judge in exhibition of research project poster presentation, in Provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with Intel-corporation Pvt. Ltd. (09 December, 2012)
- Dr Mehboob Ahmed Presented in "9th International Conference of Pakistan Society for Microbiology" being held at Department of Microbiology, The University of Karachi, Karachi. (28-31 January, 2013)
- Dr Mehboob Ahmed Attended Five days 2nd In Service Faculty Training Program by Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore and Learning Innovation Division (LID), Higher Education Commission (HEC) Pakistan (04 - 08 February, 2013)



- Dr Mehboob Ahmed Attended Bio-Phsicochemical Basis for Technopreneurship organized by Department of Microbiology and Molecular Genetics (MMG) and Institute of Business Administration University of the Punjab, Lahore. (02 - 03 April, 2013)
- Dr Mehboob Ahmed Attended and Presented in Invention to Innovation Summit 2013 organized by PU's Office of Research Innovations and Commercialization, Ministry of Science and Technology, Pakistan Science Foundation and Institute of Research Promotion (IRP). (09 - 10 April, 2013)
- Dr Mehboob Ahmed Attended "International Workshop on Bioinformatics Tools in Structural Biology" Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Karachi. (26-28 August, 2013)
- Dr Mehboob Ahmed Attended workshop on "Hands-on Training-Fourier Transform Infrared Spectroscopy" held at Interdisciplinary Research Centre in Biomedical Materials, COMSATS Institute of Information Technology (CIIT), Lahore. (05 September, 2013)
- Mr. Numan Javed presented Poster at the 14th International Congress on Antiphospholipid Antibodies & 4th Latin American Congress on Autoimmunity APLA & LACA, 18-21 September, 2013 in Rio de Janerio, Brazil.
- Mr. Numan Javed attended 4th Advanced Faculty Professional training program of "Ensuring Effectiveness of Training" at Asian Institute of Technology (AIT), Bangkok, Thailand. 26 November- 14 December 2012.
- Mr. Numan Javed was member organizing committee: Bio-physical basis for Technopreneurship" at Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore in collaboration with Institute of Business Administration (IBA), 2-3rd April 2013.
- Ms Shabana attended Conference on 'Biophysicochemical basis for Technopreneurship' organized by Department of Microbiology and Molecular Genetics, 02-04 Apr, 2013.
- Ms Shabana attended Workshop on New Faculty Orientation Program organized by Institute of Administrative Sciences, 02-05 Jul, 2013.
- Ms Shabana attended National Traning Workshop on Advanced Techniques in Gene Expression Analysis, organized by National Institute for Biotechnology and Genetic Engineering, 23-27 Sep, 2013.
- Ms Shabana attended Seminar by BioRad on Changing Mindset and building capacity for Innovation and commercialization (Western Blotting, NGC chromatography system, Digital/Droplet PCR), 26 sep, 2013.
- Ms Warda Fatima Presented a paper entitled "Leptin deficiency and leptin gene mutations in obese children from Pakistan' in the conference of weight management held by Govt. College of Home Economics, Lahore held on Nov. 3, 2012.



- Ms Warda Fatima Presented a poster "Leptin replacement therapy: a treatment of childhood obesity" in Conference on Bio-physicochemical basis for Technopreneurship held by Department of Microbiology and Molecular genetics, University of the Punjab on April 2-3, 2013.
- Ms Warda Fatima Attended New Faculty Orientation Program 2013 held by Institute of Administrative Sciences, University of the Punjab from 2nd to 5th, July 2013.
- Mr. Yasir Rehman attended: "2nd In-Service Faculty Training Program: Professional Ethics, Management & Grooming: Assessment & Evaluation" organized by LID-HEC, University of the Punjab, Lahore, on 4-8 February, 2013.
- Mr. Yasir Rehman presented poster entitled "Arsenic reduction in co-cultures" in Bio-Physicochemical Basis for Technopreneurship conference 2012 held in Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore Pakistan, April 2-3, 2013.
- Mr. Yasir Rehman attended: One Day workshop "Fourier Transform Infrared Spectroscopy" organized by IRCBM-CIIT Lahore, on 1st July, 2013.
- Mr. Yasir Rehman presented poster entitled "Arsenic reduction by Enterobacter cloacae and Klebsiella pneumoniae isolated from industrial areas of Punjab, Pakistan" 5th Congress of European Microbiologists, FEMS-2013, held in Leipzig, Germany, July 21-25, 2013.
- Mr. Zeeshan Akbar attended CCNA (Cisco Certified Network Associate) Training(11th February 2013 - 29th March, 2013).
- Mr. Zeeshan Akbar attended CCNP (Cisco Certified Network Professional, Route) Training (01st April 2013 - 15th May, 2013).
- Ms Ammara Khalid Organized and attended: Two Days Workshop "Bio-physicochemical basis for Technopreneurship" at the University of the Punjab, Lahore.

RESEARCH COLLABORATION

• Indigenous

- Ms. Ayesha Dildar, MPhil student King Edward Medical College (MPhil in progress), under the supervision of Prof. Dr. Anjum Nasim Sabri.
- Solid State Physics Mohd Yousaf (2012) From Solid state Physics, University of the Punjab Lahore. worked on biocorrosion.
- Ms. Riffat Yousuf of the Institute of Biotechnology and Bioinformatics, University of Veterinary and Animal Sciences completed internship from April to June, 2012, under the supervision of Dr. Muhammad Faisal.
- Mr Adeel, BS student, CEES, PU, completed his research under the Co- supervision of Dr. Nazia Jamil.
- Ms. Fatima Muslim and Ms. Sunila Yousaf of the College of Home Economics, Gulberg, Lahore, completed their MSc research, from March to September, 2012 under the supervision of Dr. Imran Sajid.



- Student from College of Home Economics Gulberg, Lahore, completed her MSc Research in the department under the supervision of Dr. Imran Sajid.
- Research collaboration with Gulab Devi Chest Hospital Lahore and a M.phil. student under supervision of Dr. Imran Sajid completed a part of research in Gulab Devi Chest Hospital.
- Ms. Attia and Ms. Rabila of the, faculty of Biotechnology and Informatics, Balochistan University of Information Technology, Engineering and Management Sciences (BUIEMS), Quetta, completed a part of their MS research, from June to August, 2012, under the supervision of Dr. Imran Sajid.
- Mr. Asmat Ullah of the Department of Microbiology, University of Balochistan, Quetta, completed one month internship under the supervision of Dr. Imran Sajid.
- Ms. Aqsa Abbas of the Department of Biochemistry and Biotechnology, Islamia University of Bahawalpur (IUB) completed internship from 5th June to 18th July-2012 under the supervision of Dr. Imran Sajid.
- Mr. Usman Aftab, PhD scholar under the supervision of Dr. Imran Sajid of our department did collaborative experiments related to the antitumor assays against different human cell lines, in Veterinary Research Institute (VRI) Lahore.
- Ms Taiba Afreen and Ms Qurat-ul-Ain of the Institute of Biotechnology and Bioinformatics, University of Veterinary and Animal Sciences completed internship, from April to June, under the supervision of Dr. Mehboob Ahmed.
- Two Students from Institute of Biotechnology and Bioinformatics, University of Veterinary and Animal Sciences completed their BS internship under the supervision of Dr. Mehboob Ahmed.
- Two students from Department of Applied Chemistry, University of Engineering and Technology did part of their MPhil research work under the supervision of Dr. Mehboob Ahmed.
- One student from Fatima Jinnah Women University, Rawalpindi did her MPhil research work under the supervision of Dr. Mehboob Ahmed.
- Dr. Saba Riaz's students of BS (Sammyya Abrar) and M. Sc (Saliha Hafiz) did research work in collaboration with Gulab Devi Chest Hospital Lahore.
- Student from Department of Biology, LUMS
- **Foreign Linkages**
 - Robert Thomas Bachmann, Universiti Kuala Lumpur. Malaysian Institute of Chemical and Bioengineering Technology. Lot 1988 Taboh Naning, 78000 Alor Gajah Melaka, Malaysia.
 - Ting Yen Peng (Associate Professor), Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore.
 - Prof. Dr. Juliana A. Ramsay, Chemical Engineering, Queen's University, Canada
 - Dr. Colin Jackson, Department of Biology, The University of Mississippi, USA



- Prof. Dr. Jurgen Rohr, Director: Drugs Discovery Division, Department of Pharmaceutical Sciences, College of Pharmacy, University of Kentucky, USA.
- Prof Dr. Robert Capon, Director: Structural Biolog Division, Institute for Molecular Biosciens, University of Queensland, Australia
- University of Helsinki, Finland
- Dr. Jonathan K Ball, Professor, University of Nottingham, UK
- Dr. Arvind Patel, Honorary lecture, Medical Research Council, University of Glasgow, UK
- Dr. Jean Dubuisson, Center for Infection & Immunity of Lille (CIIL), Inserm U1019, CNRS UMR8204, Univ Lille Nord de France
- Dr. Mansun Law, CSripps Research institute, Department of Immunology and Microbial Science, California Campus, US
- Dr. Mats A A Persson, Molecules of Man AB, Mossvägen 12, Sweden
- Steven Foug, Professor, Stanford University Blood Center, Hillview Avenue, Palo Alto, CA.
- Department of Biology, Colorado State University, Fort Collins, Colorado 80523-1878, USA.
- Auburn University, Alabama, USA.
- Virus Research Group, School of Molecular Medical Sciences, University of Nottingham, UK
- **Funding Grants for R&D**
 - Auxin production and biofertilization potential of plant associated Bacillus spp. under different water regimes (2013-2016). Higher Education Commission of Pakistan, worth Rs. 36, 94, 260. Principal Investigator, Dr. Basharat Ali.
 - Screening for antitumor/anticancer compounds from indigenous actinomycetes (2013 awarded) Higher Education Commission of Pakistan, of worth 8.66136 million PKR, PI Dr. Imran Sajid.
 - Preparation of immune-chromatographic device for early diagnosis of Dengue virus infection (2012-2013). Higher Education Commission, Pakistan of worth Rs. 500,000, Principle Investigator, Dr. Zaigham Abbas.
 - Fine mapping of Hepatitis c virus envelope protein 2 region/residues responsible for resistance from autologous antibodies and broadly neutralizing antibody 1:7, (2012-2013). Higher Education Commission, of worth Rs. 500,000, Principle Investigator, Dr. Shafiq ur Rehman.
 - Start-up Research Grant from HEC of worth Rs. 500,000, (Dec 2012 - July 2013) by Dr. Nousheen Zaidi.
 - Anticancer Therapy: Targeting De Novo Lipid Synthesis (2013-2016). Funded by National Research Program for Universities (NRPU), HEC of worth Rs. 16.79 million, PI. Dr. Nousheen Zaidi, CoPI. Dr. Nazia Jamil.
 - Research Grant for Lab Supplies- Grant for developing eukaryotic cell culture facility at MMG (2013). University of the Punjab, of worth Rs. 250,000, PI. Dr. Nousheen Zaidi.



- Equipment Grant - Grant for the purchase of Cell Culture Hood (2013). University of the Punjab, of worth Rs. 250,000, PI. Dr. Nousheen Zaidi.

DEPARTMENT OF SPORTS SCIENCES & PHYSICAL EDUCATION

- **Conferences, Seminars & Workshops etc.**

- Two Day workshop on Hand Ball Coaching Course with collaboration of Pakistan Hand Ball Federation.

DEPARTMENT OF ZOOLOGY

- **Research & Development – An Overview**

- The Department of Zoology, a discipline of natural sciences, meets the need of trained manpower in a vast basic and interdisciplinary framework concerning animal sciences. The Department has earned international recognition for academic excellence and prominence in various fields of research like Cell biology, Molecular Biology, Physiology, Developmental Biology, Entomology, Microbiology, Palaeontology, Parasitology, Environmental Biotechnology, Toxicology, Clinical Endocrinology, Fisheries etc.
- Punjab University Fish Research Farm comprises of an area of 5 acres, including nursery ponds, research ponds and production ponds. Now students are working in various areas of fisheries such as fish disease, fish physiology, fish nutrition etc; taking full benefits of this facility created at Quaid-i-Azam Campus, Lahore. Students from other universities also use the facilities of Fish Research Farm for their studies. In addition to teaching and research some fishes are also available for sale to the faculty and staff members of the Punjab University. Approximately 2500-3000kg fish is annually sold to the employees of Punjab University. In near future the Fish Research Farm will be upgraded as institute of Aquaculture, where teaching and research will be carried out at undergraduate and postgraduate level for development of the fisheries and aquaculture sector.
- In view of economic importance of honeybee farming, University of the Punjab has embarked upon research and development activities on honeybee from 2004 onwards. The European bee *Apis mellifera* farm comprising 200 hives has been established at the campus. Research work is being carried out for improvement in management techniques, quality queen breeding and control of pests and diseases to increase honey yield of colonies. Further infra-structure is being developed for teaching and research facilities. Beekeeping training programmes and workshops for honeybee management have been organized at the campus for dissemination of technical knowledge among students, farmers, extension workers, officers of alien department and hobbyists. Special emphasis is being given on generating awareness about the crucial factor of bee pollination required for increased productivity of oilseed, vegetable seed, fodder seed crops and fruits in Pakistan.



- Most of the research projects going on in the department are funded by Higher Education Commission, Pakistan Agriculture Council, Pakistan Science Foundation, University of the Punjab, Lahore and some other funding agencies.

- **Projects (i) Completed**

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)
Prof. Dr. Tanveer Akhtar University of the Punjab Higher Education Commission Pakistan (HEC)[PIN#074-0551-Bm4-033]	Malaria: molecular basis of drug resistance in Pakistan scenario. May 2008 Dec 2012	0.72
Prof. Dr. Tanveer Akhtar/ University of the Punjab Higher Education Commission Pakistan (Pin # 20 1370/R&D/09)	A Comprehensive analysis of BCR-ABL, kinase domain mutations in CML patients receiving Imatinib treatment and their association with resistance/susceptibility to Imatinib In progress,	4.1
Prof. Dr. Javed Iqbal Qazi University of the Punjab, Lahore	Cultivation of H ₂ -yielding bacteria in food wastes	0.2
Dr. Abida Butt Pakistan Scientific Federation	Effects of Agricultural practices and refugir on pest control potential of spider residing rice field of Punjab, Pakistan	1.7
Dr. Zafar Iqbal University of the Punjab, Lahore	Parasitic infection in some imported tropical ornamental fishes:	0.2
Dr. Abida Butt University of the Punjab, Lahore	Effect of alternative pray and habitat structure on cannibalism in <i>L. terrestris</i> (Aranae, lycosidae)	0.2
Dr. Nabila Roohi University of the Punjab	Serum protein profile of textile industry workers as resolved by SDS-PAGE.	0.2
Dr. Farah Rauf Shakoori University of the Punjab	Heavy metal (Cu and Cr) uptake by Paramecium Species	0.25
Dr. Najma Shaheen University of the Punjab	Isolation and characterization of antimicrobial substance secreting bacteria from dairy products and citrus fruits.	
Dr. Nadeem Sheikh University of the Punjab, Lahore	Toxic effects of acute intra-peritoneal administration of iron and copper in Wistar Rat. 1 Year	0.15
Dr. Nadeem Sheikh HEC	Fat induced Inflammation, Iron overload and Impact of fat reducing agents in <i>Rattus norvegicus</i> . 3 Year	
Dr. Nadeem Sheikh HEC	Mycotechnological production of laccase by <i>Pleurotus ostreatus</i> 3 Year	



(ii) Newly Launched

Name of Researcher/ Sponsoring Agency	Title of Research Project with duration	Financial Support (million Rupees)
Prof. Dr. Javed Iqbal Qazi University of the Punjab, Lahore	Cultivation of Heavy metals resistant bacteria in low cost media (2012-2013).	0.25
Dr. Zafar Iqbal University of the Punjab, Lahore	“Health Status of Fishes of River Ravi at Head Balloki District Kasur”	0.2
Dr. Nabila Roohi University of the Punjab	Clinical application of two dimensional gel electrophoresis in identifying the health hazards to workers of dyeing unit in a textile industry.	0.2
Dr. Abida Butt University of the Punjab, Lahore	Effect of neonicotinoid insecticides on survival and detoxification enzymes of lyconid spider	0.2
Dr. Najma Shaheen Funded by: University of the Punjab	Toxicological assessment of essential oils of selected aromatic plants belonging to family Ruteceae	
Dr. Nadeem Sheikh HEC	Obesity induced inflammation in rats and changes in the expression of acute phase and iron metabolism proteins 3 Years	4.0

- Publications**

- Prof. Dr. Muhammad Akhtar

- Khan, M.A, Akhtar, M. and Ikram T. 2012. True ungulates from the Nagri Type Locality (Late Miocene), Northern Pakistan. J. Anim. Pl. Sci. 22(1): 1-59. (Impact Factor=0.585).
- Ghaffar, A., Akhtar, M., Khan, M.A., Khan, A.M., Samiullah, K. and Iqbal, M. 2012. Discovery of Antler from a New Site in the Pinjor Formation (Pleistocene) of Pakistan. Journal of Geological Society, India. 80: 119-122 (Impact Factor=0.596) (International publication).
- Ghaffar, A. and Akhtar, M. 2012. New fossil record of Hyaenictitherium pilgrimi (Carnivora: Hyaenidae) from Dhok Pathan Formation of Hasnot, Pakistan. Swiss J. Palaeontol. 131: 275-281. (International publication).
- Samiullah, K. and Akhtar, M. 2012. New fossil remains of Listriodon from the Chinji Zone near Dhok Bun Ameer Khatoon, Chakwal District, Salt Range, Punjab, Pakistan. J. Sci. Technol MSU. 31(1): 25-32. (International publication).
- Bhatti, Z.H., Khan, M.A. and Akhtar, M. 2012. Hydaspathierium (Artiodactyla: Giraffidae) from the Dhok Pathan Formation of the Middle Siwaliks, Pakistan: New Collection. Pakistan J. Zool., 44(3): 799-808. (Impact Factor=0.338).



- Khan, M.A., Akhtar, M., Iliopoulos, G. and Hina. 2012. Tragulids (Artiodactyla, Ruminantia, Tragulidae) from the Middle Siwaliks of Hasnot (Late Miocene), Pakistan. *Rivista Italiana di Paleontologia e Stratigrafia*. 118(2): 325-341 (Impact Factor=0.725) (International publication).
- Ali, M., Khan, M.A. and Akhtar, M. 2012. New Fossils of Elachistoceras (Bividae : Mammalia) from Chinji Formation (Middle Miocene) of Pakistan. *Pakistan J. Zool.*, 44(4): 909-913. (Impact Factor=0.338).
- Khan, M.A & Akhtar, M. 2013. Tragulidae (Artiodactyla, Ruminantia) from the Middle Miocene Chinji Formation of Pakistan. *Turkish J Earth Sci*, 22: 339-353 (Impact Factor=0.95).
- Iqbal Mahboob, Prince A, Khan M. A Nayyer A.Q & Akhtar, M. 2013 Ecology and Population Status of Hog Deer from Norowal, Pakistan *International Research Journal of Biological* 2 (7): 1-6.
- Khan, M.A, Iqbal M., Nayyer A.Q & Akhtar 2013. Teraconodon (Mammalia: Artiodactyla: Suidae) from the Late Miocene Dhok Pathan Formation of Pakistan: *Pakistan Journal of Zoology*, Vol. 45(4) PP 975-980, 2013.
- Khan, M.A, Batool A., Nayyer A.Q, & Akhtar 2013. Gazella Lydekkeri (Cetartiodactyla: Ruminatia: Bovidae) from the Middle Siwaliks of Hasnot (late Miocene), Pakistan: *Pakistan Journal of Zoology*, Vol. 45(4) PP 981-988, 2013.

Prof. Dr. Tanveer Akhtar

- Saleem, M.R., Tanveer, A., Asma, A.L., and Ammara, H.T., 2012. Significant reduction of malaria in the Punjab, Pakistan after introduction of roll back malaria strategy in 2003. *Med.Forum* <http://www.medforum.pk/index.php>, ISSN 1029-385X
- Tayybah, S. and Tanveer, A., 2012. Assessment of chromium toxicity in *Cyprinus carpio* through hematological and biochemical blood markers. *Turk., J. Zool.*, 36(1):1-9. (Impact Factor = .591). <http://journals.tubitak.gov.tr/zoology>
- Fakhari-Abbas, Kathreen E. Ruckstuhl, Afsar Mian, Tanveer, A, Thomas P. Rooney. 2012. "Distribution, population size and structure of Himalayan grey goral *Naemorhedus goral bedfordi* (Cetartiodactyla: Bovidae) in Pakistan". *Mammalia*, 76(2): 143-147. (Impact Factor 0.808) <http://www.degruyter.com/view/j/mamm>
- Iqbal, Z., Awan, T., Iqbal, M., Sabir, N., Asad, S., Siddique, H., Seher, S., Tahir, A.H., Aleem, A., Tanveer, A 2012. High frequency of BCR-ABL oncogene in pediatric acute lymphoblastic leukemia (ALL) patients as revealed by RT-PCR and interphase FISH: Association with disease biology and treatment outcome. *J. of Clin. Oncol*, 30, (suppl; abstr 6612. Online version. (Impact Factor= 18 .97). www.jco.org
- Saleem, M.R., Latif, A.A., and Tanveer, A. 2012. Predictors of Dengue fever and Dengue haemorrhagic in Punjab, Pakistan. *Med.Forum*, 23(1): 26-30. <http://www.medforum.pk/index.php>, ISSN 1029-385X



- Sahar, S., T. Akhtar, H. Bilal and M. S. Rana. 2012. Prevalence of Plasmodium falciparum malarial parasite in Muzaffargarh District, Punjab, Pakistan. Pakistan J. Sci., 64(1):64-66 www.pass.com.pk/volumearchive.php, ISSN 0030-9877
- Tayybah, S. and Tanveer, A., 2012. Teratological effects of various sub lethal concentrations of chromium hexavalent on gills of Cyprinus carpio. Int.J. of Agri. and Biology, 14(2):318-320. (Impact Factor = 0.98).
- Sabir, N., Iqbal Z., Aleem, A., Awan, T., Tahir Naeem., Asad, S., Ammara H Tahir., Absar M., Rana, Hasanat, R.N.W., Basit, S., Chishti, M.A., Faiyaz-Ul-Haque, M., Khalid, A.M., Sabar, M.F., Rasool, M., Karim, Sajjad., Khan, M., Samreen, B., Afia M. Akram, Siddiqi, M.H., Shahzadi, S., Shahbaz, S., Shabbir, A.A., Mahmood, A., Akram, M., Saeed, T., Saleem, A., Mohsin, D., Ijaz, H, S., Khalid, M., Asif, M., Iqba, M., Akhtar, T., 2012. Prognostically significant fusion oncogenes in Pakistani patients with adult acute lymphoblastic leukaemia and their association with disease biology and outcome. Asian Pacific J. of Cancer Prevention, 13(6/7):(accepted) .Authors 1-5 contribute equally to this article and thus share first authorship. Asian Pacific J. Cancer Prevention, 13: 3349-3355. DOI:<http://dx.doi.org/10.7314/APJCP.2012.13.7.3349> (Impact Factor=0.659) <http://www.apocpcontrol.org/>
- Qureshi, A.W., Tanveer, A., Maqbool, A. and Niaz, S. 2012. Seasonal and monthly prevalence pattern of fascioliasis in buffaloes and its relation to some climatic factors in northeast Punjab, Pakistan. Iranian J. Vet. Res., 13(2)39:134-137. www.shirazu.ac.ir, (Impact Factor = 0.28)
- S. Niaz, T. Akhtar, Sial, N. and Hassanat, H. 2012. Punica granatum (Pomegranate, fruit-rind) as an alternative medicine for parasitic diseases. Int.J. Appl. Sci., 1(3):82-86. <http://www.insii.com/showarticle.php?serial=3>, ISSN 1925-3869
- Iqbal. Z., Noreen. S., Aamer. A., Tashfeen. A., Naeem. T., Sultan. A., Tahir. A. H., Absar. M., Chishti. M. A., Faiyaz-ul-Haque. M., Khalid. A. M., Sabar. M. F., Rasool. M., Ali. A. S., Mahmood. A., Akram. M., Saeed. T., Arsalan. S., Mohsin. D., Shah. I. H., Khalid. M., Asif. M., Iqbal. M., and Akhtar. T., 2012, Detection of five common fusion oncogenes in Pakistani children with acute lymphoblastic leukemia and their association with clinical pattern and treatment outcome, Blood, (ASH Annual Meeting Abstracts) 2012 120: Abstract 5124, (Impact Factor= 9.898) ISSN 1528-0020 <http://abstracts.hematologylibrary.org/cgi/content/abstract/120/21/5124>
- Z. Iqbal, S. Noreen, A. A Iqbal. Z., Noreen. S., Aamer. A., Tashfeen. A., Naeem. T., Sultan. A., Tahir. A. H., Absar. M., Chishti. M. A., Faiyaz-ul-Haque. M., Khalid. A. M., Sabar. M. F., Rasool. M., Ali. A. S., Mahmood. A., Akram. M., Saeed. T., Arsalan. S., Mohsin. D., Shah. I. H., Khalid. M., Asif. M., Iqbal. M., and Akhtar. T., 2012. Characterization of common fusion oncogenes as prognostic molecular identities in adult acute lymphoblastic leukemia identifies the need for genetic testing at presentation, molecular prognostication and differential treatment. Blood, (ASH Annual



- Meeting Abstracts) 2012 120: Abstract 5115 (Impact Factor= 9.898) ISSN 1528-0020, <http://abstracts.hematologylibrary.org/cgi/content/abstract/120/21/5115>
- Khan. M.A., Tanveer. A., M. Shafiq, M.Younus, T.J.Gill, K.Ashraf, M.K.Shahzad, H.J.Iqbal. 2012. Present Status of Hydatidosis in the Buffaloes of Punjab, Pakistan. *Journal of Animal and Plant Sciences*, 22(4 Suppl.): 514-517 (Impact Factor= 0.59) ISSN 1018-7081
 - Sahar. S., Akhtar. T., Bilal, H. and Rana.M. S., 2012. Prevalence Of Plasmodium Falciparum, Malarial Parasite In Muzaffargarh District, Punjab-Pakistan: A Two Year Study. *Pakistan Journal of Science*, Vol. 64 (1): 64-66 <http://www.paas.com.pk/introduction.php>. ISSN 0030-9877
 - Tashfeen. A., Iqbal. Z., Aamer. A., Noreen. S., Absar. M., Rasool., Tahir. A. H., B. Sulman., Khalid. A. M., Sabir. M.F., Sultan. A., Ali. A. S., Mahmood. A., Akram. M., Saeed. T., Arsalan. S., Mohsin. D., Shah. I. H., Khalid. M., Asif. M., Riaz-ul-Haque., Iqbal. M., Tanveer. A., 2012. Five most common prognostically important fusion oncogenes are detected in the majority of Pakistani pediatric acute lymphoblastic leukemia patients and are strongly associated with disease biology and treatment outcome. *Asian Pacific Journal of Cancer Prevention*, 3399 Vol 13, (Impact Factor=0.659) ISSN 11 http://www.apocpcontrol.org/page/apjcp_issues.php
 - Iqbal. Z., Aamer. A., Iqbal. M., Naqvi. I.M., Gill. A., Taj. S.A., Qayyum A., Najeeb ur-Rehman., Shah. I. H., Khalid.M., Riazul Haq., Khan. M., Baig., M.S., Jamil. A., Abbas. N.M., Absar. M., Mahmood. A., Rasool. M., Tanveer. A., 2013. Sensitive detection of pre-existing BCR-ABL kinase domain mutations in CD34+ Cells of newly diagnosed chronic-phase chronic myeloid leukemia patients is associated with imatinib resistance: Implications in the Post-Imatinib Era. *PLOS*. Vol. 8 Issue 2 www.plosone.org
 - Qureshi,A.W.,Tanveer,A, Sheikh. N.; 2013. Effect of Nigella sativa and Fumaria parviflora on Serum protein profiles of naturally infected Buffaloes (*Bubalus bubalis*) with *Fasciola* Sp.v. *HealthMed*. Vol 7 pp 333-337. www.healthmedjournal.com. (Impact Factor = 0.435) ISSN:1840-2291
 - Shahida, A. A., Tanveer,A., Maqbool. A., Majid, Z. A., Wajid, S. A., Muhammad, Q. F. 2013. Poor personal hygiene and socioeconomic status promoted ancylostomiasis in children residing in urban areas of Lahore. . *Int. J.Zoology and Rese.*, (IJZR) 3 (2) : 9-18, ISSN 2278-8816 <http://tjprc.org/search.php> (Impact Factor = 1.64)
 - Shahida, A. A., Tanveer,A., Majid, Z. A., Wajid, S. A., 2013.Echinococcosis is an emerging public health problem in Pakistan. *International Journal of Medicine and Pharmaceutical Science (IJMPS)* 3 (2) : 39-48, ISSN 2250-0049 <http://tjprc.org/journals.php?jtype=2&id=51> (Impact Factor = 4.8723)



- Shahida, A. A., Tanveer,A., Maqbool. A., Majid, Z. A., Amina, A., 2013. Pet owners motivate dogs to contaminate soil, promoting echinococcosis. International Journal of Zoology and Research (IJZR) 3 (2) : 39-50, ISSN 2278-8816 <http://tjprc.org/search.php>
- Shahida, A. A., Tanveer,A., Maqbool. A., Hussain. A., Ikram. S., 2013. Ancylostoma duodenale separated from contaminated soil. Int. J.Zoology and Rese., (IJZR) 3 (2) : 27-38, ISSN 2278-8816 <http://tjprc.org/search.php> (Impact Factor = 0.95)
- Shahida, A. A., Tanveer,A., Maqbool. A., Majid, Z. A., 2013. Two unusual cases of adult HCV patients infected with geohelminth (Enterobius vermicularis). Int. J.Zoology and Rese., (IJZR) 3 (2) : 39-50, ISSN 2278-8816 <http://tjprc.org/search.php> (Impact Factor = 2.89)
- Latif. A. A., Tanveer, A., Anjum, A. A., Ali, M. A., Rana.M. S., Khan, M. R. and Ahmad, M.A., 2013. Characterization of hydatid cyst fluid from ruminants and humans by sds-page in Punjab, Pakistan. The Journal of Animal & Plant Sciences, 23 (2) : 405-410, ISSN: 1018-7081. <http://www.thejaps.org.pk> (Impact Factor = 0.585)
- Iqbal, Z., Tashfeen, A., Iqbal, M., Sabir,N., Aleem,A., Khalid.A.M., Tanveer, A.,2013. "High frequency of BCR-ABL in pediatric acute lymphoid leukemia with poor outcome identifies the immediate need for incorporation of imatinib and other tyrosine kinase inhibitors in treatment protocols" 18th Congress of the European Hematology Association, Amsterdam, Netherland. www.ehaweb.org
- Shahida, A. A., Tanveer,A., Mahmood, K., Wajid, S. A., 2013. Spatial Distribution of Ancylostomiasis in soil of Slums of Northern Lahore. Journal of Agriculture and Veterinary Science (IOSR-JAVS), 4 (1) : 20-25, ISSN 2319-2372 www.isorjournals.org
- Shahida, A. A., Tanveer,A., Wajid, S. A., 2013. Spatial Distribution of Toxocariasis in Dogs. Journal of Agriculture and Veterinary Science (IOSR-JAVS), 4 (1) : 26-32, ISSN 2319-2372 www.isorjournals.org
- Niaz, S., Tanveer, A., Hasanat, A., and Qurashi, A.W., 2013. Prevalence of snails and Schistosoma cercariae and correlation with meteorological factors in Punjab, Pakistan. Iranian Journal of Veterinary Research, Shiraz University, Vol. 14 (2) 161-164. <http://ijvr.shirazu.ac.ir> (Impact Factor = 0.28)

Prof. Dr. Javed Iqbal Qazi

- Shakir, H.A., Qazi, J.I. and Chaudhry, A.S. 2012. Effects of anthropogenic activities on some biochemical parameters of Catla catla, from the river Ravi, Pakistan. Proceeding of Advances in Animal Biosciences. 120: 99 [U.K]
- Khan M., Zheng, B., Yi, F., Rasul, A., Gu, Z., Li, T., Gao, H., Qazi, J.I., Yang, H. and Ma, T. 2012. Pseudolaric Acid B induces caspase-dependent and caspase-independent apoptosis in U87



- Glioblastoma cells. Evidence-Based Complementary and Alternative Medicine. Volume 2012, Article ID 957568, 1-11. Doi: 10.1155/2012/957568. (I.F. 4.774)
- Bano , A. S. and Qazi, J. I. 2012. Corrosion and its control of soil buried mild steel coupons by *Paenibacillus dendritiformis*-MB14 and its antagonistic *Bacillus licheniformis* -MB6. *New Horizons in Science & Technology (NHS&T)*, 2012 Volume 1(4):100-105
 - Bukhari, S.Z., Qazi, J.I., Ashshi, A.M. and Zia, Naheed. 2012. Human immunodeficiency virus type-1 (HIV-1) disease progression and viral activity: A seroepidemiological and molecular study. *Journal of the College of Physicians and Surgeons Pakistan*. 22 (9): 565-569. (I.F. 0.34)
 - Nasreen, Z. and Qazi, J.I. 2012. Lab scale composting of fruits and vegetables wastes employing forced aeration. *Pakistan Journal of Zoology*, 44(5): 1285-1290. (I.F. 0.338) [Pakistan]
 - Hussain, A. and Qazi, J.I. 2012. Biological sulphate reduction using watermelon rind as a carbon source. *Biologia (Pakistan)*. 58:(1&2). 85-92.
 - Shakir, A., Chaudhry, A.S. and Qazi, J.I. 2013. Impact of anthropogenic activities on physico-chemical parameters of water and mineral uptake in *Catla catla* from river Ravi, Pakistan. *Environ. Monit. Assess.* 185:2833-2842 DOI 10.1007/s10661-012-2753-3. (I.F. 1.400)
 - Khan, M., Qazi J.I., Rasul, A., Zheng, Y. and Ma, T. 2013. Evodiamine induces apoptosis in pancreatic carcinoma PANC-1 cells via NF κ B inhibition. *Bangladesh J Pharmacol.* 8: 8-14. (I.F. 0.627).
 - Shakir, H.A. and Qazi J.I. 2013. Impact of industrial and municipal discharges on growth coefficient and condition factor of major carps from Lahore stretch of Ravi. *J. Animal and Plant Sciences*. 23 (1) : 167-173 (I.F.0.585)
 - Hussain A., Bano, A.S. and Qazi, J.I. 2013. Corrosion of Mild Steel Simulating Long Term Soil Burial Field Conditions Differing in Nutritional and Biotic Components. *World Applied Sciences Journal* 22 (7): 985-990.
 - Qazi, J.I. 2013. Biotechnological potential and conservatory of extremophiles from climatically wide ranged developing countries: Lesson from Pakistan. *Critical Reviews in Microbiology*. Informa Healthcare USA, 39(1): 1-8. (IF 6.270)
 - Hussain, A., Qazi, J.I., Ali, S., Shakir, H.A. and Ullah, N. 2013. Health imperilments in workers of a cutlery industrial complex from Pakistan: A preliminary survey. *Biologia. (Pakistan)*. 59(1): 43-50.
 - Nadeem, M., Qazi, J.I., Syed, Q. and Gulsher, M. 2013. Purification and characterization of an alkaline protease from *Bacillus licheniformis* UV-9 for detergent formulations. *Songklanakarin J. Sci. Technol.* 35(2): 187-195.
 - Hussain, A., Ali, S.S., Shakir, H.A., Qazi, J.I., Ali, Kh. and Nadeemullah. 2013. Prevalence of *Escherichia coli* in milk and different milk products sold under market conditions at Lahore. *Journal of Livestock Production*. 1(1) 11-15. doi: 10.14196/jlp.v1i1.67.



- Shakir, H.A., Qazi, J.I. and Chaudhry A.S. 2013. Monitoring the impact of urban effluents on mineral contents of water and sediments of four sites of the river Ravi, Lahore. Environ Monit Assess. DOI 10.1007/s10661-013-3284-2.
- Jabeen, F. and Qazi, J.I. 2010. Isolation and screening of chitinolytic bacteria from soil samples. 30th Proc. Pak. Congr. Zool. 31. (in press).
- Qazi, J.I. and Feroz, B. 2010. Nutritional Improvement in bacterially solid state fermented formulated fish feed. 30th Proc. Pak. Congr. Zool. 31. (in press).
- Qazi, J.I. and Rasool, S. 2010. Antimicrobial activity of pure heat exposed and herbal extracts blended honey. 30th Proc. Pak. Congr. Zool. 31. (in press).
- Chaudhry, A and Qazi, J.I. 2011. Prevalence of Pseudomonas and Lactic Acid Bacteria in raw milk and Yogurt sampled from Lahore. 31st Proc. Pak. Congr. Zool. 32. (in press).
- Qazi, J.I., Mumtaz, T. and Bano, A.S. 2011. Three years' term soil-buried exposure of mild steel to corrosion influencing bacteria. 31st Proc. Pak. Congr. Zool. 32. (in press).
- Mirza, S.S. and Qazi, J.I. 2011. Distribution of purple non sulfur bacteria in soil and water sampled from Lahore. 31st Proc. Pak. Congr. Zool. 32. (in press).
- Abbasi, M.H. and Qazi, J.I. 2011. Isolation and characterization of coal desulfurizing bacteria. 31st Proc. Pak. Congr. Zool. 32. (in press).
- "Jaraseem Haqiqat or Islami Taleemat ki roshni main Jaiza" Daira Muaraf Islamia University of the Punjab, Lahore. (In press)

Dr. Zafar Iqbal

- Iqbal, Z., Shafaqat, A and Haroon. F. 2012 Lernaean diversity and infection in Indian and Chinese carps under semi intensive culture conditions in Lahore, Punjab. Journal of Animals and Plant Sciences,
- Pervaiz, K., Iqbal, Z., Mirza, M.R, Javed, M. N and Naeem M. 2012. Meristic and Morphometric studies on Indus Mahseer *Tor macrolepis* (Teleostei: Cyprinidae) from District Attock. Pakistan. Int . J. Agr. Biol., 14; 169-175.
- Pervaiz, K., Iqbal, Z., Mirza, M.R, Javed, M. N and Naeem M. 2012. Length-weight, length-length relationships and feeding habits of wild Indus Mahseer, *Tor macrolepis*, from Attock, Pakistan. J. Applied. Icht. Doi;10.1111/j.1439-0426.2012.01953.x .
- Iqbal, Z and Rabia, M. 2013. Some Fungal Pathogens of an Ornamental fish, black moor (*Carassius auratus* L.). European J. Vet. Medicine, 2(1): 1-10
- Iqbal, Z., Pervaiz , K and Javed , M.N. 2013. Population dynamics of *Tor macrolepis* (teleostei: cyprinidae) and other fishes of Attock Region, Pakistan. Canadian J. Pure and Applied Sciences Vol. 7(1) 2195-2201, Feb 2013



- Iqbal, Z, Mahmood, T., Pervaiz, K, and Muhammad, H. 2013. Skin and fin infections in some fishes of Trimmu area district Jhang, Pakistan. *European J. Vet. Medicine*, 2(2): 98-108
- Iqbal, Z and Sajjad, R. 2013. Some Pathogenic Fungi Parasitising Two Exotic Tropical Ornamental Fishes. *Int. J. Agri. Biol.* 15(30):595-598
- Iqbal, Z., Ijaz, N and Chaudhry, J. A. 2013. Ammonia toxicity in *Cirrhinus mrigala* (hamilton) (cypriniformes, cyprinidae) fingerlings from fish hatchery Lahore, Pakistan. *European J. Vet. Medicine*, 2(3): 143-153
- Iqbal, Z and Batool, A. 2013. Fecundity of *Labeo rohita* (teleostei: cyprinidae) reared in earthen pond in Lahore. *Canadian J. Pure and Applied Sciences* Vol. 7(2):2391-95
- Iqbal, Z., Mumtaz, R and Ramsha S. 2013. Argulosis, in some Ornamental Fishes Imported to Lahore, Pakistan. *European J. Vet. Medicine*, 2(3):171-178
- Iqbal, Z, Ijaz, N. and Chaudhry, J. A. 2013. Effect of Ammonia on growth of *Cirrhinus mrigala* (Hamilton) fingerlings. *European Journal of Veterinary Medicine*, 2(3): 163-170.
- Dr. Abida Butt
- Khan, S.Y., A. But. H. M. Tahir, and S. Shafaat 2013, Response of *Anopheles Stephenzi* in Lahore district, Pakistan *Asian Journal of Chemistry*. 25(1): 165-169

Dr. Nabila Roohi

- MUMTAZ, T., ROOHI, N. AND AKHTAR, M. W., 2012. Incidence and clinical manifestation of lymphoma in central Punjab. *Pakistan Journal of Zoology*, 44 (5): 1367-1372.
- FATIMA, T., ROOHI, N. AND ABID, R., 2013. Circulatory Proteins in Women with Breast Cancer and their Chemotherapeutic Responses *Pakistan Journal of Zoology*, 45: (5): Accepted for publication.
- ROOHI, N., ABID, R. AND FATIMA, T., 2013. Cardiovascular manifestations in pre- and post-menopausal breast cancer patients. *HealthMed J.* Accepted for publication.

Dr. Farah Shakoori

- Shakoori, F.R, Butt, A.M, Ali, M.N., Zahid, M.T., Rehman, A and Shakoori, A.R., 2012. Optimization of Fermentation Media for the Enhanced Amino Acids Production by Bacteria Isolated from Natural Sources. *Pakistan J.Zoo.*, 44(4): 1145-57.
- Shehzadi, A., Shakoori, F.R., and Shakoori, A.R., 2013 Immunoinformatics Study of Promiscuous HLA Binding Antigenic Nanomers of Surface Glycoprotein of Influenza A (HINI) Pdm90 of Asian Origin. *Pakistan J.Zool.*, 45(4): 733-740

Dr. Najma Shaheen

- Khan S. Y., Khan A., Arshad M., Tahir H. M., Mukhtar M.K., Ahmad K. R and Arshad N. (2012). Irrational use of antimalarial drugs in rural areas of eastern Pakistan: a random field study. *BMC Public Health*. (IF = 1.997). 12: 941-952



- Khan S. Y., Arshad M., Tahir H. M and Arshad N. (2013). A probable role of blood lead on some haematological parameters in traffic police, Lahore, Pakistan. Article accepted in Toxicology and Industrial Health (IF = 1.555). - Manuscript ID TIH-13-0111

Dr. Nadeem Sheikh

- SHEIKH N., Shehzadi, S and Batool A.(2012). Breast Cancer Therapy: New approaches in Cancer Detection. ISBN 979-953-307-564-7, InTech, Croatia.
- SHEIKH N., Akhtar T and Riaz N. (2012). Chemokines & Their Receptors in Non-Small Cell Lung Cancer Detection. ISBN 979-953-307-564-7, InTech, Croatia.

Full Length Papers 2013

- Abbasi M.H., Fatima S., Naz N., Malik I. A., and SHEIKH N. Effect of Nerium oleander (N.O.) leaves extract on serum hepcidin, total iron, and infiltration of ed1 positive cells in albino rat. BioMed Research International Volume 2013, Article ID 125671, <http://dx.doi.org/10.1155/2013/125671>
- SHEIKH N., Fayyaz Z., Anjum H, Qureshi A.W. and Iqbal J. 2013. Expression of low molecular weight proteins in different age groups of the renal failure patients. Balkan J health sciences 1(2), 57-62
- SHEIKH N. and Javed S. Histological studies of the lung and liver tissues of pyrethroid exposed mice accepted in WJST Thailand
- AKHTAR T. and SHEIKH N. 2013 An overview of thioacetamide induced hepatotoxicity. Toxin Reviews, 32, Accepted for publication. [Impact factor 1.171].
- Ahmad S., Moriconi F., Naz N., Sultan S., SHEIKH N., Ramadori G., Malik I.A. 2013. Ferritin L and ferritin H are differentially located within hepatic and extra hepatic organs under physiological and acute phase conditions. Int J Clin Exp Pathol, 6(4):622-629 [Impact factor 1.893].
- Qureshi, A.W., Akhtar T, and SHEIKH, N,. Effect of Nigella sativa and Fumaria parviflora on Serum protein profiles of naturally infected Buffaloes (Bubalus bubalis) with Fasciola Sp. Accepted in HealthMed Journal., 7(1); 333-337 [Impact factor 0.435].
- Abbasi M.H. Akhtar T., Malik I.A., FatimA S., Khawar B., Mujeeb K.A., Mustafa G., Hussain S., Iqbal J., and SHEIKH N. 2013 Acute and chronic toxicity of thioacteamide and Alterations in Blood cell indices in rats. Journal of Cancer Therapy, 4, 251-259.
- SHEIKH N., Abid R., Qureshi A. W. and Basher T. Study of expression of low molecular weight proteins in different age groups of leukemia patients. WIMJ. 61(3): 235-9 [Impact factor 0.34].
- Naz N., Mallik IA, SHEIKH N., Ahmad S., Khan S., Blaschke M., and Ramadori G. Ferroportin-1 is a nuclear negative acute-phase protein in rat liver: A comparison with other iron-transport proteins. Lab invest 92(6):842-56. [Impact factor 4.405]



- Abbasi M. H., Fatima s., Naz N., Shahid M. A., Iqbal A., Abbas A. S. and SHEIKH N. .Hepatic injury with Nerium oleander (N.O.) leaves extract: Associated changes in serum hepcidin and Total Iron in albino rat. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- SHEIKH N., Shafiq M. Peppermint oil induced hepatic acute phase response and hemotoxicity. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- Abbas A. S., SHEIKH N. Serological changes and counter effect of medicinal plant in experimental NAFLD in rats. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- SHEIKH N., Shaheen H., Akhtar T., Muddasir H. Abbasi, Shafiq M. and Iqbal J. Thioacetamide tempted histological variations in the kidney of wistar rats. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- SHEIKH N., Younas N., Akhtar T., Muddasir H. Abbasi, Shafiq M. and Iqbal J. Effect of oral administration of TAA on the Histology of small intestine of Wistar rats. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- SHEIKH N. Shafiq M. and Younas N. Oral administration of Papaya leaf extract leads to increase in PLT count. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- Abbasi M. H., Fatima S., Mujeeb K. A., Khawar B. , SHEIKH N. Dose screening of Nerium oleander (N.O.) and acute-phase response in rats: A Hematological and Histological reflection. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- Akhtar T., Muddasir H. Abbasi, Iqbal J., Shafiq M. and SHEIKH N. Histological changes in the rat liver administered with the Nerium oleander leaves extract. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- Akhtar T., Muddasir H. Abbasi, Shafiq M., Afshan S. Abbass, Iqbal J. and SHEIKH N. Serum protein profile in TAA induced chronic liver inflammation in rats. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- Akhtar T., Muddasir H. Abbasi, and SHEIKH N. Hematological and serological changes in rat under the influence of Nerium oleander leaves extract. (APASL 2013, Singapore 06-10 June 2013.) [Impact factor 2.963]
- Shafiq M., Zafar S., Schmitz M., Sheikh N., Zerr I. Temporal degradation of prion biomarkers and relative efficacy of different storage tubes. Presented at Prion Conference 2013 in Banff Canada from May 26-20 2013.
- Naz N., Malik I. A., Sheikh N., Ahmad S. and Ramadori G. Differential localization of iron transport proteins in rat liver and spleen during acute phase response. GASL 2013 [Impact factor 1.026]



- Naz N., Ahmad S., SHEIKH N., Mihm S., Ramadori G. and Malik I.A. Ferritin L is the sole serum ferritin constituent and a positive hepatic acute phase protein J Cell Sci Ther 3(8);99. [Impact factor 3.27]

Dr. Muhammad Akbar Khan

- Akbar Khan, M., Akhtar, M. & Ikram, T., 2012. True ungulates from the Nagri type locality (late Miocene), northern Pakistan. The Journal of Animal and Plant Sciences, Supplementary Series, 1: 1-59 (Impact factor: 0.585).
- Bhatti, Z. H., Akbar Khan, M., Akhtar, M., Khan, A. M., Ghaffar, A., Iqbal, M. & Ikram, T., 2012. Giraffokeryx (Artiodactyla-Mammalia) remains from the Lower Siwaliks of Pakistan. Pakistan Journal of Zoology, 44(6): 1623-1631.
- Bhatti, Z. H., Akbar Khan, M., Akhtar, M., Khan, A. M., Ghaffar, A., Iqbal, M., Siddiq, M. K. 2012. Giraffa punjabiensis (Giraffidae: Mammalia) from Middle Siwaliks of Pakistan. Pakistan Journal of Zoology, 44(6): 1689-1695.
- Ali, M., Akbar Khan, M. & Akhtar, M., 2012. New fossils of Elachistoceras (Bovidae, Mammalia) from the Chinji Formation (Middle Miocene) of Pakistan. Pakistan Journal of Zoology, 44(4): 909-913.
- Akbar Khan, M., Akhtar, M., Iliopoulos, G. & Hina, 2012. Tragulids (Artiodactyla, Ruminantia, Tragulidae) from the Middle Siwaliks of Hasnot (late Miocene), Pakistan. Rivista Italiana di Paleontologia e Stratigrafia, 118(2): 325-341.
- Bhatti, Z. H., Akbar Khan, M. & Akhtar, M., 2012. Hydaspitherium (Artiodactyla, Giraffidae) from the Dhok Pathan Formation of the Middle Siwaliks, Pakistan: New Collection. Pakistan Journal of Zoology, 44(3): 799-808.
- Ghaffar, A., Akhtar, M., Akbar Khan, M., Khan, A. M., Samiullah K. & Iqbal, M. 2012. Discovery of antler from a new site in the Pinjor Formation (Pleistocene) of Pakistan. Journal of the Geological Society of India, 80: 119-122.
- Khan, A. M., Akhtar, M., Akbar Khan, M. & Shaheen, A., 2012. New fossil remains of Brachypotherium perimense from the Chinji and Nagri formations of Pakistan. The Journal of Animal and Plant Sciences, 22(2): 347-352.
- Samiullah, K., Akhtar, M., Ghaffar, A. & Akbar Khan, M., 2012. Giraffokeryx punjabiensis (Artiodactyla, Ruminantia, Giraffidae) from Lower Siwaliks (Chinji Formation) of Dhok Bun Ameer Khatoon, Pakistan. J. Sci. Technol. MSU, 31(1): 9-24.
- Samiullah, K., Akhtar, M., Akbar Khan, M. & Ghaffar, A. 2012. Fossil mammals (Rhinocerotids, Giraffids, Bovids) from the Miocene rocks of Dhok Bun Ameer Khatoon, district Chakwal, Punjab, Pakistan. ARPN Journal of Science and Technology, 2, special issue: 69-108.



- **Conferences, Seminars & Workshops etc.**

- Prof. Dr. Tanveer Akhtar (International Level)

- Joint Conference on emerging and re-emerging epidemics affecting GLOBAL HEALTH Antimalarial Drug Resistance in vitro Studies against Plasmodium falciparum in Punjab, Pakistan Venice, Italy October 21 - 26, 2012
 - Joint Conference on emerging and re-emerging epidemics affecting GLOBAL HEALTH Investigation of biochemical composition of hydatid cyst fluid from ruminants and humans in Pakistan. Venice, Italy October 21 - 26, 2012
 - Blood (ASH Annual Meeting Abstracts) 2012 Detection of five common fusion oncogenes in Pakistani children with acute lymphoblastic leukemia and their association with clinical pattern and treatment outcome USA 2012
 - Blood (ASH Annual Meeting Abstracts) 2012 Characterization of common fusion oncogenes as prognostic molecular identities in adult acute lymphoblastic leukemia identifies the need for genetic testing at presentation, molecular prognostication and differential treatment USA 2012
 - 18th Congress of the European Hematology Association High frequency of bcr-abl in pediatric acute lymphoid leukemia with poor outcome Identifies the immediate need for incorporation of imatinib and other tyrosine kinase inhibitors in treatment protocols Amsterdam Netherlands 2013

- Prof. Dr. Javed Iqbal Qazi

- Participated in one day symposium on "DNA barcoding: a promising tool for species identification and biodiversity digitization" January 20, 2012. National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.
 - Attended seminar on "Molecular Signaling for Fat and Bone Synthesis" by Prof. Dr. Amjad Javed, Institute of Oral Health Research School of Dentistry, University of Alabama at Birmingham USA on Thursday, March 29, 2012 at 11:30 AM in School of Biological Sciences University of the Punjab, Lahore.
 - Participated in two days workshop on "Potential biotech industry for entrepreneurs in Pakistan" at NIBGE, Faisalabad on 18-19 April, 2012.
 - Participated by presenting posters on bioenergy research in Invention to innovation Summit June 18, 2012 win "Innovation award" Conducted at Al-Razzi Hall, Centre for Undergraduate Studies, University of the Punjab, Lahore.
 - Participated National Seminar on Current Status of Food Industry in Pakistan: Threats and Challenges. September 06, 2012. Organized by PCSIR Laboratories Complex, Lahore.
 - Was invited and acted as Guest Judge in Biotech Exhibition 2013 1st Women Inter Collegiate and University Science Model and Poster Competition on "Impact of Biotechnology in today's world"



held on March, 12th 2013, at Department of Biotechnology, Bushra Mateen Building. Lahore College for Women University, Lahore.

- Acted as Chairman during Academic Session of 33rd Pakistan Congress of Zoology (International) Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi held on April 2-4, 2013.
- Participated as member in National curriculum revision committee final meeting in zoology, held on April 8-10, 2013 at HEC regional center, Peshawar.
- Organized seminar on Dange: virology and pathogenesis for which Dr. Abdul Haque, Deputy Chief Scientist NIBGE was invited as guest speaker on 27.03.2013.
- Acted as Chair of session: Bioremediation & Risk Assessment on 24.04.2013 in International Conference on "Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment" from April 22-26, 2013, NIBGE, Faisalabad, Pakistan.
- Was invited and Addressed to launching ceremony of the book "Ecosystem of Pakistan volume 2" by Z.B. Mirza by Government of Pakistan, Ministry of National Heritage and Integration, Urdu Science Board 299- Upper Mall, Lahore on 28.08.2013 at F.C. College Gulburg, Lahore.
- Acted as Chairman during Academic Session 32nd Pakistan Congress of Zoology (International). Government College University, Lahore. March 6-8, 2012.
- Evaluation of candidates for the post of associate professor (BPS-20) Zoology, Lahore College for Women University, Jail road Lahore, vide office order No. Reg./LCWU/538, dated 20.03.2013.
- Evaluated candidature of Associate Professor for Department of Meteorology COMSAT Institute of Information Technology Islamabad. Dated 03.21.2013.
- Acted as Judge for 1st Women Inter Collegiate and University Science Model and Poster competition On "Impact of Biotechnology in today's world" March, 12th 2013.
- Acted as subject expert of biological sciences for the appointment of Assistant Professor (Tenure Track System) in 11th Meeting of the university selection board at Karakoram International University Islamabad on April 27, 2013.
- Acted as Subject Specialist to conduct interviews of posts of assistant professor (female) (BS-18) at F.G. college for women, federal directorate of education, devolved, ministry of education. June 04, 2012.
- Acted as Subject Specialist to conduct interviews of posts of one hundred and one lecturers (female) (BS-17) directorate of federal government educational institutions (cantt/garrison) ministry of defence. June 08, 2012.
- Reviewed the manuscript "impacts of pesticides on respiration rate of soil microbial community" - PJZ-1043-112 for Pakistan Journal of Zoology in 2013.



- Reviewed the manuscript "Farinographic studies of mozzarella cheese at optimized conditions" PJZ-NIL-2013 for Pakistan Journal of Zoology on 02.05.2013.
- Reviewed the manuscript "Use of Farinograph-e- for rheological study of quality cheese" PJZ-NIL-2013 for Pakistan Journal of Zoology on 29.05.2013.

Dr. Zafar Iqbal

- Organized and attended 9th National Honey Bee keeping workshop at Zoology Department, University of the Punjab Lahore, 11-15 March 2013.
- Attended 33rd Pakistan Congress of Zoology held at Pakistan Natural History Museum Islamabad 2-4 April 2013
- Attended one day seminar on "Emerging Trends & Prospects in Fisheries Management" held at Fish Diversity Hatchery Chashma Mianwali 12-06-2013

Dr. Nabila Roohi

- Participated in 33rd Pakistan Congress of Zoology (International) jointly organized by Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi April 2-4, 2013. Two oral and three poster presentations were made by research group in Physiology/Endocrinology.

Dr. Farah Rauf Shakoori

- 33rd Pakistan Congress of Zoology (International) held under the auspices of the Zoological Society of Pakistan at, Convention, Center Islamabad, April, 2-4 (2013) and Chaired Cell Biology, Molecular Biology, Genetic, Physiology Session.
- First Workshop on Biosafety and Risk Management held in Karakoram International University Gilgit-Baltistan June 11-16,2013. Organized by Department of Biological Sciences KIU,GB Fogarty International Center USA and Pakistan Biological Safety Association.

Dr. Najma Shaheen

- Sadia Samreen and Najma Arshad. 2013. Identification of Antimicrobial Activity Exhibiting Bacteria from Fruits and Vegetables. In 33rd Pakistan Congress of Zoology (International) March, 2013.

Dr. Nadeem Sheikh

- "23rd Conference of the Asian Pacific Association for the Study of the Liver (APASL 2013)" held from June 6-10, 2013 in Singapore
- 33rd Pakistan Congress of Zoology International held under the auspices of the Zoological society of Pakistan at Convention center Islamabad April 2-4, 2013.

Dr. Muhammad Akbar Khan

- Short training course 'PC-1 Preparation' at Management and Professional Development Department, Government of the Punjab, Lahore from 16-07-12 to 20-07-12.



- March 12-16, 2012 - Member organizing committee for 8th National Beekeeping Training Workshop, Zoology Department, University of the Punjab, Lahore.
- Attended the three days Aquaponics Training Seminar at Zoology Department, PU, Lahore, under the collaboration of Fishgruen (Switzerland).
- March 6-8, 2012. Actively participated (and organize the students participation) in the Pakistan Congress of Zoology (International), 32, GC University Lahore.
- **Research Journals**
 - Prof. Dr. Javed Iqbal Qazi
 - Associate Editor Punjab University Journal of zoology.
 - Dr. Farah Rauf Shakoori
 - Member, organization for Women in Science for the Developing World (OWSDW) since 2007-contnuing
 - Dr. Nadeem Sheikh
 - Member Editorial Board Journal of Animal Genetic Research Published by Sciknow, NY USA.
 - Member Editorial Board Philippine Journal of Veterinary and Animal Sciences.
 - Member Editorial Board Pakistan Journal of Science.
 - Member editorial board Punjab University Journal of Zoology.
 - Dr. Muhammad Akbar Khan
 - Member editorial board Punjab University Journal of Zoology. Short training course 'PC-1 Preparation' at Management and Professional Development Department, Government of the Punjab, Lahore from 16-07-12 to 20-07-12.
 - March 12-16, 2012 - Member organizing committee for 8th National Beekeeping Training Workshop, Zoology Department, University of the Punjab, Lahore.
 - Attended the three days Aquaponics Training Seminar at Zoology Department, PU, Lahore, under the collaboration of Fishgruen (Switzerland).
 - March 6-8, 2012. Actively participated (and organize the students participation) in the Pakistan Congress of Zoology (International), 32, GC University Lahore.

RESEARCH COLLABORATION

- **Indigenous**
 - Prof. Dr. Javed Iqbal Qazi
 - Food Biotechnology Lab. PCSIR
 - Evaluated M.Phil Thesis "Cypermethrin induced teratological Mice" of Ms. Amsa Younis, Department of Biological Sciences, University of Sargodha. Sargodha. January 14, 2012.
 - Evaluated M.Phil Thesis "Sodium Fluoride Exposure in Mice" of Ms. Shamsa Jabeen, Department of Biological Sciences, University of Sargodha. Sargodha. January 14, 2012.



- Acted as examiner and conducted oral examination / viva voce of Ph.D. scholar Ms. Noreen Azhar for her thesis entitled "Molecular studies and bioinformatic analysis of industrially important protease coding genes in metagenomic extracts and pure isolates from extremophilic environment" of Center of Biotechnology and Microbiology, University of Peshawar,(10.09.2012).
- Acted as examiner and conducted oral examination / viva voce of Ph.D. scholar Mr. Usman Waheed for his thesis entitled "Detection and molecular characterization of foot-and-mouth disease virus" of National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad/ Quaid-i-Azam University, Islamabad (Pakistan) May, 2012.
- Acted as external examiner for conduction of the defence/viva voce examination of Ph.D. thesis entitled "Risk assessment of pesticides exposure in female agriculture workers using biochemical and genotoxic biomarkers" submitted by Ms. Tayyaba Ali, scholar of National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad (an affiliated institute of Quaid-i-Azam University, Islamabad). October 13, 2012.
- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis of Mr. Soban Tufail student of National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. October 13, 2012.
- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis of Mr. Shahbaz Ali student of National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. October 13, 2012.
- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis entitled of Ms. Samina Shaheen student of National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. October 13, 2012.
- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis entitled " Molecular Genetics of Hypotrichosis in Pakistan Population" of Mr. Abubakar Moawia student of Bioinformatics and Biotechnology GC University, Faisalabad. October 13, 2012.
- Evaluated and conducted viva voce examination of M.Phil Thesis "Teratological effects of cypermethrin with co-treatment of vitamin E enriched with olive oil in chick" of Mr. Kamran Shehry, Department of Biological Sciences, University of Sargodha. Sargodha. Pakistan, March 08. 2013.
- Evaluated and conducted viva voce examination of M.S. Thesis "Cloning and expression of C-terminally truncated Cry1Ac gene of Bacillus thuringiensis" of Ms. Rubina Mushtaq, School of Biological Sciences, University of the Punjab, Lahore. Pakistan, May 28. 2013.



- Evaluated and conducted viva voce examination of M.Phil Thesis "Assessment of Parathyroid and Adrenal Functions following treatment with selenium and ascorbic acid in Hexavalent chromium treated Laboratory Rats" of Ms. Kanwal Fatima, Department of Animal Sciences, Faculty of Biological Sciences, Quaid-e-Azam University, Islamabad, on 16-08-2013.
- Evaluated and conducted viva voce examination of M.Phil Thesis "Cell Culture Contaminant, Member of Alpha Proteobacteria" of Mr. Muhammad Tahir Asghar, School of Biological Sciences, University of the Punjab, Lahore, Pakistan, on 27.08.2013.
- Evaluated and conducted viva voce examination of Ph.D. Thesis "Biochemical And Molecular Characterization of Extended Spectrum Beta-lactamases (ESBL) Producing Enterobacteria Isolated From Clinical Samples" of Mr. Muhammad Asif Habeeb, Department of Biotechnology (NIBGE) Pakistan Institute of engineering and Applied Sciences, Nilore-45650 Islamabad, Pakistan on 11-09-2013.
- Dr. Nabila Roohi
 - Three Indigenous Ph.D. scholarships are awarded by HEC to Ph.D. students
- Dr. Farah Rauf Shakoori
 - Collaboration with School of Biological Sciences University of the Punjab Lahore.
 - Collaboration with Government College University Lahore.
- Dr. Najma Shaheen
 - Dr Muhammad Iqbal, Director Foot and Mouth Research Centre, Ghazi Road, Lahore
- Dr. Nadeem Sheikh
 - Collaboration with the University of Lahore for research project.
 - Collaboration with Institute of Nuclear Medicine and Oncology Lahore.
 - Collaboration with LCWU, Lahore
 - Collaboration with PCSIR laboratories Lahore.
- **Foreign Linkages**
 - Prof. Dr. Tanveer Akhtar
 - Member American Association for Cancer Research (AACR) 2010 to onward
 - Member Society for Conversation Biology(SCB)
 - Member, World Pheasant Association
 - Member, World Wildlife Fund (W.W.F.) Pakistan
 - Senior Scientist of the board of Bio-resource Research Center (BRC)
 - Member International Society for animal and clinical biochemistry (ISACB) USA
 - Member, A Network of Veterinary Public Health and Zoonotic Diseases in Asia



- Dr. Farah Rauf Shakoori
 - Prof. Dr. Janet L. Stein, Department of Biochemistry, University of Vermont, USA.
- Dr. Najma Shaheen
 - Dr Muhammad Iqbal, Director Foot and Mouth Research Centre, Ghazi Road, Lahore
- Dr. Nadeem Sheikh
 - Memorandum of understanding with Department of Internal Medicine, Division of Gastroenterology, Georg August University Goettingen Germany.
- **Funding Grants for R&D**
 - Dr. Nadeem Sheikh
 - Local Coordinator in Pakistan for EXPERTS II, Exchange academic visitors fellowship by Exchange by Promoting Quality Education, Research and Training in South and South-East Asia) the Georg-August University, Goettingen, Germany
 - Local Coordinator in Pakistan for EXPERTS III, Exchange academic visitors fellowship by Exchange by Promoting Quality Education, Research and Training in South and South-East Asia) the Georg-August University, Goettingen, Germany.

INSTITUTE OF AGRICULTURAL SCIENCES

- **Research & Development – An Overview**
 - Institute of Agricultural Sciences has made tremendous achievements in the field of Research and Development, while producing virus resistant cotton plants. At present plants are under field trials, sample analyses of transgenics confirmed the presence of desired construct in the transformants. Agrobacterium inoculation of two heterologous viruses showed resistance from the transgenics. Resistant cotton germplasm against CLCV has been developed and passed to strict standards and Lab scale mass production is successively in progress. The technique of mass production is under discussions with private sector for commercialization.
 - Identification of new whitefly biotypes through molecular analyses. Production of genetically recombinant rabies virus vaccine by using local virus isolates and development of quick protocols for the detection and screening of rabies virus. Skilled manpower has also been produced. To meet the global standards of R&D 05 MSc (Hons) and 2 PhD are engaged on academic and applied aspects
- **Projects (i) Completed**
 - Dr. M. Saleem Haider, Professor & Director
 - 2012-13, entitled "Diversity of endosymbiotic bacteria associated with Bemisia tabaci from Pakistan" awarded by the University of the Punjab Lahore.
 - Dr. Ghazala Nasim, Professor
 - 2012-13, entitled "Management of an economically important weed of wheat, Euphorbia helioscopia using biological approach" awarded by the University of the Punjab Lahore.



- Dr. Salik Nawaz Khan, Assistant Professor
 - 2012-13, entitled "Morphological and ecological characterization of entomopathogenic fungi associated with field crops insects in central and southern Punjab" awarded by the University of the Punjab Lahore.
- Dr. Ahmad Ali Shahid, Assistant Professor
 - 2012-13, entitled "Isolation, purification and maintenance of Phythium & Phytophthora spp. From infected chilli field of Lahore District" awarded by the University of the Punjab Lahore.
- Dr. Arshad Javaid, Assistant Professor
 - 2012-13, entitled "Management of Fusarium Wilt of Tomato by Trichoderma and Raphanus sativus" awarded by the University of the Punjab Lahore.
- Dr. Shakil Ahmad, Assistant Professor
 - 2012-13, entitled "Production of Lettuce by Hydroponic Technology" awarded by the University of the Punjab Lahore.
- Dr. Amna Shoaib, Assistant Professor
 - 2012-13, entitled "Impact of heavy metal on severity of chrocoal rot of mash bean" awarded by the University of the Punjab Lahore.
- Dr. Uzma Bashir, Assistant Professor
 - 2012-13, entitled "Antifungal activity of some tree plants against Fusarium solani and molecular characterization of pathogen" awarded by the University of the Punjab Lahore.
- Dr. Shazia Shafique, Assistant Professor
 - 2012-13, entitled "Defense response of selected Eucalyptus species against Fusarium oxysporum - cause of wilt in chili" awarded by the University of the Punjab Lahore.
- Dr. Sobiya Shafique, Assistant Professor
 - 2012-13, entitled "Screening of resistant and susceptible varieties of Chilies against Fusarium wilt on the basis of biochemical and molecular analysis" awarded by the University of the Punjab Lahore.
- Dr. Muhammad Ashfaq, Assistant Professor
 - 2012-13, entitled "Breeding for micronutrients improvement in rice (*Oryza sativa* L.) for better human health" awarded by the University of the Punjab Lahore.
- Dr. Rashid Mahmood, Assistant Professor
 - 2012-13, entitled "Influence of crude weed extracts on charcoal rot of sunflower and soil beneficial microflora" awarded by the University of the Punjab Lahore.
- Dr. Muhammad Bilal Chattha, Assistant Professor
 - 2012-13, entitled "Improving germinibility and vigor enhancement of maize (*Zea mays* L.) hybrid seed under varying temperatures through seed priming" awarded by the University of the Punjab Lahore.



- Dr. Shinawar Waseem Ali, Assistant Professor
 - 2012-13, entitled "Characterization of Fungal microbiota on Rice grains in Local Markets of Lahore" awarded by the University of the Punjab Lahore.
- Dr. Malik Fiaz Hussain Ferdosi, Assistant Professor
 - 2012-13, entitled "Impact of seed priming to enhance germination, seedling vigor and to exploit enzyme activity in *Salvia splendens*" awarded by the University of the Punjab Lahore.
- Dr. Asad Shabbir, Assistant Professor
 - 2012-13, entitled "Predictive modeling for future selection and spread of the biological control agents of parthenium weed in Pakistan" awarded by the University of the Punjab Lahore.
- Dr. Naureen Akhtar, Assistant Professor
 - 2012-13, entitled "Kinetic analysis of net nitrate transport in various isolates of *Aspervillus nidulans*" awarded by the University of the Punjab Lahore.
- Dr. Shahbaz Ahmad, Assistant Professor
 - 2012-13, entitled "Sustainable management of Dengue in District Lahore, Pakistan" awarded by the University of the Punjab Lahore.
- Dr. Nasir Ahmed, Assistant Professor
 - 2012-13, entitled "Effect of glucose syrup production by the action of locally produced thermostable amylase" awarded by the University of the Punjab Lahore.
- Dr. Zaheer Hussain, Assistant Professor
 - 2012-13, entitled "Molecular characterization of foot and mouth diseases virus in Pakistan" awarded by the University of the Punjab Lahore.
- Dr. Sajid Ali, Assistant Professor
 - 2012-13, entitled "Light interception affects the concentration of polyphenols in Fennel (*Foeniculum vulgare* L.)" awarded by the University of the Punjab Lahore.
- Dr. Muhammad Ali, Assistant Professor
 - 2012-13, entitled "The relationship of bio-chemical and phsiomorphological characters of brinjal (*Solanum melongena* L.) with its resistance against Jassid (*Amrasca biguttula biguttula* (Ishida) in Pakistan" awarded by the University of the Punjab Lahore.
- Dr. Muhammad Ali, Assistant Professor
 - 2012-13, entitled "The relationship of bio-chemical and phsiomorphological characters of brinjal (*Solanum melongena* L.) with its resistance against Jassid (*Amrasca biguttula biguttula* (Ishida) in Pakistan" awarded by the University of the Punjab Lahore.
- Ms. Zill-e-Huma Bilal, Lecturer
 - 2012-13, entitled "Investigation on antimicrobial potential of *Datura stramonium* L." awarded by the University of the Punjab Lahore.



- Ms. Sana Hanif, Lecturer
 - 2012-13, entitled "Screening of Bacterial Bioagents for their ability to induce cold stress tolerance in Tomato (*Lycopersicon esculentum* Mill)" awarded by the University of the Punjab Lahore.
- Ms. Shabnam Javed, Lecturer
 - 2012-13, entitled "Novel Larvicidal/Insecticidal agents discovery from Natural Source against Dengue Vector" awarded by the University of the Punjab Lahore.
- Mr. Muhammad Shafiq, Lecturer
 - 2012-13, entitled "Diversity and molecular characterization of psyllid insects and candidatus liberibacter causing citrus Huanglongbing in Pakistan" awarded by the University of the Punjab Lahore.
- Mr. Adnan Zahid, Lecturer
 - 2012-13, entitled "Adaptation of sustainable approaches to raise the productivity of the wheat (*Triticum aestivum* L.) at the small farmers field of irrigated areas" awarded by the University of the Punjab Lahore.
- Ms. Shabnam Javed, Lecturer
 - 2012-13, entitled "Novel Larvicidal/Insecticidal agents discovery from Natural Source against Dengue Vector" awarded by the University of the Punjab Lahore.
- Ms. Mehreen Hassan, Lecturer
 - 2012-13, entitled "Developoing software application for finding Tree Crop combination in Agroforestry" awarded by the University of the Punjab Lahore.
- Moazzam Anees, Lecturer
 - 2012-13, entitled "Comparison between the vertical and open field cultivation of vegetables under the agro-climatic conditions of Lahore" awarded by the University of the Punjab Lahore.
- **Projects (ii) Newly Launched**
 - Dr. M. Saleem Haider, Professor & Director
 - 2011-14, entitled "Pak-US Cotton Productivity Enhancement Project" awarded by United States Department of Agriculture (USDA) through International Centre for Agricultural Research in the Dry Areas (ICARDA).
 - 2009-13: Novel approach to generate wide spectrum virus resistance to all cotton infecting begomoviruses infecting cotton and other cultivated crops. Awarded by PARB.
 - Dr. Ahmad Ali Shahid, Assistant Professor
 - Effect of Genetically Modified crops on soil micro-organism and animals. Awarded by Higher Education Commission of Pakistan
 - Dr. Arshad Javaid, Assistant Professor



- Title: Biological Control of Charcoal Rot of Mungbean by *Trichoderma* and *Sisymbrium irio*. Awarded by Punjab University Lahore. Rs. 150000/-
- Title: Natural compounds from allelopathic trees as antifungal agents against *Ascochyta rabiei* (Pass.) Lab. Awarded by PSF. [Project No. PSF-NSLP-P-PU (53)]. Rs. 2012256/-.
- Dr. Tehmina Anjum, Assistant Professor
 - Strengthening of Fungal Biotechnology Lab in Institute of Agricultural Sciences, University of the Punjab. Awarded by University of the Punjab.
 - Use of extracts from local medicinal trees to control *Alternaria* leaf spot of tomato. Awarded by University of the Punjab.
- Dr. Shakil Ahmed, Assistant Professor
 - Prevalence, occurrence and distribution of chilli anthracnose disease in major chillies growing areas of Punjab. Awarded by University of the Punjab.
- Dr. Shazia Shafique, Assistant Professor
 - 2012-13. Defense response of selected *Eucalyptus* species against *Fusarium oxysporum* - cause of wilt in chili. Awarded by University of the Punjab, Lahore, Pakistan.
- Dr. Muhammad Ashfaq, Assistant Professor
 - Screening of diverse germplasm for drought tolerance in rice (*Oryza sativa* L.) through conventional and molecular breeding techniques (Rs: 500000) (Funding Source: Higher Education Commission (HEC) Islamabad No: PM-IPFP/HRD/HEC/2012/2783, Islamabad September 14th, 2012).
- Dr. Amna Shoaib, Assistant Professor
 - 2011-2012: Working as Principal investigator in the project entitled Characterization of metallothioneine (MTA) gene expression in *Pisum sativum* L simultaneously growing under wilt and Cu-stressed condition. Support of Academic Research, Punjab University, Pakistan.
- Dr. Uzma Bashir, Assistant Professor
 - Morphological and Molecular characterization of economically important fungal species. Funded by academic research, University of the Punjab, Lahore, Pakistan.
- Dr. Sobiya Shafique, Assistant Professor
 - 2012-13. Screening of resistant and susceptible varieties of Chilies against *Fusarium* wilt on the basis of biochemical and molecular analysis. Awarded by University of the Punjab, Lahore, Pakistan.
- Dr. Muhammad Bilal Chattha, Assistant Professor
 - 2012: Improving the Germinability and Vigor Enhancement of Sunflower (*Helianthus annuus* L.) Hybrid Seed under Varying Temperatures through Seed Priming. Awarded by (Higher Education Commission of Pakistan.)



- Dr. Rashid Mahmood, Assistant Professor
 - 2012-13: Evaluation of weeds extracts in nitrification inhibition and uptake of synthetic nitrogen for yield enhancement of maize) Awarded by HEC.
- Miss Shabnam Javed, Lecturer
 - 2008-ongoing "HERBAL HERITAGE GARDEN "Working as Incharge of mega project of Institute of Agricultural Sciences "Herbal Heritage Garden" since 2008 Awarded by University of the Punjab.
- Ms. Sana Hanif, Lecturer
 - Screening of Bacterial Bioagents for their Ability to Induce Cold Stress Tolerance in Tomato (*Lycopersicon esculentum* Mill. Awarded by (proposed to University of the Punjab).
- Mr. Muhammad Shafiq, Lecturer
 - Co-Principal Investigator of project entitled "Haunglongbing in Pakistan" funded by HEC
- Mr. Adnan Zahid, Lecturer
 - Co-Principal-Investigator, "Improving Germinibility and vigor enhancement of sun flower (*Helianthus annuus* L.) Hybrid seed under varying temperatures through seed priming" during 2012 funded by Higher education commission (0.5million).
- **Publications (Books/Edited)**
 - Dr. M. Saleem Haider, Professor & Director
 - Saeed F., Haider M. S. and Shafiq M. (2012) Biotypes of Whitefly (*Bemisia tabaci*) in Pakistan. LAP Lambert Academic Publishing
 - ISBN 978-3-8484-1231-0, paperback, 56 Pages
 - Qurashi F., Haider M. S. and Shafiq M. (2012) Molecular Characterization of Begomoviruses isolated from a Weed. LAP Lambert Academic Publishing ISBN 978-3-8484-9934-2, paperback, 68 Pages
 - Javed S, Ahmad R, and Haider MS (2012) Phytochemical Investigation of Citrus limetta Peel Oil. 978-3-8484-9789-8, 89 pages VMD Verlag Dr Muller and the German National Library and Online at www.amazon.com
 - Ashfaq, M., Khan A. S. and Haider M. S. (2012) Genetics of rice under normal and water stress conditions. LAP Lambert Academic Publishing
 - ISBN 978-3-8473-2955-8, paperback, 184 Pages
 - Dr. Ghazala Nasim, Professor
 - Ghazala Nasim (2012). Biological Control of Root Born Plant Pathogens. Lambert Academic Publishing (LAP), Germany. pp 160
 - Dr. Tehmina Anjum, Assistant Professor
 - Sabeen Fatima and Tehmina Anjum. 2012. Study of molecular polymorphism among different *Trichoderma* strains. VDM Publishing house Ltd. ISBN# 978-3-659-12556-0.



- Dr. Amna Shoaib, Assistant Professor
 - N. Aslam, Shoaib A. and Akhtar S. (2012). Solution to Cr(III & VI) pollution: Adsorption of Cr through environment friendly biosorbents. VDM, Verlag, Dr MÜller and the German National Library and Online at www.amazon.com.
- Dr. Uzma Bashir, Assistant Professor.
 - Management and characterization of Fusarium solani 2012. ISBN 978-3-8484-4464-9, LAP LAMBERT Academic Publisher, Germany.
- Miss Shabnam Javed, Lecturer
 - Phytochemical Investigation of Citrus limetta Peel Oil, Shabnam Javed, Dr. Rauf Ahmad, Dr. Saleem Haider, 2012. 978-3-8484-9789-8, 89 pages. www.amazon.com.
- **Conferences, Seminars & Workshops etc.**
 - Dr. M. Saleem Haider, Professor & Director
 - Shabnam Javed¹, Sobia mushtaq¹, Muhammad Saleem Haider, Rauf Ahmed & Shaista. 2012. Essential Oils Derived From Citrus Fruits in Food Protection and Medicine:GC-MS analysis of Citrus essential oils. In Abstracts book; International Conference on Safe Food and Human Health, January 10-11, GC University, Faisalabad, Pakistan:64.
 - Dr. Ahmad Ali Shahid, Assistant Professor
 - 6th Annual International Symposium on Agriculture, Athens, Greece (15-18 July, 2013).
 - 3 Days Workshop on Cotton Leaf Curl Disease (CLCuD) Diagnostics and Resistance, A Practical Approach. Institute of Agricultural Sciences, University of Punjab, Lahore. (August 26-28, 2013).
 - 3rd International Conference on Agriculture and Animal Sciences. Bangkok, Thailand (November, 24-25, 2012).
 - One day Symposium on Applications of Biotechnology in Health and Agriculture, GC University Faisalabad (March 28, 2012).
 - Dr. Shakil Ahmed, Assistant Professor
 - One day Training workshop on 17th March, 2012 entitled "Qualitative Research using NVivo 9 Software" held in the Committee Room, Centre for Undergraduate Studies, University of the Punjab, Lahore organized by ORIC University of the Punjab, Lahore.
 - Dr. Amna Shoaib, Assistant Professor
 - S. Akhtar and Shoaib A. (2012). Growing threat of Sinkhea on major cereal crops of Pakistan. International Conference on Water, Energy, Environment and Food Nexus: Solution and Adaptation Under Challenging Environment. April 4-5, 2012. Centre of Excellence in Water Resources Engineering. University of Engineering and Technology. Lahore. PAKISTAN



- Dr. Uzma Bashir, Assistant Professor
 - Uzma Bashir, Arshad Javaid and Rukhsana Bajwa 2013. Effect of sunflower residue incorporation on growth of pea and subsequent maize crop. 1st national conference on "Prospects and Opportunities for Agricultural Development in Pakistan" at Khans pur, Ayubia. June 19-21, 2013.
 - Uzma Bashir, Arshad Javaid and Rukhsana Bajwa 2013. Effect of sunflower residue on growth and yield of wheat and subsequent rice crop. 3rd International conference of PSA "sustainable crop productivity: threats and options" by Pakistan Society of Agronomy at Ayub Agricultural Research Institute, Faisalabad. April 11-12, 2013. (Poster got 3rd Prize)
 - Uzma Bashir, Amna Ali, and Muhammad Saleem Haider 2013. Bio-control Effect of *Eruca sativa* Mill. Oil against the Hazardous Food Borne Pathogen. Bio-physicochemical basis for Technopreneurship. A joint venture of MMG and IBA at University of the Punjab. Lahore. April 2-3, 2013.
 - Uzma Bashir, Arshad Javaid and Rukhsana Bajwa 2013. Growth response of maize and subsequent pea crop to residue incorporation of sunflower. International Conference on Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment at NIBGE, Faisalabad, Pakistan April 22-26, 2013.
 - Workshop on Quantitative Data Analysis using SPSS. Office of Research Innovation & Commercialization (ORIC), University of the Punjab, Lahore, Pakistan. February 9th 2013.
 - Workshop on Polymerase Chain Reaction (PCR) Technology. Office of Research Innovation & Commercialization (ORIC), School of Physical Sciences, University of the Punjab, Lahore, Pakistan. February 2nd 2013.
 - National UIP Seminar on Developing Local Food Additives/Preservatives, University of the Punjab. Lahore. November 22, 2012.
 - Uzma Bashir 2012. Evaluation of fungitoxic effects of *Ageratum conyzoides* Linn. International Conference on Advances in Plant Sciences (ICAPS 2012) Empress Hotel, Chiang Mai, Thailand. November 14-18, 2012.
- Dr. Shazia Shafique, Assistant Professor
 - Shazia Shafique, Zunera Zaheer, Sobiya Shafique and Tahir Mehmood, 2013. Biological control potential of *Parthenium hysterophorus* against *Fusarium solani* - a cause of Fusarium wilt in potato. In: 1st International Conference on Global Environmental Changes, January 15-16, 2013, Government College University, Faisalabad.
 - Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. *Penicillium oxalicum* directed systemic resistance in tomatoes against *Alternaria alternata*. In: International Conference on



- "Crop Management in Changing Climate". February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan. p 4.
- Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. Molecular evidences for resistance induction efficacy of *Penicillium oxalicum* against *Alternaria* leaf spot of tomato. In: International Conference on "Crop Management in Changing Climate". February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan. p 6.
 - Sobiya Shafique, Shazia Shafique and Aqeel Ahmad, 2013. Ecofriendly response of citrus peels to *Alternaria* leaf spot of tomatoes. In: "Biophysicochemical basis for Technopreneurship". April, 2-3, 2013. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan. p 68.
 - Muhammad Asif, Shazia Shafique and Sobiya Shafique, 2013. Screening of Resistant and Susceptible Varieties of *Capsicum annum* L. against *Fusarium oxysporum*. In: "1st National Conference on prospects and opportunities for Agricultural Development in Pakistan". 25th -27th June, 2013. Department of Agriculture, University of Huripur, at Khanspur, Ayubia.
 - One day seminar on World Forest Day. March, 21, 2013. Punjab Forest Department, Lahore, Pakistan.
- Dr. Muhammad Ashfaq, Assistant Professor
 - Attended International Symposium on "Modern Approaches and Techniques in Agriculture to Ensure Food Security in Pakistan,, held in University of Agriculture Faisalabad Pakistan and Sponsored by HEC 13-14 October, 2008.
 - Attended 48th Croatian and 8th International Symposium on Agriculture held in Dubrovnik, Croatia 17-22 of February 2013, funded by Higher Education Commission Islamabad.
 - Attended International conference on "Plant Genetics and Breeding Technologies" held in Vienna, Austria 18-20 February 2013 funded by University of the Punjab, Lahore.
 - Dr. Rashid Mahmood, Assistant Professor
 - One week training course on "Office Management" held at "Punjab Institute of Management and Professional Development, Lahore, Pakistan" from January 2-6, 2012.
 - Dr. Shinawar Waseem Ali, Assistant Professor
 - Attended a four days "Faculty Orientation Training Program 2012", (July 3-6, 2012) held at Institute of Administrative Sciences, University of the Punjab, Lahore, Pakistan
 - Dr. Muhammad Bilal Chattha, Assistant Professor
 - Attended 5-Days Training workshop on Planning and Management of Rural Development Projects at AHK National Center for Rural Development, Islamabad, during August, 2012.
 - Dr. Sobiya Shafique, Assistant Professor
 - Sobiya Shafique, Tahir Mehmood, Shazia Shafique and Zunera Zaheer, 2013. *Tagetes erectus* - a tool for the management of *Alternaria alternata* strains of tomato. In: 1st International



Conference on Global Environmental Changes, January 15-16, 2013, Government College University, Faisalabad.

- Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. *Penicillium oxalicum* directed systemic resistance in tomatoes against *Alternaria alternata*. In: International Conference on "Crop Management in Changing Climate". February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan. p 4.
- Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. Molecular evidences for resistance induction efficacy of *Penicillium oxalicum* against *Alternaria* leaf spot of tomato. In: International Conference on "Crop Management in Changing Climate". February, 11-13, 2013. University of Agriculture, Faisalabad, Pakistan. p 6.
- Sobiya Shafique, Shazia Shafique and Aqeel Ahmad, 2013. Ecofriendly response of citrus peels to *Alternaria* leaf spot of tomatoes. In: "Biophysicochemical basis for Technopreneurship". April, 2-3, 2013. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan. p 68.
- Muhammad Asif, Shazia Shafique and Sobiya Shafique, 2013. Screening of Resistant and Susceptible Varieties of *Capsicum annum* L. against *Fusarium oxysporum*. In: "1st National Conference on prospects and opportunities for Agricultural Development in Pakistan". 25th -27th June, 2013. Department of Agriculture, University of Huripur, at Khanspur, Ayubia.
- One day seminar on World Forest Day. March, 21, 2013. Punjab Forest Department, Lahore, Pakistan.
- Dr. Asad Shabbir, Assistant Professor
 - Won School of Agriculture and Food Sciences travel award to present and attend 2012 Adaptation Future conference on Climate Change held at University of Arizona, Tucson
- Dr. Naureen Akhtar, Assistant Professor
 - Nitrate transport inhibition studies using model fungus-*Aspergillus nidulans*". Conference on Sustainable crop productivity: threats and options, 11-12 April, 2013 Ayub Agricultural Research Institute, Faisalabad
 - In vivo pathogenicity testing of *Aspergillus* spp." at the conference held on 2-3 April 2013, Lahore Pakistan
 - Cysteine scanning mutagenesis and thiol cross-linking studies in *Aspergillus nidulans* NrtA International Conference on Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment April 22-26, 2013 at NIBGE, Faisalabad, Pakistan (won 3rd prize)
- Dr. Shahbaz Ahmad, Assistant Professor
 - Cairo International Conference for Clean Pest Management by Agriculture Research Center, Cairo, Egypt by held 12-13 November, 2012



- National Seminar on "Developing Local Food Additives/Preservatives" held on 22 November, 2012 at Institute Of Agricultural Sciences, University Of The Punjab.
- Mr. Hameed Ullah Malik, Assistant Professor
 - Workshop on "National Climate Change Policy
 - Workshop on Payments for Progress: Financial inclusion and literacy outcomes for technology-based payments on 19.09.2013, organized by The World Bank at Marriot Hotel, Islamabad Pakistan.
- Ms. Zill-e-Huma, Lecturer
 - Biovision Alexandria NXT, 2012 (TWAS/BVA. NXT 2012) at the Center for Special Studies and Programs at the Bibliotheca Alexandria 21-22 April 2012. Alexandria, Egypt. Poster Presentation. Funding by TWAS.
- Ms. Sana Hanif, Lecturer
 - Oral Paper presentation in 1st International Conference on Safe Food and Human Health, 10-11 Jan, 2012, organized by: Department Of Food Science, Government College University, and Faisalabad, Pakistan. Title: Residual Analysis of Different Fungicides In/On Tomato Fruit.
- Miss Shabnam Javed, Lecturer
 - Displayed stall in Seminar on "Developing Local Food Additives/Preservatives" 5th Nov 2012, organized by IRP in collaboration with University of the Punjab (ORIC & Institute of Agricultural Sciences) and Pakistan Society of Food Scientists & Technologists (PSFST)-Lahore. Al-Razi Hall, Undergraduate Block, PU.
- Mr. Muhammad Shafiq, Lecturer
 - Shafiq, M., Ahmad, I., Haider, M.S. and Asad, S., 2012. The role of Cauliflower mosaic virus (CaMV) defence and silencing suppressor protein 6 (p6) in modulating auxin signaling oral presented at 10th Australasian Plant Virology Workshop (10th APVW) 19-22 November 2012 Hanmer Springs, New Zealand organized by The New Zealand Institute for Plant & Food Research Ltd.
- Mr. Adnan Zahid, Lecturer
 - One day workshop on Quantitative analysis in SPPS, University of the Punjab, Lahore
- Mr. Muhammad Tariq Manzoor, Research Officer
 - Participated in National Seminar entitled "Two days invention to innovation summit 2013 +UIP Exhibition of indigenous technologies" held in university of the Punjab on April 9-10, 2013.
 - Attended training workshop as member organizing committee on "Cotton Leaf Curl Disease Diagnostics and Resistance" on August 26-28, 2013.



- Participated in two days workshop on faculty professional training for the core module: Teaching as a profession and communication skills held on June 19-20, 2013.
- Attended 1st National conference on "prospects and opportunities for agricultural developments in Pakistan" Held on June 25-27,2013.
- **Research Journals**
 - Dr. M. Saleem Haider, Professor & Director
 - Ali, A., Haider, M.S. and Hanif, S. (2013). Bio-control assays of plant pathogenic bacteria with different solvents of *Datura alba* Nees. *Pak. J. Weed Sci. Res.*, 19(3): 295-303
 - Ashfaq, M., Haider, M.S., Khan, A.S. and Allah, S.U. (2013). Heterosis studies for various morphological traits of basmati rice germplasm under water stress conditions. *Journal of Animal & Plant Sciences*, 23(4): 1131-1139 (Impact Factor 0.638).
 - Ashfaq, M., Ali, A., Siddique, S., Haider, M.S., Ali, M., Hussain, S.B. and Mubashar, U. (2013). In vitro antibacterial activity of *Parthenium hysterophorus* against isolated bacterial species from discoloured rice grains. *International Journal of Agriculture & Biology* [Accepted] (Impact Factor 0.808)
 - Ali, S.W., Yu, F.B., Haider, M.S., Yan, X. and Li, S.P. (2013). Phenotypic and phylogenetic characterization of an abamectin-degrading bacterial strain isolated from a citrus orchard. *J. Gen. Appl. Microbiol.*, 59: 215-225. (Impact Factor 0.98).
 - Iftikhar, S., Shahid, A.A., Javed, S., Nasir, I.A., Tabassum, B. and Haider, M.S. (2013). Essential oils and lattices as novel antiviral agent against potato leaf roll virus and analysis of their phytochemical constituents responsible for antiviral activity. *Journal of Agricultural Sciences*, 5(7): 167-187. (Impact Factor 1.24).
 - Ashraf, M.A., Shahid, A.A., Mohamed, B.B., Dahab, A.A., Bajwa, K.S., Rao, A.Q., Khan, M.A.U., Ilyas, M., Haider, M.S. and Husnain, T. (2013). Molecular characterization and phylogenetic analysis of a variant of highly infectious cotton leaf curl Burewala virus associated with CLCuD from Pakistan. *Australian Journal of Crop Science*, 7(8): 1113-1122. (Impact Factor 1.63).
 - Haider, MS, Manzoor, MT and Shafiq, M (2013). First report of mastrevirus infecting cotton (*Gossypium hirsutum*) in Pakistan. *International Journal of Arts and Sciences* (Accepted).
 - Haider MS., Hussain Z., Qureshi Z. U. A, Andrés Velasco-Villa, Afzal S. and Xiang WU. (2013) Development of Genetically Recombinant Rabies Vaccine. Published in Abstract Book of *Journal of Antivirals and Antiretrovirals*, 4(4): 37. (Impact Factor 2.61)
 - Ali, A., Haider, M.S., Hanif, S., Akhtar, N. and Ashfaq, M., 2013. Bio-control of bacterial species isolated from diseased citrus fruits by methanolic extracts of weeds in vitro. *European Journal of Experimental Biology*, 3(1): 1-9.



- Khokhar, I., Haider, M.S., Ashfaq, M., Mukhtar, I., Ali, A. and Mushtaq, S., 2013. Effect of *Penicillium* species culture filtrate on seedling growth of wheat. *International Research Journal of Agricultural Science and Soil Science*, 3(1): 24-29.
- Hussain, Z., Haider, M.S., Zafar Ul Ehsan Qureshi, Andres Velasco-Villa, Shahida Afzaal and Xianfu Wu (2012). Efficacy Test in Mice of Two Novel Rabies Vaccine Candidates Using a Pakistan Rabies Virus Glycoprotein Gene. *J Antivir. Antiretrovir.*, S15: 1-4 (Impact Factor 3.263).
- Mukhtar I., Mushtaq S., Haider MS and Khokar I (2012). Comparative analysis of autotoxicity in different weeds. *Pakistan Journal Phytopathology*, 24(2): 85-89 (HEC recognized).
- Ibrahim, A., Shahid, A.A., Shafiq, M. and Haider, M.S., 2012. Management of root-knot nematodes on the turnip plant (*Brassica rapa*) by using fungus (*Trichoderma harzianum*) and neem (*Azadirachta indica*) and effect on the growth rate. *Pakistan Journal of Phytopathology*, 24(2): 101-105.
- Hina S., Javed A, Haider M.S. and Saleem M. (2012) Isolation and sequence analyses of cotton infecting begomoviruses. *Pakistan Journal of Botany*, special issue March 2012. Vol. 44, 223-230. (Impact Factor 0.520)
- Ali A., Haider MS., Mushtaq S. Khokhar I., Mukhtar I. Hanif S and Akhtar N. (2012) In vitro, controlling the establishment of *Xanthomonas campestris* with different bacterial bioagents. *Global Advanced Research Journal of Microbiology* Vol. 18 pp 136-140.
- Bashir M.F, Haider M.S., Rashid N. and Riaz S. (2012) Distribution of Hepatitis C virus (HCV) genotypes in different remote cities of Pakistan. *African Journal of Microbiology Research*. Vol. 6 (22) 4747-4751. (Impact Factor 0.583)
- Farooq AM., Nasir IA., Tabbusm B., Tariq M., Qamar Z., Khan MA., Ahmad N., Haider MS., Anwar W., Javed MA. And Hussnain T. (2012) Development and comparative studies of double cross tomato hybrids. *African Journal of Agricultural Research*. Vol. 7 (37) pp 5259-5264.
- Jamal A., Nasir IA., Tabbusm B., Tariq M., Farooq AM., Qamar Z., Khan MA., Ahmad N., Shafiq M., Haider MS., Javed MA. And Hussnain T. 2012. Molecular characterization of capsid protein gene of potato virus X from Pakistan. *African Journal of Biotechnology*. Vol. 11(74) pp 13854-13857. (Impact Factor 0.573)
- Ali A. Haider MS., Khokhar I., Bashir U., Mushtaq S., and Mukhtar I. (2012). Antibacterial activity of culture extracts of *Penicillium* species against soil-borne bacteria. *Mycopath*, 9(1) 17-20.
- Ilyas M., Nawaz K., Shafiq M., Haider MS. and Shahid AA (2012) Complete nucleotide sequence of two begomoviruses infecting Madagascarp periwinkle (*Catharanthus roseus*) from Pakistan. *Archives of Virology* (in Press) (Impact Factor 1.909)
- Naeem M., Ilyas M., Haider MS., Baig S. and Saleem M. (2012) Isolation, Characterization and Identification of Lactic Acid bacteria from fruit juices and their Efficacy against Antibiotics. *Pak. J. of Botany*, special issue March 2012. Vol. 44, 323-328. (Impact Factor 0.520)



- Khokhar I, Haider MS., Mushtaq S. and Mukhtar I. (2012) Isolation and Screening of Highly Cellulolytic Filamentous Fungi. *Scholarly Journal of Agricultural Sciences*. Vol. 27, pp 126-129.
- Sobia Mushtaq, Muhammad Saleem Haider, Amna Ali, Shabnam Javed, Ibatsam Khokhar, and Irum Mukhtar, , 2012. In vitro, comparative screening of antibacterial and antifungal activity of some common weed extracts. *Pakistan journal of Weed Science Research*, 18: 15-25.
- Irum Mukhtar, Ibatsam Khokhar, Muhammad Saleem Haider and Sobia Mushtaq, 2012. New record of *Ramularia* leaf spot on *Aristolochia punjabensis* L. in Pakistan. *African Journal of Microbiology Research* Vol. 6(30) pp6013-6015 (IF: 0.583).
- Ashfaq M, Haider M.S., Khan A.S and Ullah S. (2012) Breeding potential of the basmati rice germplasm under water stress condition. *African Journal of Biotechnology*. Vol. 11(25) 6647-6657. (Impact Factor 0.573)
- Anwar W., Khan S. N., and Haider M. S. (2012). Occurrence of Insect associated Fungi in Hot Arid Zone, Pakistan. *African Journal of Microbiology Research*. Vol. 6(1) (Impact Factor 0.533)
- Khokhar, I. Haider, M.S., Mukhtar, I. and Mushtaq, S. (2012). Biological Control of *Aspergillus niger*- the cause of Black-rot disease of *Allium cepa* (onion) by *Penicillium* species. *Journal of Agrobiology*. *Journal of Agrobiology*, 29(1): 23-28.
- Javed S, Shahid AA, Haider M. S, Umeera A, Ahmad R, Mushtaq S (2012). Nutritional, Phytochemical Potential & pharmacological evaluation Of *Nigella Sativa* (Kalonji) & *Trachyspermum Ammi* (Ajwain). *J Med. Plants Res*. Vol. 6(5) 768-775 (Impact Factor 0.879)
- Javed S, Mushtaq S, Khokhar, I., Ahmad, R. and Haider MS (2012). Comparative antimicrobial activity of clove & fennel essential oils against food borne pathogenic fungi and food spoilage bacteria. *African Journal of Biotechnology*, 11(94): 16065-16070 (Impact Factor 0.573).
- Ashfaq, M., Khan, A.S. and Haider, M.S., 2012. Genetic variation of rice genotypes on the basis of root seedling trait by using single SSR marker under water stress condition. *European Journal of Scientific Research*, 82:
- Haider, M. S., Afghan, S., Riaz, H., Javed, MA, Tahir, M., Rashid, N. and Iqbal, J. (2011) Identification of two sugarcane mosaic virus (SCMV) variants from naturally infected sugarcane crop in Pakistan. *Pak J Bot*. 43(2) 1157-1162 (Impact Factor 0.520)
- Dr. Ghazala Nasim, Professor
 - Khurshid, S., Nasim, G., Bajwa, R. and Adkins, S., 2012. Growth responses of *Parthenium hysterophorus* L. growing under salt stress. *Pakistan Journal of Weed Science Research*, 18(1): 51-64.
 - Nasim, G. and Shabbir, A., 2012. Invasive weed species-A threat to sustainable agriculture. In: *Crop Production for Agricultural Improvement*, Mohammad Ashraf, Munir Ozturk,



- Muhammad Sajid Aqeel Ahmad and Ahmet Aksoy (eds.) Published by Springer-Verlag, Germany. Pp 523-556.
- Nasim, G., 2012. Arbuscular Mycorrhiza in Sustainable agriculture. In: Crop Production for Agricultural Improvement, Mohammad Ashraf, Munir Ozturk, Muhammad Sajid Aqeel Ahmad and Ahmet Aksoy (eds.) Published by Springer-Verlag, Germany. Pp. 581-618
 - Khokhar, I., Bajwa, R. and Nasim, G., 2012. Preservation of *Penicillium* species by Lyophilization. *African Journal of Food, Agriculture, Nutrition and Development*, 12(3): 6055-6064.
 - Nasim, G. and Shabbir, A., 2012. Shifting herbivory pattern due to climate change: a case study of Himalayan balsam from Pakistan. *Pakistan Journal of Botany*, 44 (Special issue): 63-68.) [IF:0.947].
 - Nasim, G., Khan, S. and Khokhar, I., 2012. Molecular polymorphism and phylogenetic relationship of some *Alternaria alternata* isolates. *Pakistan Journal of Botany*, 44(4): 1267-1270. [IF:0.947].
 - Nasim, G., 2012. Host allelopathy and arbuscular mycorrhizal fungi. In *Allelopathy: Current Trends and Future Applications*. Z. A. Cheema, Muhammad Farooq, Abdul Wahid (eds.). Published by Springer-Verlag, Germany. Pp. 429-450.
- Dr. Salik Nawaz Khan, Assistant Professor
- Anwar W., Khan S. N., and Haider M. S. (2012). Occurrence of Insect associated Fungi in Hot Arid Zone, *African Journal of Microbiology Research* Vol. 6(41), pp. 6878-6883. Available online at <http://www.academicjournals.org/AJMR>. (Impact Factor 0.533)
 - Shakil Ahmed*, Noor Zaman and Salik Nawaz Khan Management of root rot disease of groundnut (*Arachis hypogaea* L.) by plant extracts (2012) *African Journal of Microbiology Research*, 6(21), 4489-4494.
 - Shakil Ahmad*, Noor Zaman and Salik Nawaz Khan (2012). response of groundnut genotypes against root rot disease in district mianwali. *Pak. J. Bot.*, 44: 383-386,
 - Shakilahmed*, noorzaman and S. N. Khan (2012). Evaluation of manuring practices on root rot disease and agronomic characters of *Arachis hypogaea* L. *African Journal of Biotechnology*, 11(5), pp. 1119-1122,
 - Anwar W., Shafiq M., Haider M. S., Bibi A., and Khan S. N. (2012). First report of *Cochliobolus australiensis* causing leaf spot of Turfgrasses in Pakistan. Submitted to *New Disease Reports*. ISSN 2044-0588. (Impact Factor 2.368)
 - Suliman R., Khan S. N., Tahira J. J. and Anwar W., (2012) Assessment of Health Status, Microbial Association, Growth Responce and Resistance Potential of Coriander (*Coriandrum sativum* L.) Under Natural Condition (Accepted in *Pakistan Journal of Phytopathology*).



- Tahira J. J., Khan S. N., Suliman R., and Anwar W., (2012). Evaluation of Antifungal Potential of some plants (Garlic, Ginger & Onion) extracts against *Alternaria alternata* (Accepted in Pakistan Journal of Phytopathology).
- Anwar W., Khan S. N., Tahira J. J., Suliman R., Naz S., (2012). Assessment of Antifungal potential of some Aqueous plant extracts and fungicides against *Alternaria alternata*. (Submitted in African Journal of Microbiology, Impact Factor: 0.245)
- Anwar W., Ahmad S., Haider A., Nadeem M., & Sheer G., (2012). Biosynthesis of Alpha amylase from waste of Potato Processing Industry by *Aspergillus niger*. (Submitted in Pakistan Journal of Scientific and Industrial Research)
- Tahira J.J., Khan S.N., Anwar W. and Suliman R. (2012). Mycorrhizal association in some weeds of curcuma longa fields of district Kasur, Pakistan. Pak. J. Weed Sci. Res. 18(3): 331-335.
- Anwar W., Khan S. N., Tahira J. J., and Suliman R., (2012). Parthenium hysterophorous: an Emerging Threat for Curcuma longa Fields of Kasur District, Punjab (Pakistan). Pak. J. Weed Sci. Res. 18 (1): 91-97, 2012.
- Dr. Ahmad Ali Shahid, Assistant Professor
 - Iftikhar S; Shahid A A; Javed S; Nasir I A ;Tabassum B and Haider M S. (2013). Essential oils and latices as novel antiviral agent against potato leaf roll virus and analysis of their phytochemical constituents responsible for antiviral activity. Journal of Agricultural Science. 5 (7): 167-188.
 - Basu M M; González-Carranza Z H; Ali S A; Tang S; Shahid A A; and Roberts J A (2013). The Manipulation of auxin in the abscission zone cells of arabidopsis flowers reveals that indoleacetic acid signaling is a prerequisite for organ shedding. Plant Physiology. 162: 96-106.
 - Bajwa K S; Shahid A A; Rao, A Q; Kiani M S; Ashraf, M A; Dahab, A A; Bakhsh, A; Latif, A; Khan, M A U; Puspito, A U; Aftab, A; Bashir, A and Husnain, T. (2013). Expression of *Calotropis procera* expansin gene CpEXPA3 enhances cotton fibre strength. Australian Journal of Crop Sciences. 7(2):206-212.
 - Ashraf M A, Shahid A A, Mohamed B B, Dahab A A, Bajwa K S, Rao A Q, Khan M A U, Ilyas M, Haider M S and Husnain T (2013). Molecular characterization and phylogenetic analysis of a variant of highly infectious cotton leaf curl Burewala virus associated with CLCuD from Pakistan. Australian Journal of Crop Sciences. 7(8):1113-1122.
 - Ilyas M, Nawaz. K, Shafiq M, Haider M S and Shahid A A. (2013). Complete nucleotide sequences of two begomoviruses infecting Madagascar periwinkle (*Catharanthus roseus*) from Pakistan. Archives of Virology. 158(2):505-510.
 - Kiani S; Mohamed B B; Shehzad K; Jamal A; Shahid M N; Shahid A A and Husnain T. (2013). Chloroplast-targeted expression of recombinant crystal-protein gene in cotton: An unconventional combat with resistant pests. Journal of Biotechnology. 166:88-96.



- Zar S M, Ali S and Shahid A A (2013). The influence of carbon and nitrogen supplementation on alpha amylase productivity of *Bacillus amyloliquefaciens* IIB-14 using fuzzy-logic and two factorial design. *African Journal of Microbiology Research*. 7(2): 120-129.
- González-Carranza Z. H; Shahid, A. A; Zhang L; Yang L; Ninsuwan U and Roberts J A. (2012). A novel approach to dissect the abscission process in *Arabidopsis*. *Plant Physiology*. 160:1342-1356.
- Afzal M; Shahid A A; Shehzadi A; Nadeem S and Husnain T. (2012). RDNAnalyzer: A tool for DNA secondary structure prediction and sequence analysis. *Bioinformatics*, 8(14): 687-690.
- Israr, M; Shahid, A. A; Rahman, Z; Shahzad, M S; Ullah, O. and Husnain, T. (2012). Punjabi population data for seven X-chromosome short tandem repeat (X-STR) loci using a new multiplex system. *African Journal of Biotechnology*, 11(46): 10513-10516.
- Fatima S; Anjum T; Bajwa, R and Shahid A. A (2012). Identification of indigenous *Xanthomonas* isolates through 16S rRNA gene amplification and SDS PAGE analyses. *African Journal of Microbiology Research*, 6(15): 3651-3655.
- Shahid, A.A., Rao A.Q., Bakhsh, A and Husnain, T (2012). Entomopathogenic Fungi as Biological Controllers: New Insights into their Virulence and Pathogenicity, *Archives of Biological Sciences, Belgrade*, 64 (1): 21-42.
- Javed S., Shahid A. A., Muhammad, H. S., Umeera, A., Ahmad, R. and Mushtaq. S. (2012). Nutritional, Phytochemical Potential and Pharmacological evaluation of *Nigella Sativa* (Kalonji) & *Trachyspermum Ammi* (Ajwain). *Journal of Medicinal Plant Research*, 6(5): 786-775.
- Bakhsh A, Rao AQ, Khan G.A., Rashid B, Shahid AA and Husnain T (2012). Insect Resistance Studies of Transgenic Cotton Cultivar Harboring *cry1Ac* and *cry2A*. *Tarım Bilimleri Araştırı Dergisi* 5 (2): 167-171.
- Rahman M., Muhammad N., Shahid A. A. and Husnain T. (2012). Allelopathic effects of transgenic rice having *cry1Ac* and *cry2A* genes on seed germination of wheat and chickpea crops. *New Horizons in Science & Technology (NHS&T)*, 1(3):71-75.
- Rahman M., Muhammad N., Shahid A. A. and Husnain T. (2012). Elite transgenic lines of basmati-370 revealed high level of lodging resistance under field conditions. *Pure Applied Biology*. 1(2): 22-27.
- Shahid A A, Khalid S, Bakhsh A, Samiullah T R, Husnain T and Riazuddin S. (2012). Risk Assessment Studies of Transgenic Bt diet on Rats. *Pakistan Journal of Zoology*: 44.
- Rahman M, Rao A. Q., Batool F., Azam S., Shahid A. A. and Husnain T (2012). Transgene copy number and phenotypic variations in transgenic Basmati rice. *The Journal of Animal & Plant Sciences*, 22(4): 1004-1013.
- Ibrahim A., Shahid A. A., Shafiq M and Haider M. S. (2012). Management of root knot nematodes on the turnip plant (*brassica rapa*) by using fungus (*trichoderma harzianum*) and



neem (*azadirachta indica*) and effect on the growth rate. *Pakistan Journal of Phytopathology*. 24(2): 101-105.

- Dr. Tehmina Anjum, Assistant Professor
 - Wajeeha Irum, Tehmina Anjum, Mateen Abbas and Abdul Muqeet Khan. 2013. Estimation of Aflatoxin and Ochratoxin levels in Maize samples of Punjab, Pakistan. *Food Additives & Contaminants Part B-Surveillance*. (Accepted MS# 843205; IF: 0.831)
 - Nosheen Akhtar, Tehmina Anjum and Rasheda Jabeen. 2013. Isolation and identification of storage fungi from citrus sampled from major growing areas of Punjab, Pakistan. *International Journal of Agriculture and Biology*. (Accepted MS# IJAB-13-S-004; IF: 0.808)
 - Rabia Moeen, Tehmina Anjum and Waheed Akram. 2013. Biochemical and molecular basis of resistance in Sorghum against *Curvularia* leaf spot disease. *International Journal of Agriculture and Biology*. (Accepted MS# IJAB-13-891; IF: 0.808)
 - Waheed Akram, Tehmina Anjum, Basharat Ali, Aqeel Ahmad. 2013. Screening of native *Bacillus* strains to induce systemic resistance in tomato plants against *Fusarium* wilt in split root system and its field applications. *International Journal of Agriculture and Biology*. (Accepted MS# IJAB-13S-005; IF: 0.808)
 - Tehmina Anjum and Waheed Akram. 2013. First Record of *Acremonium* wilt in tomato from Pakistan. *Plant Disease*. (Accepted MS# PDIS-02-12-0121-PDN; IF: 2.455)
 - Zoobia Bashir, Aqeel Ahmad, Shazia Shafique, Tehmina Anjum, Sobiya Shafique and Waheed Akram. 2013. Quantification of cellulose contents by transmission spectrum of plant tissues. *Cellulose Chemistry and Technology*. 47(5-6): 509-513. (IF: 0.825)
 - Tehmina Anjum, Asma Azam and Wajeeha Irum. 2012. Production of Cyclosporin 'A' by submerged fermentation from a local isolate of *Penicillium fellutanum*. *Indian Journal of Pharmaceutical Sciences*. 74(4): 372 - 374. (IF: 0.338)
 - Tehmina Anjum, Sabin Fatima and Sana Amjad. 2012. Localized physiological changes in wheat during development of loose smut. *Tropical plant pathology*. 37(2):102-107. (IF: 0.513)
 - Asma Azam, Tehmina Anjum and Wajeeha Irum. 2012. *Trichoderma harzianum*: A new fungal source for the production of cyclosporin 'A'. *Bangladesh journal of pharmacology*. 7(1): 33 - 35. (IF: 0.356)
 - Tehmina Anjum, Waheed Akram, Aqeel Ahmad, Mazhar Hussain, Hina Aslam and Sabin Fatimah. 2013. An insight into the basis of resistance in *Sorghum bicolor* against *Colletotrichum sublineolum*. *African journal of microbiology research*. 7(15):1397-1408.
 - Asma Murtaza, Shazia Shafique, Tehmina Anjum, Sobiya Shafique. 2012. In vitro control of *Alternaria citri* using antifungal potentials of *Trichoderma* species. *African journal of biotechnology*. 11(42): 9985-9992.



- Sabin Fatima, Tehmina Anjum, Rukhsana Bajwa and Ahmad Ali Shahid. 2012. Identification of indigenous *Xanthomonas* isolates through 16S rRNA gene amplification and SDS PAGE Analyses. *African journal of microbiology research*. 6(15): 3651-3655.
- Sabin Fatima, Rukhsana Bajwa, Tehmina Anjum and Zafar Saleem. 2012. Assessment of genetic diversity among different indigenous *Xanthomonas* isolates via RAPD and ISSR. *African journal of microbiology research*. 6(9): 1947 - 1957.
- Wajeeha Irum and Tehmina Anjum. 2012. Production enhancement of Cyclosporin 'A' by *Aspergillus terreus* through mutation. *African Journal of biotechnology*. 11(7): 1736 - 1743.
- Dr. Arshad Javaid, Assistant Professor
 - Javaid, A. and Samad, S., 2012. Screening of allelopathic trees for their antifungal potential against *Alternaria alternata* strains isolated from dying back *Eucalyptus* spp. *Natural Product Research*, 26(18): 1697-1702. [Impact Factor 1.009]
 - Javaid, A. and Saddique, A., 2012. Control of charcoal rot fungus *Macrophomina phaseolina* by extracts of *Datura metel*. *Natural Product Research*, 26(18): 1715-1720. [Impact Factor 1.009]
 - Maraki, N., Siddiqui, I., Rizwana, H. and Javaid, A., 2012. New disease report of *Alternaria alternata* on spinach in Saudi Arabia. *Journal of Animal and Plant Sciences*, 22(1): 247-248. [Impact Factor 0.585]
 - Iqbal, J., Hussain, S., Ali, A. and Javaid, A., 2012. Biology and management of purple nutsedge (*Cyperus rotundus* L.). *Journal of Animal and Plant Sciences*, 22(2): 384-389. [Impact Factor 0.250]
 - Akbar, A. and Javaid, A., 2012. Evaluation of herbicidal potential of fungal metabolites against *Phalaris minor*. *African Journal of Microbiology Research*, 6(18): 4053-4057. [Impact Factor 0.539]
 - Javaid, A., Naqvi, S.F. and Shoaib, A., 2012. Antifungal activity of methanolic extracts of *Sorghum halepense* against *Macrophomina phaseolina*. *African Journal of Microbiology Research*, 6(28): 5814-5818. [Impact Factor 0.539]
 - Naqvi, S.F., Javaid, A. and Shoaib, A., 2012. Evaluation of antifungal activity of methanolic extracts of *Dicanthium annulatum* for the management of *Macrophomina phaseolina*. *African Journal of Microbiology Research*, 6(29): 5882-5886. [Impact Factor 0.539]
 - Javaid, A. and Riaz, T., 2012. *Parthenium hysterophorus* L., an alien invasive weed threatening natural vegetation in Punjab, Pakistan. *Pakistan Journal of Botany*, 44 (Special Issue May 2012): 123-126. [Impact Factor 0.836]
 - Riaz, T. and Javaid, A., 2012. Invasion of *Parthenium hysterophorus* L. in wastelands of district Nankana Sahib, Pakistan. *Pakistan Journal of Science*, 64(2): 80-84.



- Dr. Shakil Ahmed, Assistant Professor
 - Zaheer Ahmad Nasir, Ian Colbeck, Zulfiqar Ali and Shakil Ahmad. 2013.. Indoor particulate matter in developing countries: a case study in Pakistan and potential intervention strategies. *Environmental Research Letters*. (8) 024002 (8pp)
 - Zaheer Ahmad Nasir, Ian Colbeck, Sikander Sultan, Shakil Ahmad 2012.. Bioaerosols in residential micro-environments in low income countries: A case study from Pakistan. *Environmental Pollution*. 168:15-22.
 - Shakil Ahmed and Noor Zaman. 2012.. Evaluation of groundnut germplasm against root rot disease in agro-ecological conditions of district Chakwal, Punjab-Pakistan. *African Journal of Microbiology Research*. 6 (29), 5862-5865.
 - Shakil Ahmad, Noor Zaman and SN Khan. 2012. Response of groundnut genotypes against root rots disease in District Mianwali, Punjab-Pakistan. *Pakistan Journal of Botany*. 44: 383-386, Special Issue.
 - Shakil Ahmed, Noor Zaman and S N Khan. 2012. Effects of different plant leaf residues incorporation on growth, yield and root rot disease of groundnut. *African Journal of Biotechnology*. AJB-12-699.
 - Shakil Ahmed, Noor Zaman and Salik Nawaz Khan.2012. Management of root rot disease of groundnut (*Arachis hypogaea* L.) by plant extracts. *African Journal of Microbiology Research*. 6(21), 4489-4494.
 - Shakil Ahmed, Noor Zaman and S. N. Khan.2012. Evaluation of manuring practices on root rot disease and agronomic characters of *Arachis hypogaea* L. *African Journal of Biotechnology*. 11(5) 1119-1122.
 - Noor Zaman and Shakil Ahmed. 2012. Survey of root rot of groundnut in rainfed areas of Punjab, Pakistan. *African Journal of Biotechnology*. 11(21), 4791-4794.
- Dr. Amna Shoaib (Amna Javaid), Assistant Professor
 - A. Shoaib, Aslam N. and Aslam N. (2013). Trichoderma harzianum: desorption, desorption, isotherm and FTIR studies. *The Journal of Animal and Plant Sciences*, 23(5): 1460-1465. (Impact factor: 0.638)
 - A. Shoaib, Aslam N. Athar M. M. Akhtar S. Nafisa and K. Saba (2013). Removal of Cr(VI) ions through bread mold fungus. *Polish Journal Environmental Studies*, 22(4): 1171-1176. (Impact factor: 0.51)
 - A. Javaid, Shafique G, Ali Sand Shoaib A (2013). Effect of Culture Medium on Herbicidal Potential of Metabolites of Trichoderma Species against *Parthenium hysterophorus*. *International Journal of Agriculture and Biology*, 15: 1119-124. (Impact factor: 0.808)



- S. Javed, Shoaib A. Mahmood Z. Mushtaq S. and Iftikhtar S. (2012). Analysis of Phytochemical Constituents of *Eucalyptus citriodora* L. Responsible for Antifungal Activity against Post Harvest diseases. *Natural Product Research*, 26(18): 1732-1736. (Impact factor: 1.009)
- U. Shafique, Ahmed I. Salman M. Zaman W. Jamil N. Rehman R. and Javaid A. (2012). Removal of Arsenic from water using Pine leaves. *Journal of Taiwan Institute of Chemical Engineers*, 43: 256-26. (Impact factor: 2.11).
- S. Akhtar and Shoaib A. (2012). Biosorption, Solution to Arsenic Pollution. *Journal of Animal and Plant Sciences*, 22(3): 659-664. (Impact factor: 0.638)
- A. Shoaib, N. Aslam, A. Naureen and Nafisa (2012). Myco-agro sorbents: novel heavy metal sequestrers. *Mycopath* 10(1): 1-4.
- T. Manzoor, Shoaib A. and Bajwa R. (2012). Mycoremediation of Cu(II) and Ni(II). *African Journal of Microbiology Research*, 6(2): 236-244.
- F. Naqvi, Javaid A. and Shoaib A. (2012). Evaluation of antifungal activity of methanolic extracts of *Dicanthium annulatum* for the management of *Macrophomina phaseolina*. *African Journal of Microbiology Research*, 6(29): 5882-5886.
- F. Naqvi, Javaid A. and Shoaib A. (2012). Antifungal activity of methanolic extracts of *Sorghum helepenses* against *Macrophomina phaseolina*. *African Journal of Microbiology Research*, 6(28): 5814-5818.
- A. Shoaib, Aslam N. and Aslam N. (2012). Myco and Phyto Remediation of Heavy Metals from Aqueous Solution. *The online Journal of Science and Technology*, 2(3): 34-40
- Dr. Uzma Bashir, Assistant Professor
 - Uzma Bashir, Arshad Javaid and Rukhsana Bajwa 2012. Allelopathic effects of sunflower residue on growth of rice and subsequent wheat crop. *Chilean journal of Agricultural Research*. 72(3):326-331 (Impact factor 0.447)
 - Uzma Bashir, Sidra Javed and Muhammad Shafique 2012. Investigation of genetic variability among different isolates of *Fusarium solani*. *African journal of microbiology Research*. 6(24):5168-5172 (Impact factor 0.533)
 - Uzma Bashir and Justina Jane Tahira 2012. Evaluation of *Eucalyptus camaldulensis* against *Fusarium solani*. *International Journal of Agriculture and Biology*. 14(4): 675-677 (Impact factor 0.940)
 - Sidra Javed and Uzma Bashir 2012. Antifungal activity of allelopathic plant extracts of *Ageratum conyzoides* for the management of *Fusarium solani*. *African Journal of Biotechnology*. 11(49):11022-11029
- Dr. Shazia Shafique, Assistant Professor
 - Zunaira Zaheer, Shazia Shafique, Sobiya Shafique and Tahir Mehmood, 2012. Evaluation of pathogenic potential and genetic characterization of *Fusarium solani* - a cause of fusarium wilt in potato. *African Journal of Microbiology Research*. 6(8): 1762-176. (impact factor: 0.533)



- Zunaira Zaheer, Shazia Shafique, Sobiya Shafique and Tahir Mehmood, 2012. Antifungal potential of *Parthenium hysterophorus* L. plant extracts against *Fusarium solani*. *Scientific Research and Essays*. 7 (22): 2049-2054. (impact factor: 0.445)
- Shazia Shafique, Arooj Yousuf and Sobiya Shafique, 2012. Bioefficacy of extract of *Ageratum conyzoides* to control *Drechslera australiensis* and *Drechslera holmii*. *Pakistan Journal of Botany* (in press) (impact factor: 0.947)
- Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. Cytological and Physiological basis for tomato varietal resistance against *Alternaria alternata*. *Journal of the Science of Food and Agriculture*. 93: 2315-2322. (impact factor: 1.759)
- Sobiya Shafique, Shazia Shafique and Aqeel Ahmed, 2013. Ecofriendly Response of Citrus Peels to *Alternaria* Leaf Spots of Tomato: Exclusive Role of Peel Phenolics. *International Journal of Agriculture and Biology*. Accepted (impact factor: 0.808)
- Zoobia Bashir, Shazia Shafique, Aqeel Ahmad, Tehmina Anjum, Sobiya Shafique and Waheed Akram, 2013. Quantification of Cellulose Contents by Transmission Spectra of Plant Tissues. *cellulose Chemistry and Technology*, 47 (5-6), 509-513. (impact factor: 0.825)
- Sobiya Shafique, Ruqeyah Abdul Majeed and Shazia Shafique, 2012. *Cymbopogon citrates*: A remedy to control selected *Alternaria* species. *Journal of Medicinal Plants Research*, 6 (10): 1879-1885.
- Asma Murtaza, Shazia Shafique, Tehmina Anjum and Sobiya Shafique, 2012. In vitro control of *Alternaria citri* using antifungal potentials of *Trichoderma* species. *African Journal of Biotechnology*. 11 (42): 9985-9992.
- Dr. Muhammad Ashfaq, Assistant Professor
 - Ashfaq, M. and A.S., Khan (2012) Genetic diversity in basmati rice (*Oryza sativa* L.) germplasm as revealed by microsatellite (SSR) markers. *Russian Journal of Genetics*, 2012, Vol. 48, No. 1, pp. 53-62
 - M. Ashfaq, A.S. Khan, S.H.U. Khan and R. Ahmad, 2012. Association of various morphological traits with yield and genetic divergence in rice (*Oryza Sativa* L.). *Int. J. Agric. Biol.*, 14: 55-62
 - Muhammad Ashfaq, Muhammad Saleem Haider, Abdus Salam Khan and Sami Ul Allah (2012). Breeding potential of the basmati rice germplasm under water stress condition *African Journal of Biotechnology* Vol. 11(25), pp. 6647-6657.
 - Muhammad Sajjad, Sultan Habibullah Khan, Muhammad Ashfaq and Wajid Nasim, 2012. Association of seed morphology with seedling vigor in wheat (*Triticum aestivum* L), *Research in Plant Biology*, 2(5): 07-12.
 - Saima Gulnaz, Sultan Habibullah Khan, Munawar Shahzad, Muhammad Ashfaq And Muhammad Sajjad (2012) Genetic Evaluation of Spring Wheat (*Triticum aestivum*) Germplasm for Yield and Seedling Vigor Traits. *J. Agric. Soc. Sci.*, 8: 123-128.



- Muhammad Ashfaq, Abdus Salam Khan, and Muhammad Saleem Haider, 2012. Genetic Variation of Rice Genotypes on the Basis of Root Seedling Trait by using Single SSR Marker under Water Stress Condition. *EJSR* (87) 2: 267-277.
- Ibatsam Khokhar, Muhammad Saleem Haider, Irum Mukhtar, Amna Ali, Sobia Mushtaq, Muhammad Ashfaq, 2013. Effect of Penicillium species culture filtrate on seedling growth of wheat. *International Research Journal of Agricultural Science and Soil Science* (ISSN: 2251-0044) Vol. 3(1) pp. 24-29, January 2013.
- Amna Ali, Muhammad Saleem Haider, Sana Hanif, Nosheen Akhtar and Muhammad Ashfaq. 2013. Bio-control of bacterial species isolated from diseased citrus fruits by methanolic extracts of weeds in vitro. *European Journal of Experimental Biology*, 2013, 3(1):1-9.
- Muhammad Ashfaq, Muhammad Saleem Haider, Abdus Salam Khan and Sami Ul Allah. Heterosis Breeding for various morphological traits of basmati rice germplasm to develop new rice varieties under water stress conditions Published in *Journal of Animal and Plant Sciences*).
- In-vitro Antibacterial Activity of *Parthenium hysterophorus* Against Bacterial Species Isolated from Discolored Rice Grains Published in press *International Journal of Agriculture and Biology*).
- Muhammad Ashfaq, Muhammad Saleem Haider and Abdus Salam Khan. Genetic Potential of the Basmati Rice Germplasm for Development of Drought Tolerant Varieties" (2013) Proceeding Vol:ISBN 978-953-7871-08-6 pp:233-237 (Conference Publications)
- Dr. Rashid Mahmood, Assistant Professor
 - Kanwal, A., F. Anjum, H. Qudsia, A. Javaid and R. Mahmood.2012 (released in 2013).Evaluation of tebuconazole and thiophanate-methyl against some problematic soil-borne plant pathogens.*Mycopath* 10(1): 17-20.
 - Mahmood, R. and U. Bashir.2011 (released in 2013).Relationship between soil physicochemical characteristics and soil-borne diseases.*Mycopath* 9(2): 87-93.
 - Maqbool M. M., M. Ahmad, A. Ali, R. Mahmood, M. Ahmad and M. Sarwar. 2012. Optimizing the Method and Source of Phosphatic Nutrition for Wheat (*Triticumastivum*L.) Under Agro-Climate of Dera Ghazi Khan. *Pakistan Journal of Nutrition* 11 (9): 787-792.
 - Mahmood, R., M. Yaseen, A. Ali, J. Iqbal, S. Hussain and M. A. A. H. A. Bukhsh. 2012. Nutritional and Physiological Response of Wheat to Soil Applied Matrix-I Formulated Calcium Carbide with and Without Nitrogen Fertilizer. *Pakistan Journal of Nutrition* 11 (2): 154-159.

Papers submitted for publication

 - Mahmood, R., M. Naseer, A. A. Shahid and A. Usmani. Screening of indigenous weed extracts against *Fusariumsolani* with an emphasis to soil fertility related microbial activities.



- Submitted to "Journal of Food, Agriculture & Environment" (submitted in 2013)
- Mahmood, R., A. A. Shahid, A. Usmani, M. S. Haider and S. Ali. Nitrification Inhibition Potential of Some Common Weeds, and Maize Growth Response to Soil Drenching with Parthenium hysterophorus extract. Submitted to "Philippine Agricultural Scientist" (Submitted in 2013; under review)
- Khan, H. A. A., W. Akram, T. Khan, N. Iqbal and R. Mahmood. Leaf traits and insect gall formation in mango, mangifera indica L. Submitted to "Pakistan Journal of Agricultural Sciences" (Submitted in 2013; under review)
 - Mahmood, R. and M. Yaseen. Effectiveness of calcium carbide formulations in emergence stimulation and growth of wheat seedlings. Submitted to "Pakistan Journal of Agricultural Sciences" (Submitted in 2013; under review).
 - Mahmood, R. and M. Yaseen. Growth and yield response of wheat to soil applied formulated calcium carbide under field conditions. Submitted to "Journal of Plant Nutrition" (Submitted in 2013; under review).
 - Maqbool, M. M., A. Tanveer, A. Ali, Tanveer-ul-Haq, R. Mahmood. Growth and yield responses of maize (Zea mays L.) to inter and intra-row weed competition under different fertilizer application methods. Submitted to "Philippine Agricultural Scientist" (Submitted in 2013; under review).
 - Mahmood, R. and M. Yaseen. Calcium carbide based formulations cause a slow release of acetylene and ethylene in the soil and inhibits nitrification. Submitted "Communications in Soil Science and Plant Analysis" (Submitted in 2012; under review).
 - Mahmood, R., A. Ali and M. Ahmad. Role of encapsulated calcium carbide in crop nitrogen economy and growth and development of Wheat. Submitted to "The Journal of Animal and Plant Sciences" (Submitted in 2012).
- Dr. Bilal Chattha, Assistant Professor
 - Mahmood, N., T. Ali, M.S. Bajwa, M. Shahbaz and M.B. Chattha. 2013. Analysis of the adoption of wheat sowing recommendations among small farmers using water saving interventions. J. Animal and Pl. Sci. 23(1):309-312.
 - Dr. Shinawar Waseem Ali, Assistant Professor
 - Shinawar Waseem Ali, Muhammad Saleem Haider, Muhammad Riaz and Muhammad Hassan Mushtaq. Decontaminating mycotoxins in agricultural produce following bioremediation approach. Scientific Bulletin-Series F-Biotechnologies, 17 (2013) 225-227.
 - Shinawar Waseem Ali, Fang-Bo Yu, Muhammad Saleem Haider, Xin Yan and Shun-Peng Li. Phenotypic and phylogenetic characterization of an abamectin-degrading bacterial strain



- isolated from a citrus orchard. *Journal of General and Applied Microbiology*. 59 (2013) 215-225. (Impact factor: 1.0)
- Fang-Bo Yu, Shinawar Waseem Ali, Xiao-Bo Fang, Sheng-Dao Shan and Li-Bo Guan. Identification and characterization of four bacterial strains isolated from a bioaugmented sequencing batch reactor. *Journal of General and Applied Microbiology*. 59 (2013) 251-256. (Impact factor: 1.0)
 - Fang-Bo Yu, Shinawar Waseem Ali, Jing-Ya Sun and Ling-Ping Luo. Isolation and Characterization of an Endosulfan-Degrading Strain *Stenotrophomonas* sp. LD-6, and its Potential in Soil Bioremediation. *Polish Journal of Microbiology*. 61 (2012) 257-262. (Impact factor: 0.76)
 - Chang Liu, Shinawar Waseem Ali, Li-Bo Guan, Fang-Bo Yu, Shun-Peng Li, and M.H. Wong. Biotreatment of o-nitrobenzaldehyde manufacturing wastewater and changes in activated sludge flocs in a sequencing batch reactor. *Bioresource Technology*. 104 (2012) 228-234. DOI:10.1016/j.biortech.2011.11. (Impact factor: 4.3)
 - Shinawar Waseem Ali, Fang-Bo Yu, Lian-Tai Li, Xiao-Hui Li, Li-Feng Gu, Jiang Jian-dong and Shun-Peng Li. Studies revealing bioremediation potential of the strain *Burkholderia* sp. GB-01 for abamectin contaminated soils. *World Journal of Microbiology and Biotechnology*. 28 (2012) 39-45. DOI: 10.1007/s11274-011-0790-7 (Impact factor: 1.1).
- Dr. Sobiya Shafique, Assistant Professor
- Zunaira Zaheer, Shazia Shafique, Sobiya Shafique and Tahir Mehmood, 2012. Evaluation of pathogenic potential and genetic characterization of *Fusarium solani* - a cause of fusarium wilt in potato. *African Journal of Microbiology Research*. 6(8): 1762-1765. (impact factor: 0.533)
 - Zunaira Zaheer, Shazia Shafique, Sobiya Shafique and Tahir Mehmood, 2012. Antifungal potential of *Parthenium hysterophorus* L. plant extracts against *Fusarium solani*. *Scientific Research and Essays*. 7(22): 2049-2054. (impact factor: 0.445)
 - Shazia Shafique, Arooj Yousuf and Sobiya Shafique, 2013. Bioefficacy of extract of *Ageratum conyzoides* to control *Drechslera australiensis* and *Drechslera holmii*. *Pakistan Journal of Botany* (in press) (impact factor: 0.947)
 - Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. Cytological and Physiological basis for tomato varietal resistance against *Alternaria alternata*. *Journal of the Science of Food and Agriculture*. 93: 2315-2322. (impact factor: 1.759)
 - Sobiya Shafique, Shazia Shafique and Aqeel Ahmed, 2013. Ecofriendly Response of Citrus Peels to *Alternaria* Leaf Spots of Tomato: Exclusive Role of Peel Phenolics. *International Journal of Agriculture and Biology*. Accepted (impact factor: 0.808)



- Zoobia Bashir, Shazia Shafique, Aqeel Ahmad, Tehmina Anjum, Sobiya Shafique and Waheed Akram, 2013. Quantification of Cellulose Contents by Transmission Spectra of Plant Tissues. *Cellulose Chemistry and Technology*, 47 (5-6), 509-513. (impact factor: 0.825)
- Sobiya Shafique, Ruqeyah Abdul Majeed and Shazia Shafique, 2012. *Cymbopogon citrates*: A remedy to control selected *Alternaria* species. *Journal of Medicinal Plants Research*, 6 (10): 1879-1885.
- Asma Murtaza, Shazia Shafique, Tehmina Anjum and Sobiya Shafique, 2012. In vitro control of *Alternaria citri* using antifungal potentials of *Trichoderma* species. *African Journal of Biotechnology*. 11 (42): 9985-9992.
- Dr. Asad Shabbir, Assistant Professor
 - Nasim G. and Shabbir A. 2012. Shifting herbivory pattern due to climate change: a case study of Himalayan balsam from Pakistan *Pak. J. Bot.*, 44: 63-68.
 - Zalucki M. P., Shabbir A., Silva R., Adamson D., Liu S.-S. & Furlong M.J. 2012. Estimating the economic cost of one of the world's major insect pests, *Plutella xylostella*: just how long is a piece of string? *Journal of Economic Entomology* 105 (4) 1115-1129
 - Nasim, G., Shabbir A. 2012. Invasive Weed Species- A Threat to Sustainable Agriculture. In: *Crop Production for Agricultural Improvement*, Mohammad Ashraf, Munir Ozturk, Muhammad Sajid Aqeel Ahmad and Ahmet Aksoy (eds.) Springer-Verlag, Germany. pp 523-556.
 - Shabbir, A. Dhileepan, K., O'Donnell, C., Adkins, SW. 2013. Complementing biological control with plant suppression: implications for improved management of parthenium weed (*Parthenium hysterophorus* L.). *Biological Control* 64 (3) 270-275
 - Dhileepan, K., Taylor, D.B.J., McCarthy, J., King, A. Shabbir, A. (2013) Development of cat's claw creeper leaf-tying moth *Hypocossia pyrochroma* (Lepidoptera: Pyralidae) at different temperatures: Implications for establishment as a biological control agent in Australia and South Africa. *Biological Control*. doi:<http://dx.doi.org/10.1016/j.biocontrol.2013.08.008>
- Dr. Naureen Akhtar, Assistant Professor
 - Shiela E Unkles, Eugenia Karabika, Vicki F Symington, Jennifer L Cecile, Duncan A Rouch, Naureen Akhtar, Brett A Cromer and James R Kinghorn, 2012. Alanine scanning mutagenesis of a high-affinity nitrate transporter highlights the requirement for glycine and asparagine residues in the two nitrate signature motifs. *Biochemical Journal*, 447(1):35-42.
- Dr. Shahbaz Ahmad, Assistant Professor
 - Ahmad, S., M. Saleem Haider and N, Mahmood, 2012. Management of Sugarcane Stem Borer (*Chilo infuscatellus*, Pyralidae Lepidoptera) by using cultural and mechanical control methods. *Egypt. J. Agric. Res.*, 90(2): 151-157.



- Ahmad, S., M. Ashfaq, M. Hassan and S. T. Sahi, 2012. Potential of parasitoid *Trichogramma chilonis* against the Sugarcane Stem Borer (*Chilo infuscatellus*, Pyralidae Lepidoptera) under field conditions. *Int. J. Bio and conservation*, 4(1): 36-38.
- Dr. Sajid Ali, Assistant Professor
 - Sajid Ali and B. Honermeier. 2013. Flavonoid concentrations of artichoke (*Cynara cardunculus* L.) leaves under the influence of harvest frequency and plant density. *Z Arznei-Gewurzpfla* 18 (2): 80-86 [IF: 0.316]
 - Sajid Ali & B. Honermeier. 2013. Can herbicide stress in artichoke (*Cynara cardunculus* L.) be detected by chlorophyll fluorescence? *Int. J. Agri. Biol.* [IF: 0.808] (In Press)
 - Bernd Honermeier, S. Ali, B. Leschhorn, A. Mahmood, M. Ijaz, M. Russo, M. Shafiee, H. Ullah and S. Zeller. 2013. Cultivation of medicinal and spice plants in Germany. *Int. J. Agri. Biol.* [IF: 0.808] (In Press)
 - Sajid Ali. 2013. Can post harvest treatments influence the quality and shelf life of tomato? In Abstracts, DAAD-HEC International Summer School "Food Security in Times of Climate Change". 02-05 Nov. 2013. Department of Biosciences, COMSATS Institute of Information Technology, Islamabad, Pakistan. pp 34.
 - Sajid Ali, B. Honermeier. 2013. Can herbicide stress be detected by chlorophyll fluorescence and polyphenol analysis in artichoke (*Cynara cardunculus* L)? In Abstracts, International conference on Crop Management in Changing Climate. 11-13 Feb. 2013. University of Agriculture, Faisalabad, Pakistan. pp 27.
 - Sajid Ali, A. A. Shahid, N. Ahmad, J. Khan, W. Tariq and M. S. Haider. 2013. Influence of light interception and nitrogen fertilization on yield and concentration of polyphenols in fennel (*Foeniculum vulgare* L.). In Abstracts, International conference on Crop Management in Changing Climate. 11-13 Feb. 2013. University of Agriculture, Faisalabad, Pakistan. pp 28.
 - Muhammad Bilal Chattha, N. Mahmood, S. Ali, R. Mahmood, M. U. Chattha and M. U. Chattha. 2013. Response of spring planted sugarcane (*Saccharum officinarum* L.) to earthing up and fertilizer levels. In Abstracts, International conference on Crop Management in Changing Climate. 11-13 Feb. 2013. University of Agriculture, Faisalabad. Pakistan. pp 51.
 - Muhammad Nadeem, S. Ali, M. A. Wahid and M. Shahid. 2013. Nutrient cycling in agro-ecosystem: Environmental friendly use of phosphorus fertilizer for sustainable crop production in Pakistan. In Abstracts, 1st International Conference on Global Environmental Changes January 15-16 Jan. 2013, Faisalabad, Pakistan. pp 114.
 - Sajid Ali, A. Laique, M. Shafique, S. J. Khan and S. Atta. 2012. Comparative Study of Mushroom growth on different media. *Mycopath* 10 (1): 37-39



- Dr. Muhammad Ali, Assistant Professor
 - M. Ali., Ashfaq M., Haider M.S., Ashfaq M. and Anjum F. Bio Chemical characters of eggplant (*Solanum melongena* L.) leaves and their correlation with the fluctuations of jassid (*Amrasca biguttula biguttula*(Ishida)) populations. Proceeding of XV EUCARPIA Meeting on Genetics and Breeding of Capsicum and Eggplant 2-4 September 2013, Torino Italy. pp (21-27).
 - David B. Stafford, Muhammad Tariq, Denis J. Wright, John T. Rossiter, Eleana Kazana, Simon R. Leather, Muhammad Ali and Joanna T. Staley (2012), Opposing effects of organic and conventional fertilizers on the performance of a generalist and a specialist aphid species. *Agricultural and Forest Entomology* DOI: 10.1111/j.1461-9563.2011.00565.
 - Ali, M., Ashfaq, M., Akram W., Sahi , S. T. and Ali, A., 2012. The physio-morphic characters of the brinjal (*Solanum melongena* L.) plant and their relationship with the jassid (*Amrasca biguttula biguttula* (Ishida) population fluctuation. *Pak. J. Agri. Sci.*, Vol. 49(1), 73-77.
- Ms. Sana Hanif, Lecturer
 - Amna Ali, Muhammad Saleem Haider, Sana Hanif , Nosheen Akhtar, Muhammad Ashfaq,2013,Bio-control of bacterial species isolated from diseased citrus fruits by methanolic extracts of weeds in vitro. *Euorpean Journal Of Experimental Biology*, 3(1): 1-9
 - Amna Ali,Muhammad Saleem Haider and Sana Hanif,Biocontrol assays of plant pathogenic assays of plant pathogenic bacteria with different solvents of *Datura Alba* Nees Pak. *JOURNAL OF WEED SCIENCE RESEARCH.*,19(3): 295 - 303, 2013. (HEC Recognized)
 - Amna Ali, Muhammad Saleem Haider, Sana Hanif, 2013, analysis of bacterial diversity in Agronomic crops from Pakistan. *Bangladesh Journal of Botany*. (accepted) (impact factor = 0.24).
- Mr. Muhammad Shafiq, Lecturer
 - Muhammad Ilyas. Kiran Nawaz. Muhammad Shafiq. Muhammad Saleem Haider. Ahmad Ali Shahid, 2013. Complete nucleotide sequences of two begomoviruses infecting Madagascar periwinkle (*Catharanthus roseus*) from Pakistan. *Archives of Virology*, Vol. 158.
 - W. Anwar, M. Shafiq, M. S. Haider, A. Bibi, and S. N. Khan, 2013. *Cochliobolus australiensis* causing leaf spot of Turfgrasses in Pakistan. *Journal of Plant Pathology*, Vol. 95.
 - Mr. Adnan Zahid, Lecturer
 - Zahid. A., Azra. K. and Ansar. M. (2012). Effect of Cutting and Post cutting Intervals on Hydrogen Cyanide in Sorghum Forage grown under Rain fed conditions. *Pak. J. Bot.*, 44(3): 955-960
 - Zahid. A., Azra. K, Ansar. M, Shahid.A.A., Kashif. A.K. (2012). Influence of cultivars and growth stages on morphological and chemical changes in sorghum (*Sorghum bicolor* L. Moench) under dry conditions in Pakistan.3rd International Conference on Agriculture and Animals Sciences 24-25 November Bangkok, Thailand
 - Mr. Azhar Ali Khan, Lecturer
 - Khan HAA, Shad SA, Akram W. combination of phagostimulant and visual lure as an effective tool in designing house flies toxic baits. *PLoS ONE* 8:e77225 (Impact Factor=4.09) (HEC Recognized)



- Khan HAA, Akram W, Shad SA. Resistance to conventional insecticides in *Musca domestica* L. from dairies in Punjab, Pakistan. *Ecotoxicology* 22: 522-527. (Impact Factor=2.773) (HEC Recognized)
- Khan HAA, Akram W, Shad SA. 2013. A cross sectional survey of knowledge, attitude and practices related to house flies among dairy farmers in Punjab, Pakistan. *Journal of Ethnobiology and Ethnomedicine*. 9: 1-8. (Impact Factor=2.42) (HEC Recognized)
- Khan HAA, Shad SA, Akram W. 2013. Resistance to new insecticides in *Musca domestica* L. from dairies in Punjab, Pakistan. *Parasitology Research* 112: 2049-2054 (Impact Factor=2.852) (HEC Recognized)
- Khan HAA, Shad SA, Akram W, Lee JJ. 2013. Insecticide mixtures could enhance the toxicity of insecticides in a resistant population of *Musca domestica* L. *PLOS ONE* (Impact Factor=4.09)
- Khan HAA, Akram W, Ahmed N. 2013. Mango leaf gall formation: Varietal susceptibility and within tree distribution. *Pakistan Journal of Agricultural Sciences*, (Impact Factor=1.24) (HEC Recognized)
- Khan HAA, Akram W: 2013. Citrus-based essential oils could be used for dengue vector mosquitoes control. *Asian Pacific Journal of Tropical Medicine* (Impact Factor=0.502)
- Dr. Zaheer Hussain, Lecturer
 - Muhammad Saleem Haider, Zaheer Hussain, Zafar Ul Ehasan Qureshi, Xiang WU , and Charles Rupperchet (2012) Development of genetically recombinant rabies vaccine (conference Abstract) *J Antivir Antiretrovir* Issn 2012, 4:4
 - Zaheer Hussain, Muhammad Saleem Haider, Zafar Ul Ehsan Qureshi, Andres Velasco-Villa, Shahida Afzaal and Xianfu Wu (2012) Efficacy Test in Mice of Two Novel Rabies Vaccine Candidates Using a Pakistan Rabies Virus Glycoprotein Gene J *Antivir Antiretrovir* 2012, S15 (Impact Factor 3.263)
 - Shahida Afzaal, Muhammad Numan, Zafar ul Ahsan Qureshi, Munazza Shaukat, Imtiaz Ahmad Khan , Zaheer Hussain, Zain ul Abidin, Abdul Whab Manzoor, Mudasser Habib (2013). Ante-Mortem Diagnosis of Rabies in Cows and Buffaloes. *Journal of Advanced Veterinary Research* 3: 27-30
- Mr. Waheed Anwar, Research Officer
 - W. Anwar, M. Shafiq, M.S. Haider, A. Bibi, and S.N. Khan.(2013). First Report Of *Cochliobolus Australiensis* Causing Leaf Spot Of Bermudagrass In Pakistan. *Journal of Plant Pathology* .Vol 95, No 2 (2013) doi: 10.4454/ JPP.V95I2.016.

RESEARCH COLLABORATION

- **Indigenous**
 - Central Cotton Research Institute, Multan



- Ayub Agricultural Research Institute, Faisalabad
- Environment Protection Department (EPD), Lahore
- Rice Research Centre Bahawalnagar.
- Adaptive Research Farm Gujranwala (Agriculture Department).
- Centre of Excellence in Molecular Biology.
- Higher Education Commission Islamabad.
- **Foreign Linkages**
 - Punjab University – PARB – University of Toronto, Canada
 - Punjab University – ICARDA –USDA, University of Arizona, USA
- **Funding Grants for R&D**
 - M. Saleem Haider. An amount of Rs.30,80,679/- has been granted for a research project entitled "Pak-US Cotton Productivity Enhancement Project" by USDA through International Centre for Agricultural Research in the Dry Areas (ICARDA).
 - M. Saleem Haider. PARB funded research project for CLCuV resistance, Worth Rs 28 million (2009-2013)
 - Tehmina Anjum. Strengthening of Fungal Biotechnology Lab in Institute of Agricultural Sciences, University of the Punjab. (2011 - 2012). Grant = 0.772 Million Rs by PU.
 - Tehmina Anjum. Principal investigator in one year (2011-2012) project entitled "Use of extracts from local medicinal trees to control Alternaria leaf spot of tomato". Grant = 1,50,000/Rs by PU.
 - Dr. Arshad Javaid (2011-12), entitled "Biological Control of Charcoal Rot of Mungbean by Trichoderma and Sisymbrium Irio" by University of the Punjab Lahore. (Grant Rs.150,000/-)
 - Dr. Arshad Javaid, (2011-12), "Lumsum Research Grant" by University of the Punjab Lahore (Grant Rs.769,000/-)
 - Dr. Shakil Ahmed, entitled "Biological Treatment of pulp and paper industrial effluent by white rot fungi" funded by the University of the Punjab. (Grant Rs.150,000/-)
 - Shazia Shafique. Principal Investigator in one year (2011) project entitled "Cymbopogon Citratus as a remedy to control Alternaria species - a cause of leaf spot diseases" Grant Rs.150, 000/-)
 - Dr. Sobiya Shafique. Principal Investigator in one year (2011) project entitled "Bioefficacy of extracts of Ageratum cornyzoides to control Drechslera species" awarded by the University of the Punjab, Lahore, Pakistan, 2011. Grant Rs.150,000/-)

INSTITUTE OF APPLIED PSYCHOLOGY

- **Research & Development – An Overview**
 - A Centre for Psychological Research and Services has been established as a unit of the Institute of Applied Psychology. The aim is to produce high quality research. All the information on Institutional research is also available on www.pu.edu.pk/appsy. Since its inception, the centre



has also been actively engaged in rendering informal professional services to the individuals. Appropriate services are also provided to the organizations such as: Social Welfare Departments, Prisons, Staff Training Institutions, Civil Defense, Selection Boards, Business Organizations and Educational Institutions. Research projects are integral part of all academic programs and faculty members are actively involved in carrying out individual research as well research supervision. They win research grants each year, present their research work at international forums and publish research work in journals of repute.

- **Projects (i) Completed**

Sr. No.	Project Name	Name of Faculty Member
1.	Changing Beliefs about Relational Victimization among Young People.	Dr. Naumana Amjad
2.	Job satisfaction, organizational Commitment and Turnover Intentions in relation to perceived organizational politics among administrative staff of University of the Punjab	Ms Shazia Khalid
3.	Neuropsychological Functioning in Patients Diagnosed with Myocardial Infarction: With and Without Type II Diabetes (duration 1 year)	Dr. Rafia Rafique
4.	Religious Involvement, Family Functioning and Conflict Resolution in Family Relationships	Dr. Afsheen Masood
5.	Self-Perception and Employee Perception about Female Managers: Role of Stereotype Beliefs, Gender Role Egalitarian Attitude and Organizational Culture.	Ms Tahira Mubashir

- **Projects (ii) Newly Launched**

Sr. No.	Project Name	Name of Faculty Member
1.	Cognitive and Neurological Functioning of Elderly: A comparison of Punjab and Gilgit Baltistan.	Prof. Dr. Rukhsana Kausar
2.	Parental Power/Prestige and the Effects of Paternal Versus Maternal Acceptance on the Psychological Adjustment of Offspring with Prof. Najma Najam, Vice Chancellor, Karakoram International University.	Prof. Dr. Rukhsana Kausar
3.	Parental Power/Prestige and the Effects of Paternal Versus Maternal Acceptance on the Psychological Adjustment of Offspring with Dr. Farah Malik, Government College University, Lahore	Prof. Dr. Rukhsana Kausar
4.	Creating Interfaith Compassion and Reducing Prejudice	Dr. Naumana Amjad
5.	Belief in a just world, Aggression and Well-being among Plaintiffs.	Dr. Iram Fatima
6.	Job satisfaction, organizational commitment and Turnover intentions in relation to perceived organizational commitment in Punjab University administrative staff.	Ms. Shazia Khalid
7.	Psychological Stress, Distress, Lifestyle and Anthropometric Correlates of Essential Hypertension.	Dr. Rafia Rafique
8.	Perceived Health Status and Quality of Life among Renal Transplant Recipients	Dr. Fatima Kamran



Sr. No.	Project Name	Name of Faculty Member
9.	Psycho-Social and Behavioral Skills Profiling, Assessment and their Association with Job Performance in Non-Teaching and Administrative Staff of a Public Sector University.	Ms Tahira Mubashir

• **Publications**

- List of the Papers published by the Faculty Members of the Department is as under:

Sr. No.	Papers Published	Name of Author
1.	Kausar R., Awan B. & Khan N. (2013) Differences in Risk Perception and Emotional Distress in Patients with Type 2 Diabetes. <i>Journal of the Indian Academy of Applied Psychology (JIAAP)</i> . X Category, ISSN: 0019-4247. Vol. 39, No.2, 222-227.	Prof. Dr. Rukhsana Kausar
2.	Kausar R., & Faiza R. (2013). Inclination Towards Religion and Post-Traumatic Growth Post Cancer Onset. <i>Indian Journal of Psychology, Special Issue: Contributions of Women Researchers</i> . ISSN-0019-5553.	Prof. Dr. Rukhsana Kausar
3.	Antonio Lasalvia, Silvia Zoppei, Tine Van Bortel, Chiara Bonetto, Doriana Cristofalo, Kristian Wahbeck and all the ASPEN/INDIGO Study Group Prof. Dr. Rukhsana Kausar, (2012). Global pattern of experienced and anticipated discrimination reported by people with major depressive disorder: a cross-sectional survey (www.thelancet.com Published online) October 18, 2012 http://dx.doi.org/10.1016/S0140-6736(12)61379-8 .	Prof. Dr. Rukhsana Kausar
4.	Kausar R., Khan N., Rasool F., Yusuf S., & Spielberger C. D. (2012) Translation and Adaptation of State Trait Anxiety Inventory (STAI-Y) in Urdu. <i>Journal of Behavioural Sciences</i> . X Category, ISSN: 1028-9097. Vol. 22, No. 3, 132-146	Prof. Dr. Rukhsana Kausar
5.	Naz F., & Kausar R. (2012). Parental Rejection and Childhood Abuse in Adolescents with Somatoform Disorders. <i>Journal of Behavioural Sciences</i> . X Category, ISSN: 1028-9097. Vol. 22, No. 2, 67-82.	Prof. Dr. Rukhsana Kausar
6.	Naz F., & Kausar R. (2012). Parental Acceptance Rejection and Comorbid Disorders in Adolescents with Somatization Disorder. <i>Journal of Behavioural Sciences, Special Issue on Parental Acceptance Research in Pakistan</i> . X Category, ISSN: 1028-9097. Vol. 22, No. 1, 125-142.	Prof. Dr. Rukhsana Kausar
7.	Najam N., & Kausar R. (2012). Father Acceptance Rejection, Father Involvement, and Socio-Emotional Adjustment of Adolescents. <i>Journal of Behavioural Sciences, Special Issue on Parental Acceptance Rejection Research in Pakistan</i> . X Category, ISSN: 1028-9097. Vol. 22, No. 1, 1-22	Prof. Dr. Rukhsana Kausar
8.	Khan, N., Kausar, R & Choudhry (2012), H. R. Demographic Characteristics and Implications of Dhat Syndrome in Pakistan. <i>Indian Journal of Clinical Psychology</i> , 38 (1), 69-78. Y Category. ISSN: 0303-2582.	Prof. Dr. Rukhsana Kausar
9.	Rafique, R., & Amjad, N. (2012). Correlates of Posttraumatic Growth in Patients Diagnosed with Coronary Heart Disease Pakistan <i>Journal of Social & Clinical Psychology</i> , 2012.12(2)	Dr. Rafia Rafique



Sr. No.	Papers Published	Name of Author
10.	Rafique, R., & Amjad, N. (2012). Psychosocial Factors as Predictors of Early Onset Ischemic Heart Disease in a Sample of Pakistani Women. <i>International Journal of Research Studies in Psychology</i> , 1(2), 3-10. X Print ISSN: 2243-7681 Online ISSN: 2243-769X Doi: 10.5861/ijrsp.2012.v1i2.62.	Dr. Rafia Rafique
11.	Kathleen, A., & Rafique, R. (2012). Psychological well-being, Quality of life and Coping strategies in Patients with Cardiac diseases. <i>Asian heart journal</i> , 20, 45-52. Retrieved from http://www.aseanheartjournal.org .	Dr. Rafia Rafique
12.	Rafique, R., Amjad, N. (2012) Psychosocial and Behavioral Factors of Cardiovascular Disease: Current Status and Future Directions for Pakistan. <i>Pakistan Journal of Psychology</i> , 2012.43 (2).	Dr. Rafia Rafique
13.	Rafique, R., Amjad, N. (2012). Ischemic Heart Disease in Pakistani Women: A Case Control Study. <i>Journal of Asian Health</i> , 1(2).	Dr. Rafia Rafique
14.	Rafique, R., Amjad, N. (2012) Dietary predictors of early-onset ischemic heart disease in a sample drawn from a Pakistani population. <i>Heart Asia</i> , 4:129-134 doi:10.1136/heartasia-2011-010090	Dr. Rafia Rafique
15.	Quality of Life among Renal Transplant Recipients in Pakistan (scientific monograph) (International publication by VDM publishers, available at www.amazon.com)	Dr. Fatima Kamran
16.	Season of Birth and Schizophrenia (scientific monograph) (International publication by VDM publishers available at www.amazon.com)	Dr. Fatima Kamran
17.	Living with a Kidney Transplant (scientific monograph) (International publication by VDM publishers, available at www.amazon.com)	Dr. Fatima Kamran
18.	Kamran, F. 2012. Depression among Renal Transplant Recipients in Pakistan, <i>Journal of Behavioral Sciences</i> , 22(2), 54-66.	Dr. Fatima Kamran
19.	Kamran, F. 2012. Psychosocial vs. Clinical Factors influencing Quality of Life among Renal Transplant Recipients, <i>International Journal of Research Studies in Psychology</i> , 2(1), 79-95	Dr. Fatima Kamran
20.	Kamran, F. 2012. Demographic Predictors of Depression influencing Quality of Life among Renal Transplant Recipients. <i>International Journal of Research Studies in Psychology</i> , 2(2). 43-60	Dr. Fatima Kamran
21.	Zafar, N., & Mubashir, T. (2012). Emotional Distress and Coping Strategies in University Students after the Death of Parental Figure, <i>Journal of Behavioral Sciences</i> , 22(3), 91-103.	Ms Tahira Mubashir
22.	Wajahat, A., Kanwal, A., Ullah, A., A., Ishaq, m., Tufail, S., Javed, Z., & Mubashir, T. (2012). Effect of positive and negative mood on learning in Elementary students. Conference Proceedings, 2 nd Post graduate students conference 2012 on Education in Pakistan, Trends of 21 st century, Institute of Education and research, University of the Punjab, Lahore.	Ms Tahira Mubashir
23.	Mubashir, T. (2013). Justice Perceptions, Organizational Commitment and Citizenship Behavior of National and Multinational Companies, In McCarthy, S., Jaafar, J., Kamal, A., & Zubair, A. (EDs). <i>Psychology at Work in Asia</i> , (pp. 149-169). Cambridge Scholars. Publishing.	Ms Tahira Mubashir



- **Conferences, Seminars & Workshops etc.**

Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
1.	Kausar, R., Naz, A. & Nashee, Q. (2013). Body Image, Social Support and Self-esteem in Post Mastectomy Breast Cancer Patients. 27 th Conference of the European Health Psychology Society (EHPS) 2013 16 th – 20 th July, 2013 at Bordeaux, France.	Prof. Dr. Rukhsana Kausar
2.	Kausar, R. & Tariq M. (2013). Assessment of Well-being and Ill-being in Pakistan. 27 th Conference of the European Health Psychology Society (EHPS) 2013 16 th – 20 th July, 2013 at Bordeaux, France	Prof. Dr. Rukhsana Kausar & Omama Tariq
3.	Naz, F., & Kausar, R. (2013) Parental Rejection, Personality Maladjustment, and Depression in Female Adolescents in the Pakistani Context. ISIPAR, India on 13 th January, 2013	Prof. Dr. Rukhsana Kausar
4.	Malik, F., Kausar, R. & Butt, M. (2013) Parental Acceptance and Power/Prestige as Predictors of Psychological Adjustment among Pakistani Adolescents. ISIPAR, India on 10 th January, 2013	Prof. Dr. Rukhsana Kausar
5.	Naz, F., & Kausar, R. (2012). Childhood abuse and Depressive Symptoms in Adolescents with Conversion Disorder. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
6.	Kausar, R., Tariq, S., & Khalid, M. (2012). Gender Disparity and Achievement Gaps in Higher Education in Pakistan. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
7.	Saleem, F., & Kausar, R. (2012). Computer Use, Social Interaction and Academic Performance of Pakistani Adolescents. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012	Prof. Dr. Rukhsana Kausar
8.	Zaidi, G., Zafar, N., Huda, N., Zubair, R., & Kausar, R. (2012). Quality of life and Adjustment of Patients with Type II Diabetes with Amputation and without Amputation. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
9.	Batool, S., & Kausar, R. (2012). Health Related Behaviors and Medication Adherence in Patients with Hepatitis C. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
10.	Batool, S., Naqvi, G., Javed, A., Tufail, H., & Kausar, R. (2012). Menopausal Attitude and Symptoms among Working Women. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
11.	Qureshi, A., Liaqat, F., Hassan, H., Ashraf, N., Javed, Z., & Kausar, R. (2012). Coping Strategies And Marital Adjustment Of Wives Of The Patients With Ischemic Heart Disease. International Conference of	Prof. Dr. Rukhsana Kausar



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	
12.	Ijaz, A., & Nashi, Q. (2012). Social Support, Body Image And Self Esteem In Post Mastectomy Brest Cancer Patients. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
13.	Zahra, A., & Kausar, R. (2012). Acute Stress Disorder Symptoms, Anxiety and Extent of Information Among Patients Suffering From Dengue Fever. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
14.	Wahid, S., & Kausar, R. (2012). Acute Stress Disorder, Symptoms Severity and Satisfaction with Treatment in Dengue Fever Patients in Relation to Empathy and Altruism in Paramedics. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
15.	Naz, S., & Kausar, R. (2012). Psychological Impact of Dissemination of Dengue Related Information Through Media on Dengue Patients and General Population. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
16.	Mukhtar, B., & Kausar, R. (2012). Symptom Severity and Self-Efficacy of Dengue Patients Receiving Psycho-education and those who Did Not Receive Psycho-education: A Case Control Study. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
17.	Bibi, A., & Kausar, R. (2012). Level of Awareness and Precautionary Practices Regarding Dengue Fever among Nomads. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012	Prof. Dr. Rukhsana Kausar
18.	Waris, B., & Kausar, R. (2012). Psychological Distress and Quality of Life of Dengue Fever Survivors. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
19.	Anwar, S., & Kausar, R. Level of Information And Precautionary Practices Among Dengue Survivors And Non-Affected Individuals: A Case Control Study. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Prof. Dr. Rukhsana Kausar
20.	Amjad, A., & Bukhari, Z., Mothers' story telling and Children vocabulary. International Conference of Applied Psychology, University of Punjab, 15 -19 December, 2012.	Dr. Naumana Amjad
21.	Conducted One day workshop on statistical analysis in center of Clinical Psychology, PU, Lahore (March 7, 2012)	Dr. Iram Fatima
22.	Extension Lecture on ethical standards in research in center of clinical psychology, PU, Lahore. (May 16, 2012).	Dr. Iram Fatima



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
23.	Conducted One day workshop on regression analysis in Lahore college for women University, Lahore (May 18, 2012)	Dr. Iram Fatima
24.	Conducted One day workshop on Moderation through regression analysis in GCU Lahore (March 6, 2013)	Dr. Iram Fatima
25.	Zafar, N., & Khalid, S., (2012). Poster Presentation on “Psychological symptoms and extent of information in patients suffering from dengue fever”. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.	Ms Shazia Khalid
26.	Rafique., R. 11 th Muslim Psychology Conference (May 10 th 2013) at Fountain House Lahore. Organized by the Society for the Advancement of Muslim Psychology	Dr. Rafia Rafique
27.	Attended International Seminar on Psychology of Trauma: Women and Children in Violent Conflict (March 13-14, 2013). Organized by Department of Psychology Jamia Millia Islamia, New Delhi-110025, India	Dr. Rafia Rafique
28.	Presented at the International Multidisciplinary Conference on Ethics, Spirituality and Freedom (18 th – 19 th Feb, 2013) at Govt. Fatima Jinnah College for Women, Chuna Mandi, Lahore	Dr. Rafia Rafique
29.	Presented at 3rd International Conference on Business Management (27 th -28 th February, 2013) at UMT, organized by School of Business and Economics.	Dr. Rafia Rafique
30.	Attended a Workshop on Chronbach Alpha by Dr Dutta Roy at Center for Clinical Psychology University of the Punjab, 19 th December, 2012.(Moderated)	Dr. Rafia Rafique
31.	Attended One day Seminar on Assistive Technology for Persons with Disabilities. (15 th October, 2012). Organized by University of Management and Technology.	Dr. Rafia Rafique
32.	Moderated and Presented at The International Conference of Applied Psychology (ICAPP). Psychology and Challenges of the Modern World (15 th -19 th December, 2012).	Dr. Rafia Rafique
33.	Ghazal, S., & Cokely, E.T. (2012, November). Beyond Risk Literacy: Using The Berlin Numeracy Test to Predict Judgments, Decisions, Choices, Metacognition, and Information Search. Poster Presented at the 33 rd Annual Conference of the Society for Judgment and Decision-Making, Minneapolis,	Ms Saima Ghazal
34.	Garcia-Retamero, R., Ghazal, S., & Cokely, E.T. (2012, November). Comparing Risk Literacy in 28 Countries: New Results from Berlin Numeracy Test.Poster Presented at the 33 rd Annual Conference of the Society for Judgment and Decision-Making, Minneapolis, MN.	Ms Saima Ghazal
35.	Attended a two day workshop on “motivational interviewing” organized by Centre for Clinical Psychology, University of the Punjab, 18 th —19 th March, 2013.	Ms Omama Tariq



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
36.	Attended international Conference on “Psychology and Challenges of the Modern World” organized by Department of Applied Psychology, University of the Punjab. 17-18 th December, 2012	Ms Omama Tariq
37.	Moderator in session of psychosexual issues at International conference of applied psychology (ICAPP-2012), University of the Punjab, Lahore on 18 December, 2012	Ms Omama Tariq
38.	Completed workshop on hypnosis conducted by Mr. Maqbool babri US certified Hypnotist on Pre-conference workshop at International Conference Of Applied Psychology, University of the Punjab, Lahore, 15 th December 2012	Ms Omama Tariq
39.	One day workshop on “Designing Qualitative research” by Dr Urusa Fahim, California, USA, organized by Centre For Clinical Psychology, University of the Punjab. 13 th December, 2012	Ms Omama Tariq
40.	Attended training in the Trauma Buster Technique for Post traumatic Stress illumination, by Rehana Webster, EFT Master, September 2012 at Sahil Organization.	Ms Omama Tariq
41.	Paper presented on Parental Bonding and Current Thought Processing in Relation to Physical and Emotional Abuse by Ms. Arooj Arshad and Ms. Omama Tariq on at International conference of Applied Psychology (ICAPP-2012), University of the Punjab, Lahore on 15-19 December, 2012	Ms Omama Tariq
42.	Poster presentation on Psychological Distress Influencing Quality of Life of Women during Menopause by Ms. Farhana Nasim and Ms. Omama Tariq on at International conference of Applied Psychology (ICAPP-2012), 15-19 December, 2012	Ms Omama Tariq
43.	Mubashir, T. (2012) Organizational Justice Perceptions, Organizational Commitment and Citizenship Behavior in employees of public and private sector banks. International Conference on Industrial and Organizational Psychology: Trends, Challenges, and Applications. National Institute of Psychology Quaid-i-Azam University, Islamabad, Pakistan.	Ms Tahira Mubashir
44.	Wajahat, A., Kanwal, A., Ullah, A., A., Ishaq, m., Tufail, S., Javed, Z., & Mubashir, T. (2012). Effects of positive and negative mood on learning in Elementary students. 2 nd Post graduate students conference 2012 on Education in Pakistan, Trends of 21 st century, Institute of Education and research, University of the Punjab, Lahore	Ms Tahira Mubashir
45.	Aziz, H. & Mubashir, T. (2012) Self-perception and perceptions about female managers in male dominated industries of Pakistan. International Conference of Applied Psychology (ICAPP) on “Psychology and Challenges of the Modern World”. Department of Applied Psychology, University of the Punjab. Lahore Pakistan	Ms Tahira Mubashir
46.	Khan, S. & Mubashir, T. (2012) Anger, Emotional Distress and Suicidal Ideation in University Students with Mild Psychological Problems.	Ms Tahira Mubashir



Sr. No.	Name of Conference/Seminar/Workshop	Name of Faculty Member
	International Conference of Applied Psychology (ICAPP) on "Psychology and Challenges of the Modern World". Department of Applied Psychology, University of the Punjab. Lahore Pakistan	
47.	Mubeen, B. & Mubashir, T. (2012) Parenting styles, Self Discipline and Social Competence in College Students. International Conference of Applied Psychology (ICAPP) on "Psychology and Challenges of the Modern World". Department of Applied Psychology, University of the Punjab. Lahore Pakistan.	Ms Tahira Mubashir
48.	Moderated Scientific Session on Personality Psychology, International Conference of Applied Psychology 15-19 December, 2012, Department of Applied Psychology, University of the Punjab, Lahore.	Mr. Faiz Younas
49.	Participated in Post-Conference Workshop on 'Success and Achievement' International Conference of Applied Psychology 15-19 December, 2012, Department of Applied Psychology, University of the Punjab, Lahore.	Mr. Faiz Younas

- **Research Journals**

- The Institute publishes its official journal "Journal of Behavioral Sciences (JBS)" on biannual basis since 1990. JBS has blind peer review policy and is an internationally recognized journal which includes empirical studies, review articles and case studies from a wide range of topics. Higher Education Commission (HEC) of Pakistan has placed JBS in 'X' category. It has been indexed and cited in different well-known data bases like Ebsco Host, Pro Quest, Asianet and Universal Digital Library (UDL), which is a Malaysian based on-line library.
- Moreover, publishing of "Psychological Abstracts" is another distinguished feature of Institute. It includes abstracts of research work carried out by students and faculty members of the Institute.

RESEARCH COLLABORATION

- **Indigenous**

- Prof. Rukhsana Kausar, Collaborative project on Cognitive and Neurological Functioning of Elderly: A comparison of Punjab and Gilgit Baltistan with Prof. Najma Najam, Vice Chancellor, Karakoram International University.
- Prof. Rukhsana Kausar, Collaborative project on "Parental Power/Prestige and the Effects of Paternal Versus Maternal Acceptance on the Psychological Adjustment of Offspring with Prof. Najma Najam, Vice Chancellor, Karakoram International University.
- Prof. Rukhsana Kausar, Collaborative project on "Parental Power/Prestige and the Effects of Paternal Versus Maternal Acceptance on the Psychological Adjustment of Offspring with Dr. Farah Malik, Government College University, Lahore.



- **Foreign Linkages**

- Prof. Dr. Rukhsana Kausar is member Research Consortium as Collaborating Partners on "Global Climate Change and Health Security: Concepts, Methodology and Burden of Disease Assessment for Asia" with Prof. Dr. Alexander Krämer, Dr. MMH Khan, Heiko Jahn, Belfield University, Germany.
- Dr. Rukhsana Kausar conducted collaborative INDIGO-Depression Project on Stigmatization of patients with psychiatric disorders, with Prof. Graham Tornicroft and Dr. Tine Van Bortel, Institute of Psychiatry, King's College London.
- Prof. Dr. Rukhsana Kausar, Collaborated in "Emotion and Education Study, with Sana Sheikh, School of Psychology and Neuroscience, University of St. Andrews, Scotland, United Kingdom
- Prof. Dr. Rukhsana Kausar, Collaboration on cross cultural research project on Globalization and its Impact on Young People for Using Drugs with Fariba Mousavi Stockholm University, Goteborg University and Gavle University.
- Prof. Dr. Rukhsana Kausar, Collaboration on a cross cultural Project on Parental Power/Prestige and the Effects of Paternal Versus Maternal Acceptance on the Psychological Adjustment of Offspring with Ronald P. Rohner, Ph.D, Professor, Human Development and Family Studies, Unit 2058, University of Connecticut, USA

- **Funding Grants for R&D**

- Every year; a huge amount is being spent on Research and Development (R&D). These funds are provided by the University of the Punjab, Lahore and Higher Education Commission (HEC).

INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY

- **Research & Development – An Overview**

- The faculty of IBB enthusiastically pursuing research projects of national interests mainly concerning immunodiagnosis of viral and bacterial infections; purification and applications of industrially important enzymes; characterization of antifungal proteins of plant origin, identification of biomarkers for early diagnosis of cancer, extraction of bio pesticides from plants and molecular basis of action of these compounds, production of monoclonal antibodies, peptide hormones, interferon's and cytokines, screening of genetic disorders in local population and nanotechnology-based detection of allergens in local environment. During the year 2012-13, the Institute had several publications to its credit. In particular, many research papers were published in international impact factor journals and the research findings were presented at the national and international forum. A highly competitive research grant of US\$ 12,000 was also awarded to one of the faculty member. The faculty members also received research grants, to strengthen the research activities of the Institute.



- Projects (i) Completed

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Mahjabeen Saleem University of the Punjab	Potential of bacterial strains for bioremediation of pulp and paper industry effluents	Rs. 0.15 Million	To check the ability of biological treatment process for decolourization of industrial effluents
Dr. Amtul Jamil Sami University of the Punjab	Human eye lens of Local population.	Rs. 0.15 Million	
Dr. Saba Irshad University of the Punjab	Characterization of BCR-ABL in CML patients of Pakistan	Rs. 0.15 Million	To characterize all possible BCR-ABL Fusion Transcripts by using RT PCR To check frequency of those fusion transcript in CML patients of Pakistan To check the presence of a typical fusion transcripts other than b2a2, b3a2, in CML patients of Pakistan
Dr. Zahoor Qadir Samra University of the Punjab	Surface Layer Proteins as Nano carrier for Therapy and Diagnosis Duration: 1 Year	Rs. 0.125 Million	Isolation and characterization of S-layer protein from bacteria Identification by gold- conjugated antibody and microscopy Conjugation of anti-cancer drug with S-layer protein.
Ms. Mamoon Naz University of the Punjab	Identification of a high risk haplotype for the <i>dystrobrevin binding protei-1 (DTNBP-1)</i> gene and <i>interleukin-12B</i> in schizophrenia as genetic markers Duration: 1 Year	Rs. 0.125 Million	Role of diagnostic strategy in treatment of schizophrenia
Ms. Iram Gull University of the Punjab	Determination of uric acid levels by uric acid test strips Duration: 1 Year	Rs 0.125 Million	To develop easy to use enzyme based colorimetric test strips for the qualitative and semi- quantitative determination of uric acid in human whole blood, serum and urine samples. Development of low cost disposable paper based uric acid test strips.



Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Mr. M. Shahbaz Aslam University of the Punjab	Delignification of Wood Pulp by Recombinant Laccases Duration: 1 Year	Rs. 0.125 Million	Replacing conventional and polluting chlorine based delignification procedures by enzyme based methods. Providing milder and cleaner strategy for pre-treatments of wood pulp with lignolytic enzymes.
Ms. Afshan Iqbal University of The Punjab	Isolation, Characterization and immobilization of extracellular alpha amylase from mutant <i>Bacillus Subtilis</i> Duration: 1 Year	Rs. 0.125 Million	Development of mutant <i>Bacillus subtilis</i> Enzyme estimation Purification and characterization of the enzyme Enzyme Immobilization Immobilized enzyme assay
Ms. Beenish Kashif Hashmi University of the Punjab, Lahore.	Studies on antioxidant enzyme activities at different ripening stages of fruits and vegetables. Duration: 1 Year	Rs. 0.125 Million	Sampling of plant material (available fruits and vegetables) Preparation of enzyme extract Estimation of total protein content Estimation of antioxidant enzyme activity Isolation and purification of the highest activity antioxidant enzyme Characterization of the purified antioxidant enzyme

- **Projects (ii) Newly Launched**

Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Mahjabeen Saleem University of the Punjab	Influence of Apolipoprotein E4 (ApoE) and Leptin Gene Variations on Hypertension.	Rs.0.150 Million	To study the effect of ApoE4 and leptin on blood pressure To study the development of methods for the prevention, prediction and therapy for hypertension
Dr. Amtul Jamil Sami HEC	Molecular Basis of Action of Neem (<i>Azadirachta Indica</i>) derived compounds as Bio- pesticides.	Rs. 2.262 Million	



Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Dr. Amtul Jamil Sami University of the Punjab	Biochemical basis of inhibition of digestive amylase of coleopteran insects and human by <i>Azadirachta indica</i> .	Rs.0.150 Million	
Dr. Saima Sadaf PAS	Production of recombinant cytokine of therapeutic importance	Rs.1.98 Million	Production of granulocyte colony stimulating factor for neutropenia treatment
Dr. Saima Sadaf University of the Punjab	Implementing MicroRNAs in the Diagnosis of Acute Myocardial Infarction	Rs.0.150 Million	
Dr. Saba Irshad University of the Punjab	Mutational Analysis of DNMT3A Gene in Pakistani Patients with Acute Myeloid Leukemia (AML)	Rs.0.150 Million	
Dr. Moazzam Ali University of the Punjab	Investigation of endocytic role of human small GTPase Rab28	Rs.0.150 Million	To study the function of human Rab28 and localization Study of effects on cell functioning upon its knockdown
Ms. Mamoona Naz University of the Punjab	Genetic susceptibility and identification of potential role of Vitamin D biomarkers for diagnosis and prognosis of Arthritis in Pakistani Population	Rs.0.125 Million	To study functional significances of polymorphic variations of VDR gene in Arthritis To find out association possibility between variability in vitamin D endocrine system and in assessment of disease risk
Mr. M. Shahbaz Aslam	Recombinant production of consensus envelop domain III protein of Dengue Virus; A Candidate Tetravalent Dengue Vaccine.	Rs.0.125 Million	Expression and purification of recombinant Consensus Envelop Domain III-based tetravalent antigen Characterization of recombinant tetravalent antigen Determination of immunogenicity of recombinant consensus envelop domain III-based tetravalent antigen



Name of researcher/ sponsoring agency	Title of research project with duration	Financial support	Main goals (proposed/achieved)
Ms. Irma Gull University of the Punjab	Heterologous expression of phytase in plants.	Rs.0.125 Million	
Mrs. Afshan Iqbal University of the Punjab	Genetic studies of genes involved in bioremediation in microbes	Rs.0.125 Million	
Mrs. Beenish Kashif Hashmi University of the Punjab	Isolation and production of antineoplastic enzyme producing microbes from soil samples	Rs.0.125 Million	
Ms. Ferhana Hussain University of the Punjab	Optimization and Molecular characterization of Bacterial Isolates from oil contaminated soil samples.	Rs.0.125 Million	

- Publications**

Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Prof. Dr. M. Amin Athar	Heterologous expression, immunochemical and computational analysis of recombinant human interferon alpha 2b	SpringerPlus	2:264	
Hafsa Aziz, Abida Raza, Shahnaz Murtaza, Yasir Waheed, Ali Khalid, Javaid Irfan, Zahoor Samra, Muhammad Amin Athar	Molecular epidemiology of hepatitis C virus genotypes in different geographical regions of Punjab Province in Pakistan and a phylogenetic analysis	International Journal of Infectious Diseases	17 (4)	2.173
Mahjabeen Saleem, Nusrat Yasmin	Biochemical characterization of fruit-specific pathogenesis- related antifungal protein from basari banana	Microbiological Research	DOI: 10.1016/j.m icres.2013.0 8.010	2.3
Mahjabeen Saleem, Sumaira Ahmad, Mubashir Ahmad	Potential of Bacillus cereus for bioremediation of pulp and paper industry wastes	Annals of Microbiology	DOI: 10.1007/s13 213-013- 0721-y	1.55
Mahjabeen Saleem, Mamoona Naz, Asma Waris, Bushra Muneer and Rukhshan Khurshid.	Screening of Pneumococcal Pneumonia by Amplification of Pneumolysin Gene In Children Visiting Hospitals in Lahore, Pakistan	Iranian Journal of Pediatrics	22, 524-530	0.258
Mahjabeen Saleem, Ikram Z, Rukhshan Khurshid.	Creatinine clearance: an early detection of chronic renal failure in suspected patients,	Arch. des. Sci,	65, (10):490- 496.	0.536



Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Mahjabeen Saleem, Burarah Arooj, Sameen Ahmed, , Rukhshan Khurshid, Muddasar Zia	Serum trace elements in diagnosis of breast malignancy	J Ayub Med Coll Abbottabad	24(2)	
Mahjabeen Saleem' Asima Ayyub, Komal Ashra	Apolipoprotein-A1 as lung cancer serum protein biomarker detected by proteomic strategies	Pak. J. Biochem. Mol. Bio.	46 (1), 30-36.	
Mahjabeen Saleem, Nusrat Yasmin	Purification and characterization of pathogenesis related antifungal Beta-1,3 glucanase from Basari banana fruit.	Pak .J. Biochem. Mol. Bio.	45 (4), 201-205.	
Dr. Amtul Jamil Sami	A simple method for the isolation and cloning of genomic DNA from dried bone tissues of Indus river dolphin Platanista minor	Annals of Biological Research	3	
Dr. Amtul Jamil Sami (Co-authors) AR Shakoori	Potential of Azadirachtin and neem (Azadirachta indica) based saponins of invitro insect pest cellulose inhibition and invivo repellency on Tribolium castenum	Journal of medicinal Plant research		0.68
Dr. Amtul Jamil Sami	Digestive Cellulose hydrolyzing activity (endo- β -1, 4- D-glucanase) in the gut and salivary glands of Blister beetles Mylabris pustulata	Pakistan Journal of Zoology	43 393-401.	0.20
Dr. Amtul Jamil Sami	Inhibition of cellulase activity and growth retardation of associated bacterial strains from Aulacophora foveicollis; a green insect pest by two glycosylated flavonoids, isolated from Mangifera indica leaves" (2011)	Journal of Medicinal Plant Research	18 184-190	0.565
Dr. Amtul Jamil Sami	Gene study within the 5' flanking regions of growth hormone gene of first exon in Bos indicus	African Journal of Biotechnology	10 332-336	0.533
Saima Sadaf, M. Waheed Akhtar and Zariana Iqbal	Uncertainty over pharmaceutical and biotech product patents in Pakistan.	Nature Biotechnology	30, 1198-1200	23.268



Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Dr. Saima Sadaf, (Co-authors) Shaista Bashir, M.Waheed Akhtar	Enhanced production and refolding of human leptin expressed in Escherichia coli	Pakistan journal of Biochemistry and Biotechnology (PJBMB)	45(i)	
Zahoor Qadir Samra, Snober Ahmad, Mehwish Javeid, Nadia Dar, Muhammad Shahbaz Aslam, Iram Gull, and Mubashar Mustaneer Ahmad	Anticancer medicines (doxorubicin and methotrexate) conjugated with magnetic nanoparticles for targeting drug delivery through iron	Preparative Biochem. Biotech.	43:781-797	0.47
Zahoor Qadir Samra, Nadia Dar, Mehwish Javed	Immunochemical and PCR analysis of Staphylococcus aureus enterotoxin B (SEB) in milk and fruit juices collected in Lahore city, Pakistan	Arch Biol Sci.	65 (3), 1113-1121	0.36
Dr. Zahoor Qadir Samra, (Co-authors) Nadia Dar, M. Amin Athar	Biocatalytic activity of recombinant human β Mannosidase immobilized onto magnetic nanoparticles for bioprocess.	Preparative Biochem. Biotech.	49, 97-112	0.466
Yasir Sharif, Saba Irshad	Animal Models for human genetic diseases. (IF: 0.57)	African Journal of Biotechnology	11(86), 15200-15205	0.57
Saba Irshad, Butt MA, Joyia A.	Frequency of different Bcr-abl Fusion Transcripts in CML Patients in Pakistan	International Journal for Agro Veterinary and Medical Sciences	6(6): 418-423	
Dr. Saba Irshad, (Co-authors) Rabiya Nawab	A Molecular Genetic Study of Autosomal Recessive Primary Microcephaly in three Pakistani Kindred	Basic Sciences of Medicine	1(3)	
Nazir Z, Saba Irshad,	Stem Cell Based Gene Therapy	Biopolymers and Cell	29(1): 33-41.	0.355
Moazzam Ali and Field, M.C.	Cell density-dependent ectopic expression in bloodstream form Trypanosoma brucei	Experimental Parasitology	134, 249-255	2.12
Anjum Riaz, Ilan N, Vlodavsky I, Johansson S	Characterization of Heparanase-Induced Phosphatidylinositol 3-kinase-Akt Activation and Its Integrin Dependence	Journal of Biological Chemistry	288: 12366-12375	4.77
Zeller KS, Anjum Riaz, Sarve H, Li J, Tengholm A, Johansson S	The Role of Mechanical Force and ROS in Integrin-Dependent Signals	PLoS ONE	8(5): e64897	4.09



Name of Faculty Members	Title of Research Papers	Name of Publishing Journal	Vol.	Impact Factor
Siddiqui R. Mujtaba N and Mamoon Naz	Incidence of Y chromosome microdeletions in Pakistani infertile men	Iranian Journal of reproductive Medicines	Code. 91.31	0.275
Mamoon Naz, Siddiqui R and Naz F	MTHFR C667T polymorphism association with male infertility risk in Pakistan	Pak. J. Biochem. Mol. Biol.	211-216	
Iram Gull, (Co-authors) M. Shahbaz Aslam Zahoor Qadir Samra, M. Amin Athar	Inhibitory effect of Allium sativum and Zingiber officinale extracts on clinically important drug resistant pathogenic bacteria.	Annals of clinical Microbiology and Antimicrobials	11	1.7 (unofficial)
Iram Gull, Zahoor Qadir Samra, Muhammad Shahbaz Aslam and Muhammad Amin Athar	Heterologous expression, immunochemical and computational analysis of recombinant human interferon alpha 2b	SpringerPlus,	2:264	
Iram Gull, (Co-authors) Aamir Ali, Abdul Majid, Asif Saleem, Namia Huma Naveed and Shagufta Naz	In vitro conservation and production of vigorous and desiccation tolerant synthetic seeds in Stevia rebaudiana.	Journal of medicinal plant research	6	0.879
Afshan Iqbal, Mamoon Naz, Ferhana Hussain, Mahjabeen Saleem and Beenish Kashif Hashmi	Association of SOD2 gene polymorphism with noise induced hearing loss in textile industry employees	African Journal of Biochemistry Research	7 (7), 122-127	
Sumaira Pervaiz, Tayyaba Shaheen, Shumaila Shaheen, Nadia Dar and Zahoor Qadir Samra	Purification, characterization and preparation immunomatrixes of S-layer proteins of Thermobifida fusca	J Appl Micro,	115, 735-743	2.1
Sumaira Pervaiz and Saba Irshad,	Neurological Diseases and Stem Cells	IJAVMS	6: 398-412	
Bariza Malik, N. Rashid, N. Ahmad, M. Akhtar	Escherichia coli signal peptidase recognizes and cleaves the signal sequence of α -amylase originating from Bacillus licheniformis,	Biochemistry (Moscow)	78 (8): 1215-1221	1.06

• **Conferences, Seminars & Workshops etc.**

- Dr. Saba Irshad: Participation in 33rd Pakistan congress of Zoology (International), Convention Center, Islamabad, 2-4th April, 2013.
- Dr. Saba Irshad: Paper presentation in International conference on Application of Molecular Biology in Medicine and Agriculture, 20th-22nd August, 2013.



- Dr. Saba Irshad: Participation in International workshop on Bioinformatics Tools in Structural Biology, August 26-28, 2013, PCMD, Karachi.
- Ms. Iram Gull attended a symposium: Recombinant Enzymes for Local Industry of Pakistan, held on September 25, 2013, organized by Institute of Biochemistry & Biotechnology, University of Veterinary and Animal Science, Lahore, Pakistan.
- Ms. Iram Gull participated in Faculty Orientation Program held on 2nd to 5th July 2013 organized by Institute of Administrative Sciences, University of the Punjab, Lahore, Pakistan.
- Mr. Shahbaz Aslam participated in Faculty Orientation Program held on 2nd to 5th July 2013 organized by Institute of Administrative Sciences, University of the Punjab, Lahore, Pakistan.
- Ms. Beenish Kashif Hashmi attended "Faculty orientation program 2013" organized by Institute of Administrative Sciences, Punjab University, Lahore.
- Ms. Afshan Iqbal attended "Faculty orientation program 2013" organized by Institute of Administrative Sciences, Punjab University, Lahore.

RESEARCH COLLABORATION

- **Indigenous**

- A collaborative research project of Dr. Saima SADF and Prof. M. Waheed Akhtar School of Biological Sciences "Production of recombinant cytokine of therapeutic importance." funded by Pakistan Academy of Sciences Rs. 1.982 Million (2010-2013)
- A collaborative research project of Dr. Saima SADF and Prof. M. Waheed Akhtar School of Biological Sciences "Free circulating molecular markers for cancer diagnosis and prognosis" funded by Higher Education Commission, Government of Pakistan Rs. 4.197 Million (2010-13)

SCHOOL OF BIOLOGICAL SCIENCES

- **Research & Development – An Overview**

- The School of Biological Sciences, now in the 11th year of its existence, has made tremendous progress not only in terms of establishing and developing first rate infrastructure in the fields of Molecular Biology, Enzymology and Protein Chemistry, but also making significant advancement in various research projects initiated by the students for their Ph.D. degrees. All these research projects fall under the category of hard core science trying to unravel vital biological processes with strongly implicating extrapolations towards providing solutions to various economic problems of the country.

- **Projects (i) Completed**

Sr. No.	Name of Researcher/ Sponsoring Agency	Title of research project with duration	Financial support	Main goals
1.	Prof. Dr. Javed Iqbal/ Pak-US Collaborations	Enhance the sugarcane production in Pakistan by Modern Breeding Technology	US\$.71610.00	Completed



• **Projects (ii) Newly Launched (in progress)**

Sr. No.	Name of Researcher/ Sponsoring Agency	Title of research project with duration	Financial support	Main goals
1.	Prof. Dr. Javed Iqbal Higher Education Commission	Strengthening of the School of Biological Sciences	Rs. 377.328 million	Infrastructure development of SBS
2.	Prof. Dr. M. Waheed Akhtar Higher Education Commission Ministry of Sciences and Technology.	Production of Bioenergy from plant biomass (a collaborative project with major share of the School of Biological Sciences Lab.)	Rs. 260.329 Million (129.52 million Punjab University component share)	Develop biotechnology for the production of ethanol from plants biomass (under progress).
	Pakistan Academy of Sciences	Production of recombinant cytokine of therapeutic importance	Rs.1.982 million	
	Higher Education Commission	Free circulating molecular markers in cancer diagnosis of tuberculosis using amultiplex microbead immunoassay	Rs.4.198 million	
	EMRO (WHO) Switzerland	Validation study of a rapid and reliable diagnosis of tuberculosis using amultiplex microbead immunoassay.	US\$.12,729.27	
	Pak-US S&T Cooperation	Rapid detection of infection and drug resistance in tuberculosis patients by multiplex analysis	US\$.262,342.00	
	Govt. of Pakistan	Preparation and applications of growth hormone injectables (A component of the project "Strengthening of School of Biological Sciences")	Rs. ~50 mil. (total amount 377.328 mil)	
	Pakistan Academy of Sciences	Over-expression of therapeutic proteins in bacteria and yeast for applications	Rs. 1.982 mil	
	HEC, Pakistan	Free circulating molecular markers in cancer diagnosis and prognosis amongst different population groups.	Rs. 4.197 mil.	
	Pakistan-US Science and Technology Cooperation	Rapid detection of infection and drug resistance in	US\$ 231,441	



Sr. No.	Name of Researcher/ Sponsoring Agency	Title of research project with duration	Financial support	Main goals
	Program 2009	tuberculosis patients by multiplex analysis		
	HEC, Pakistan	Free circulating molecular markers in cancer diagnosis and prognosis amongst different population groups.	Rs. 4.197 mil.	
	Pakistan-US Science and Technology Cooperation Program 2009	Rapid detection of infection and drug resistance in tuberculosis patients by multiplex analysis	US\$ 231,441	
3.	Prof. Naeem Rashid Higher Education Commission of Pakistan	Discovering the missing phosphofructokinase in hyperthermophilic archaeon Pyrobaculum calidifontis	Rs. 5,962,000/-	
4.	Dr. Sadaf Naz Higher Education Commission of Pakistan	Molecular characterization of dystonia and wolfram syndrome in Pakistan (3 years)	Rs.4,198,896.00	
	Fogarty International Centre and National Institute on Deafness and other Communication Disorders, National Institute of Health, USA	Genetic basis of moderate to severe hearing loss in Pakistan.	\$.270,000.00	

- **Publications**

- Research Articles

- Gardner QA, Younas H, Akhtar M. 2013. Studies on the regioselectivity and kinetics of the action of trypsin on proinsulin and its derivatives using mass spectrometry. *Biochim Biophys Acta*. 1834: 182 - 190.
- Studies on the expression and processing of human proinsulin derivatives encoded by different DNA constructs Farheen Aslam, Qurra-tul Ann Afza Gardner, Hina Zain, Muhammad Shahid Nadeem, Muhammad Ali, Naeem Rashid, Muhammad Akhtar, *Biochim Biophys Acta*. 1834: (2013) 2116-2123.
- Muhammad Atif Nisar, Naeem Rashid, Qamar Bashir, Qurra-tul-Ann Afza Gardner, Muhammad Hassan Shafiq, Muhammad Akhtar. 2013. TK1299, a highly thermostable NAD(P)H oxidase from *Thermococcus kodakaraensis* exhibiting higher enzymatic activity with NADPH. *Journal of Bioscience and Bioengineering*. Volume 116, Issue 1, July 2013, Pages 39-44.



- Ali, W, Muhammad, K., Nadeem, M.S., Inamullah, Ahmad H. and Iqbal, J. 2013. Use of RAPD markers to characterize commercially grown rust resistant and susceptible cultivars of sugarcane (*Saccharum spp.*). *International Journal of Biosciences (IJB)*; vol. 3 (2): 115-121.
- Hameed, U., Pan, Y.B., Muhammad, K., Afghan, S. and Iqbal, J. 2012. Use of simple sequence repeat markers for DNA fingerprinting and diversity analysis of sugarcane (*Saccharum spp.*) cultivars resistant and susceptible to red rot. *Gen. and Mol. Res.* 11(2): 1195-1204.
- Khan, K.S., Iqbal, J. and Saeed, M. 2013. Comparative study of grain yield and biochemical traits of different rice varieties grown under saline and normal conditions. *J. Anim. Plant Sci.*: 23(2): 575-588.
- Muhammad, K., Afghan, A., Pan, Yong-Bao and Iqbal, J. 2013. Genetic variability among the brown rust resistant and susceptible genotypes of sugarcane by RAPD technique. *Pak. J. Botany* 45(1): 163-168.
- Ali, S., Khan, M.S. and Iqbal, J. 2012. In vitro direct plant regeneration from cultured young leaf segments of sugarcane (*Saccharum officinarum L.*) *J. Anim. Plant Sci.*: 22(4): 1107-1112.
- Afrasiab, H., and Iqbal, J. 2012. Biochemical and molecular characterization of somaclonal variants and induced mutants of potato (*Solanumtuberosum L.*) cv. Desire. *Pak. J. Botany.* 44(5): 1503-1508.
- Afrasiab, H; and Iqbal, J. 2012. Genetic analysis of somaclonal variants and induced mutants, of Potato (*SolanumTuberosum L.*) C.V. Diamant using RAPD Markers. *Pak. J. Bot;* 44(1):215-220.
- ZAHID, N., ZULFIQAR, S. AND SHAKOORI, A.R., 2012. Functional analysis of cus operon promoter of *Klebsiella pneumoniae* using *E. coli lacZ* assay. *Gene*, 495: 81-88.
- SULEMAN, A. AND SHAKOORI, A.R., 2012. Evaluation of physiological importance of metallothionein protein expressed by *Tetrahyemena cadmium metallothioein 1 (TMCd1)* gene in *Escherichia coli*. *J. cell. Biochem.*, DOI: 10.1002/jcb.24030. *J. cell. Biochem.*, 113:1616-1622.
- AHMED, A., MUNEER, B. AND SHAKOORI, A.R., 2012. Effect of chromium, cadmium and arsenic on growth and morphology of HeLa cells. *J. Basic Appl. Sci.*, 8: 5-10.
- MUJEEB, K.A. AND SHAKOORI, A.R., 2012. Effect of an organophosphate, Pirimiphos-Methyl, on esterases of different developmental stages of stored grain pest red flour beetle, *Tribolium castaneum* (Herbst.) - Spectrophotometric analysis. *Pakistan J. Zool.*, 44: 301-312
- AHMAD, A., ALI, M. AND SHAKOORI, A.R., 2012. Isolation and culture of cardiac progenitor and catrdiomyocytes from adult mouse. *Pakistan J. Zool.*, 44: 511-516.
- AHMAD, A., SHEHARBANO AND SHAKOORI, A.R., 2012. Effect of chromium and arsenic on growth and morphology of mice fetal calvarial cells (MFCC). *FUUAST J. Biol.*, 1: 23-28.



- SMITH, B., EVANS, C., ALI, A., ANCLIFF, P., HAYEE, B., SEGAL, A. W., KAYA, Z., SHAKOORI, A.R., LINCH, D. AND GALE, R., 2012. Phenotypic heterogeneity and evidence of a founder effect associated with G6PC3 mutations in patients with severe congenital neutropenia. *Br. J. Haematol.*
- AHMAD, A., AND SHAKOORI, A.R., 2012. Cytotoxic effect of cigarette smoke condensate on mice and rat mesenchymal stem cells and HeLa cells. *Turk. J. med. Sci.*, 42: doi:10.3906/sag-1105-19.
- AHMAD, A., UMER, R. AND SHAKOORI, A.R., 2013. Umbilical cord blood serum, a better alternative of fetal bovine serum. *Pakistan J. Zool.*, 45: 167-175.
- QURRATULAIN AND SHAKOORI, A.R., 2013. Frequency of Kras gene mutations in endometrioid carcinoma of uterus in Pakistani population. *Pakistan J. Zool.*, 45: 197-201.
- ALI, N.S., ALI, S.S. AND SHAKOORI, A.R., 2013. Effects of sublethal doses of malathion on biochemical components of malathion-resistant and -susceptible adults of *Rhyzopertha dominica*. *Pakistan J. Zool.*, 45: 203-212.
- MUNEER, B., IQBAL, M.J., SHAKOORI, F.R. AND SHAKOORI, A.R., 2013. Tolerance and biosorption of mercury by microbial consortia: Potential use in bioremediation of wastewater. *Pakistan J. Zool.*, 45: 247-254.
- ALI, B., ANJUM, A., MAHMOOD, S., WADOOD, M.A. AND SHAKOORI, A.R., 2013. Identification of bovine and human tuberculosis in AFB positive and negative patients. *Pakistan J. Zool.*, 45: 255-260.
- AHMAD, M.S. AND SHAKOORI, A.R., 2013. Isolation, molecular characterization and toxicity of cry1 gene Harboring *Bacillus thuringiensis* from different habitats and localities of Pakistan. *Pakistan J. Zool.*, 45: 261-271
- ALI, A., SIDDIQUE, M.K. AND SHAKOORI, A.R., 2013. Frequency of FLT3/ITD mutations in Pakistani acute myeloid leukemia patients. *Pakistan J. Zool.*, 45: 495-501.
- RAUF, A., NADEEM, M.S., ARSHAD, M., RIAZ, H., LATIF, M.M., IQBAL, M., LATIF, M.Z., AHMED, N. AND SHAKOORI, A.R., 2013. Prevalence of hepatitis B and C virus in the general population of Hill Surang area, Azad Jammu and Kashmir, Pakistan. *Pakistan J. Zool.*, 45: 543-548.
- Roquyya Gul, Saima Sadaf and Muhammad Waheed Akhtar 2012. Expression and sequence characterization of growth hormone binding protein of Nili-Ravi buffalo (*Bubalus bubalis*). *African Journal of Biotechnology* 11, 12103-12109.
- Sajjad, M. Imran M. Khan and M. Waheed Akhtar 2012. Influence of addition of carbohydrate binding domain on expression and properties of endoglucanase A (CelA) of *Clostridium thermocellum*. *Journal of Biotechnology* 161, 206-212.



- Saima Sadaf, Shaista Bashir and M. Waheed Akhtar 2012. Enhanced production and refolding of human leptin expressed in *Escherichia coli*. *Pak. J. Biochem Mol. Biol.* 45, 15-20.
- Saima Sadaf, M.Waheed Akhtar and Zarina Iqbal 2012. Uncertainty over pharmaceutical and biotech product patents in Pakistan. *Nature Biotechnology* 30, 1198-1200.
- Imran M. Khan, M. Sajjad, Sajjad Ahmad and M. Waheed Akhtar 2012. Effect of induction at different growth stages on the expression of β -1,4 xylanase of *Clostridium thermocellum*. *Pak. J. Biochem. Mol. Biol.* 45, 170-176.
- Ikram Ul Haq, Mahmood Ali Khan, Bushra Muneer, Zahid Hussain, Sumra Afzal, Sana Majeed, Naeem Rashid, M. Mohsin Javed and Ishtiaq Ahmad 2012. Cloning, characterization and molecular docking of a highly thermostable β -1,4-glucosidase from *Thermotoga petrophila*. *Biotechnol. Lett.* 34(9):1703-1709.
- Kausar Malik, Khalid Pervaiz Lone, Amjad Farooq, Asmat Ullah, Shagufta Andleeb, Muhammad Ali Talpur, Naeem Rashid, Nakhshab Choudhary and Khadija Awan 2012. Rapeseed meal feeding effects on total proteins and lipids of Japanese Quail. *Afr. J. Microbiol. Res.* 6(27): 5582-5586.
- Muhammad Faisal Bashir, Muhammad Saleem Haider, Naeem Rashid and Saba Riaz 2012. Distribution of hepatitis C virus (HCV) genotypes in different remote cities of Pakistan. *Afr. J. Microbiol. Res.* 6 (22): 4747-4751.
- Khalid Mahmood, Mateen Izhar, Nakhshab Choudhry, Ghulam Mujtaba and Naeem Rashid 2012. Emergence of Extended-spectrum β -lactamase producing *Salmonella typhi* in Pakistan. *Afr. J. Microbiol. Res.* 6 (4): 793-797.
- Nakhshab Choudhry, Saeed Ahmed Nagra, Tahir Shafi, Ghulam Mujtaba, Muhammad Abiodullah and Naeem Rashid 2012. Lack of association of insertion/deletion polymorphism in angiotensin converting enzyme gene with nephropathy in type 2 diabetic patients in Punjabi population of Pakistan. *Afr. J. Biotech.* 11 (6):1484-1489.
- Bashir R, Fatima A, Naz S 2012. Prioritized sequencing of the second exon of MYO15A reveals a new mutation segregating in a Pakistani family with moderate to severe hearing loss. *Eur J Med Genet* 55:99-102.
- Imtiaz A, Naz S 2012. A rapid and cost-effective protocol for screening known genes for autosomal recessive deafness. *Pak J Zoo* 44:641-647.
- Mujtaba G, Bukhari I, Fatima A, Naz S 2012. A p.C343S missense mutation in PJKV causes progressive hearing loss. *Gene* 504: 98-101.
- Bashir R, Fatima A, Naz S 2012. Prioritized sequencing of the second exon of MYO15A reveals a new mutation segregating in a Pakistani family with moderate to severe hearing loss. *Eur J Med Genet* 55:99-102.



- Imtiaz A, Naz S 2012. A rapid and cost-effective protocol for screening known genes for autosomal recessive deafness. *Pak J Zoo* 44:641-647.
- Mujtaba G, Bukhari I, Fatima A, Naz S 2012. A p.C343S missense mutation in PJKV causes progressive hearing loss. *Gene* 504: 98-101.
- Naz S, Fatima A. 2013. Amplification of GC-rich DNA for high throughput family based genetic studies. *Mol Biotechnol* 53:345-350.
- Bashir R, Imtiaz A, Fatima A, Alam A, Naz S 2013. c.42_52del11 mutation in TPRN and progressive hearing loss in a family from Pakistan. *Biochem Genet* 51:350-357
- Arif B, Kumar KR, Seibler P, Franke F, Fatima A, Winkler S, Nürnberg G, Thiele H, Nürnberg P, Jamil AZ, Brüggemann, A, Abbas G, Klein C, Naz S, Lohmann K 2013. A novel OPA3 mutation revealed by exome sequencing: An example of reverse phenotyping *JAMA Neurol* 70:783-787
- Malik S, Wilcox ER, Naz S. Novel lip pit phenotypes and mutations of IRF6 in Van der Woude Syndrome Patients from Pakistan. *Clin Genet*, 2013. doi: 10.1111/cge.12207.
- Khan MR, Bashir R, Naz S 2013. SLC26A4 mutations in patients with moderate to severe hearing loss. *Biochem Genet* 51:514-523.
- Bukhari I, Mujtaba G, Naz S 2013. Contribution of GJB2 mutations to hearing loss in Hazara division of Pakistan. *Biochem Genet* 51:524-529.
- Gardner QA, Younas H, Akhtar M. 2013. Studies on the regioselectivity and kinetics of the action of trypsin on proinsulin and its derivatives using mass spectrometry. *Biochim Biophys Acta*. 1834: 182 - 190.
- Studies on the expression and processing of human proinsulin derivatives encoded by different DNA constructs Farheen Aslam, Qurra-tul Ann Afza Gardner, Hina Zain, Muhammad Shahid Nadeem, Muhammad Ali, Naeem Rashid, Muhammad Akhtar, *Biochim Biophys Acta*. 1834: (2013) 2116-2123.
- Muhammad Atif Nisar, Naeem Rashid, Qamar Bashir, Qurra-tul-Ann Afza Gardner, Muhammmad Hassan Shafiq, Muhammad Akhtar. 2013. TK1299, a highly thermostable NAD(P)H oxidase from *Thermococcus kodakaraensis* exhibiting higher enzymatic activity with NADPH. *Journal of Bioscience and Bioengineering*. Volume 116, Issue 1, July 2013, Pages 39-44.
- Books:
 - SALIHA, Z., SATTAR, A., FARID, A. AND SHAKOORI, A.R., 2012. Termites of Pakistan & their Control. *Zoological Society of Pakistan*, pp. 102. ISBN 9078-969-9715-00-6.
 - Naz S (2012). Genetics of nonsyndromic recessively inherited moderate to severe and progressive deafness in humans in "Hearing Loss" ed Naz S, Intechweb, Croatia. Chapter 12, pp 247-274. (ISBN 979-953-307-271-4).



- **Conferences, Seminars & Workshops etc.**
 - First International Workshop on Recombinant Biotechnology April 22-29, 2013.

Faculty of Oriental Learning

DEPARTMENT OF ARABIC

- **Projects (ii) Newly Launched**

Name of Researcher	Topic of Research	Status
Dr. Hamid Ashraf Hamdani	الشعر العربي المعاصر في لبنان	Completed
Dr. Hamid Ashraf Hamdani	الشعر العربي المعاصر في المملكة العربية السعودية	Under process

- **Publications**

Authors Name	Article Name	Journal with Date
Prof. Dr. Muhammad Qamar Ali	Iqbal and Dr. Hussain Mujeeb Al Misry	Oriental College Magazine, 87/3
Dr. Hamid Ashraf Hamdani	النصيحة شروطها وضوابطها	Oriental College Magazine, 87/3
Dr. Hamid Ashraf Hamdani	الأستاذ عبدالسلام ياسين والمصدر الأساس في نظرية منهاج النبوي	Oriental College Magazine, 87/4
Dr. Hamid Ashraf Hamdani	تفسير أحكام القرآن لجماعة من علماء باكستان دراسة وتحليل	Al-Qalam, 17/2
Dr. Hamid Ashraf Hamdani	الوطنية: حقوق والتزامات في ضوء الشريعة الإسلامية	Jihat Al-Islam, 5/1
Dr. Hamid Ashraf Hamdani	الشعر العربي بين الأصالة والتجديد	Oriental College Magazine
Dr. Hamid Ashraf Hamdani	الأخطل الصغير شاعر الحب والهوى	Oriental College Magazine
Dr. Haris Mubeen	المجلات العلمية العربية نشأتها وتطورها في باكستان	Oriental College Magazine, Vol. 87, 4,
Dr. Hafiz Abdul Qadeer	ترجمه قرآن حکیم از مولانا سید شبیر احمد۔ ایک تجزیہ	Majallah-e-Tahqiq
Dr. Abdul Majid Nadeem	النماذج من الدراسات الدلالية في تفاسير القرون الخمسة الأولى	Oriental College Magazine, Vol. 87, 4,

- **Books**

Authors Name	Book Name	Publisher	No. of Pages	Year of Publication
Dr. Hamid Ashraf Hamdani	شعراء العربية في باكستان	Idara-e-Taleef-o-Tarjamah, Punjab University, Lahore	406	2012
Dr. Abdul Majid Nadeem	الجامع في قراءة الإمام زيد	Dar al Kutub al Ilmiah, Beirut – Lebanon.	512	2013

- **Conferences, Seminars & Workshops etc.**



Conference/ Seminar/Workshop	Title & Date	Sponsor	Organizer
Seminar	مذاهب كي درميان اخلاقي رواداري 07/03/2013	Tanzeem Al-Fajar Pakistan	Arabic Department
(Presented By) Prof. Dr. Muhammad Qamar Ali	باکستانی زبانوں كي ترویج مين عربي زبان كي اهميت . 06/05/2012		Abdul Latif Bhatai University, Khairpur
(Presented By) Prof. Dr. Muhammad Qamar Ali	كتب سيرت مين عربي زبان كي مرکزيت 20/12/2012		Shaikh Zayed Centre, Karachi University, Karachi
(Presented By) Dr. Hamid Ashraf Hamdani	المؤتمر الدولي للغة العربية وهوية الأمة (العربية وهوية الأمة) - 17 أكتوبر 2012م	University of the Punjab, Lahore	قسم اللغة العربية في الجامعة الأردنية، عمان، الأردن
(Presented By) Dr. Hamid Ashraf Hamdani	(2) مؤتمر مركزية القرآن الكريم في نظرية المنهاج النبوي عند الأستاذ عبد السلام ياسين 2-1 ديسمبر 2012م		استانبول، تركيا
(Presented By) Dr. Hamid Ashraf Hamdani	النصيحة: منطلقات وأبعاد 11-12 ديسمبر 2012م	University of the Punjab, Lahore	مؤتمر دولي تنظمه كلية الدعوة والإعلام بجامعة الإمام محمد بن سعود الإسلامية بالرياض
(Presented By) Dr. Hamid Ashraf Hamdani	الأدب العربي وأداب الشعوب الإسلامية : أفاق التواصل الفني والموضوعي 13-14 جمادى الآخرة 1434هـ / 23-24 إبريل 2013	University of the Punjab, Lahore	جامعة آل البيت: المملكة الأردنية الهاشمية
(Presented By) Dr. Hamid Ashraf Hamdani	: اللغة العربية في خطر : الجميع شركاء في حمايتها. 7-10 مايو 2013م		لدي
(Presented By) Dr. Hafiz Abdul Qadeer	الأدب العربي وأداب الشعوب الإسلامية : أفاق التواصل الفني والموضوعي 13-14 جمادى الآخرة 1434هـ / 23-24 إبريل 2013	University of the Punjab, Lahore	جامعة آل البيت: المملكة الأردنية الهاشمية

• Research Journals

Journal Name	Editor Name	Remarks
Majallah Al Qism Al Arabi, Department of Arabic, PU, Lahore Issue No. 19 / 2012	Prof. Dr. Khaliq Dad Malik	Annual

RESEARCH COLLABORATION

• Foreign Linkages

- Dr. Abdul Majid Nadeem, Assistant Professor conducted his postdoctoral research, for three months, at ISAM (Center of Islamic Research), Istanbul – Turkey.

DEPARTMENT OF IQBAL STUDIES

• Research & Development – An Overview



- Allama Iqbal Research Chair has been entrusted with a Research Project entitled دائرہ معارف اقبال (Encyclopaedia on Allama Iqbal's art and thought). Two volumes of this comprehensive project have been published and the third volume has also been completed.
- The Third volume contains 106 research articles on different topics of Allama Iqbal's art and thought have been composed and ready for publication.
- Dr. Syyed Muhmmad Akram has himself contributed 20 research articles to this volume.

● Seminars & Papers

- حرم کی پاسبانی ، نوائے وقت ، ۹ نومبر ۲۰۱۲
- برصغیر میں اسلامی تہذیب کا بے مثال پاسدار: قائد اعظم، نوائے وقت: ۲۵ دسمبر ۲۰۱۲
- اقبال اور گوٹے کی جہاں بینی، علامہ اقبال انٹرنیشنل کانفرنس، فیصل آباد، ۲۹-۳۰ نومبر ۲۰۱۲
- علامہ اقبال اور عصر حاضر، نوائے وقت لاہور، ۲۱ اپریل ۲۰۱۲

● Research Journals

ڈاکٹر سید محمد اکرم پروفیسر مسند اقبالیات کے تحقیقی مقالات کے عنوان درج ذیل ہیں۔ یہ مقالات دائرہ معارف اقبال کی تیسری جلد میں طباعت کے لئے حاضر ہیں۔

- علی مرتضیٰ: علامہ اقبال کی نظر میں
- علی بجویری: تعلیم اور تصوف اقبال کے نقطہ نظر سے
- فارسی زبان: اور کلام اقبال
- محمود غزنوی: علامہ اقبال کی نظر میں
- معراج: کا بیان اقبال کے کلام میں
- محمدصلی اللہ علیہ وسلم: کی حیات طیبہ اور اقبال کا خراج تحسین
- نیولین: شخصیت کلام اقبال کے حوالے سے
- عربی زبان: کی اہمیت برصغیر میں اقبال کی نظر میں
- قومیت: فکر اقبال کا اہم ترین مسئلہ
- موت: اقبال کا نقطہ نظر
- مزارات: علامہ اقبال کی حاضری اور اظہار ارادت
- فاطمہ الزہرا: مسلمان خواتین کے لیے اسوہ کاملہ۔ اقبال کے کلام میں
- گوٹے: "پیام مشرق" کے حوالے سے
- عجم/ ایران: علامہ اقبال کے نقطہ نظر سے
- فارسی غزل: اور سبک اقبال
- عبدالقادر الجیلانی [شیخ الشیوخ]
- عصر حاضر
- عمر بن الخطاب
- مثنوی
- نبوت

DEPARTMENT OF KASHMIRYAT (KASHMIR STUDIES)

● Projects (ii) Newly Launched



- Dr. Nusrat Nisar working on a research project Titled: Aalmi Hysiat Ka Kashmiri Tarjmaan “Abdul Rehman Rahi”.
- **Publications**
 - Books
 - Aziz Dr. Khawaja Zahid, A Short History of Kashmiri Language & Literature (Translation) (Press & Publication Department, University of the Punjab, Lahore)
 - Aziz Dr. Khawaja Zahid, Raza, Dr. Syed., Ali, Tasveer -e- Kashmiryat, (2012) Dogar Publishers, Urdu Bazar, Lahore.
 - Research Articles
 - Dr. Syed Ali Raza, Jammu-o-Kashmir Tareekh ky Ainy me, Tehqeeq, 2012.
 - Dr. Khawaja Zahid Aziz, Promotion of Islamic Literature in Kashmir, Tehqeeq, 2012
 - Dr. Khawaja Zahid Aziz, Bainama Amiritsar-Ak-Tareekhi Jaiza, Tehqeeq, 2012
 - Kashmir aur Iran ky Adbi wa Tehzeebi Mushtarqat, Oriental College Magazine, 2013.
 - Dr. Khawaja Zahid Aziz, Promotion of Persian Literature in Kashmir, Safeena, Pakistan, vol. 10, P. 40 to 44, Y. 2013
 - Dr. Khawaja Zahid Aziz, Islam and Kashmiri Society, Tehqeeq, 2013
 - Dr. Khawaja Zahid Aziz, Contribution of Kashmir to Arabic Literature, Oriental College, Magazine, 2013
 - Dr. Khawaja Zahid Aziz, Review of Translation of the Holy Quran in Kashmiri Language, Tehqeeq, 2013.
 - Dr. Nusrat Nisar, Syed Ali Hamdani ki Kashmir main Khidmaat, Tehqeeq, 2013.
 - Dr. Nusrat Nisar, Dr. Miss Gomri, Kashmir ki Angraiz Shaiyra, Sangarmal, 2012.
 - Dr. Nusrat Nisar, Prof. Hamdi Kashmiri ki Adbi Khidmaat, Sangarmal, 2013.
- **Conferences, Seminars & Workshops etc.**
 - Kashmir Ky Har Fun Mola Shaiyar, 05th October, 2012, Kashmiryat Department, University of the Punjab, Lahore.
 - Kashmir Aur Wasat Asia, 16th November, 2012, Kashmiryat Department, University of the Punjab, Lahore.
 - Masla-e-Kashmir Aalmi Tanzar Main, 04th December, 2012, Kashmiryat Department, University of the Punjab, Lahore.
 - Kashmir Main Bartanvi Mohaqaqeen Ka Kirdar, 16th January, 2013, Kashmiryat Department, University of the Punjab, Lahore.
 - Kashmir Main Arabi Zaban wa Adab Ki Tarveej, 13th February, 2013, Kashmiryat Department, University of the Punjab, Lahore.



اورینٹل کالج، پنجاب یونیورسٹی، لاہور

- Ghulam Moeen ud Din (2012), Dr. Qasem Safi "An Important Iranian Pakistan Studies, Scholar", Qoumi Zaban, Karachi.
- Ghulam Moeen ud Din (2012), Masnawi Nale-ye Ney by Imad al Mulk Nawab Ghazi ud Din Khan Nizam", Safeenah, A Research Journal of Persian Department, University of the Punjab, Lahore. Vol.10, 22-47.
- Ghulam Moeen ud Din & Khan Uzma Aziz (2012) "مثنوی نالہ نی از عماد الملک نواب غازی الدین خان" A Research Journal of Persian Department, University of the Punjab, Vol. 10, 25-48.
- Muhammad Saleem Mazhar & Oziar Samee Khan (Winter 2012). Ethnic Factor in Afghanistan, Journal of Political Studies, University of the Punjab, Lahore, Vol.19 No.02
- Mazhar, Muhammad Saleem, Khan Samee Ozair & Goraya, Naheed S. (Winter 2012). Ethnic Factor in Afghanistan. Journal of Political Studies. Vol. 19. No.01.
- Mazhar, Muhammad Saleem & Nasir Muhammad (2012) "نگاہی گذرا بہ شرح حال و آثار راجہ انور" Safeenah, A Research Journal of Persian Department, University of the Punjab, Vol. 10, 49-57.
- Mazhar, Muhammad Saleem (2012) "غالب اور حامیان قنیل تنازعہ" A Research Journal of Persian Department, University of the Punjab, Vol. 10, 215-221.
- Najam ur Rashid (2012) "Mutaliat-e Zobane Farsi Wa Iranshanasi dar Daneshgah-e Punjab" Danish, Islamabad. Issue No.(106-107), 205-216.
- Najam ur Rashid (2012) "ایران میں آرزو شناسی" Safeeneh, A Research Journal of Persian Department University of the Punjab. Lahore. Vol(10), 186-199
- Muhammad Nasir, "وصف قلم، دوات و کاغذ، رائے زادہ دونی چند کی تین بھولی بسری مثنویاں"، In the Praise of Pen, Inkpot & Paper, Three Forgotten Poems of Duni Chand Raizadeh (2013) ALMAS, Shah Abdul Latif University Khairpur, Sindh.
- Muhammad Nasir, مثنوی قند مکرر سروذ اصغر علی آبرو، Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 31, Sr. No. 81, 61-76
- Muhammad Nasir, معرّفی و بررسی انتقادی متون آموزش فارسی در پاکستان، Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No. 82, 05-32
- Muhammad Nasir, رائے زادہ دونی چند کی غیر مطبوعہ مثنوی مرزا و صاحبان، Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No 83, 35-44
- Muhammad Nasir, "بررسی مطالب عمدہ در شعر کلاسیک فارسی"، Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No 84, 05-26
- Muhammad Nasir, "Urfi Shirazi, The Futurist Persian Poet of Indian Style, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No. 85, 03-18
- Muhammad Nasir, نوآوران شعر جدید فارسی، Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 86, 05-16



- Muhammad Nasir, رے زادہ دونی چند کی غیر مطبوعہ مثنوی وامق و عذرا, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 87, 45-52
- Muhammad Nasir, سہراب سپہری کی شاعری میں رنگ، تجزیہ و تحلیل, Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No 324, 99-114
- Muhammad Nasir, قصہ لیلی و مجنون، سرودہ دونی چند رابزادہ, Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No 325, 93-100
- Muhammad Nasir, بررسی تحول زبان در شعر نیمایی, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 88, 25-42
- Muhammad Nasir, بررسی بسامد رنگها در شعر سہراب سپہری رنگین کمان ہشت کتاب, Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No 326, 105-133
- Muhammad Nasir, ما چشم بہ راہ پرندہ ایم (سیری در ہشت کتاب سہراب سپہری), Danesh, Iran Pakistan Research Institute, Islamabad, Vol 108, 137-153
- Muhammad Nasir, سنایی غزنوی، اخلاقی و عرفانی فارسی شاعری کا بانی, Safeenah, A Research Journal of Department of Persian, University of the Punjab, Lahore. Vol (10), 201-207
- Muhammad Nasir, نگاہی بہ درونمایہ شعر معاصر فارسی, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 89
- Syed Muhammad Farid, تاثیر نویسندگان ایران و آسیای مرکزی در شبہ قارہ دورہ غوریان, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 89
- Syed Muhammad Farid & Sabir Sobia, (2012) Role of Iranian and Central Asian Prose Writer in Ghazanavids in Sub-Continent نقش نژ نویسندگان ایرانی و آسیای مرکزی در دورہ غزنویان در شبہ قارہ, Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 70-90, 2012
- Muhammad Sabir (2012) "داستان سوهنی و مہینوال و داستان سرایان زبان فارسی آن" Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 93-102, 2012.
- Ahmad Shoaib (2012) "سعید خان ملتانی اور مناقب مشایخ" Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 273-276, 2012
- Nazia Uzma Zareen (2012) "بررسی نعت و منقبت سرایی بہ زبان فارسی در سند" Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 153-175, 2012.
- **Conferences, Seminars & Workshops etc.**
 - Ghulam Moeen ud Din (2012), "International Shiekh Abu al Hassan Kharkani Symposium", Kafkaz University, Kars, Turkey.

DEPARTMENT OF PUNJABI

• **Publications**



- Books
 - Prof. Dr. Saeed Khawar Bhutta. Raj Kahani, Sanjh, 2013
 - Dr. Naveed Ahmed Shahzad. Finishing Line, PU, 2012
- Research Articles
 - Prof. Dr. Ismat ullah Zahid. "Syed Bullayh Shah ki Shairi mai amno Sakon or Bardasht ka Pegam" Majallah Marife Oliya Volume No.11 Issue No. 3 (July-Sept 2013)
 - Prof. Dr. Ismat ullah Zahid "Glimpses of Punjabi Culture in the Heer Waris Shah" Oriental Colleg Magazine Volume 88. Serial No.328 (April-June 2013)
 - Prof. Dr. Saeed Khawar Bhutta "Mai Sabran" Tamahi Sangri Jild No.2 Isue 1 (Oct-Dec 2012)
 - Prof. Dr. Saeed Khawar Bhutta "Raj Kahani Bary Kujh Gallan" Tamahi Sangri Jild No.2 Isue 2 (Oct-Dec 2012)
 - Prof. Dr. Saeed Khawar Bhutta "Lal Badshah" Monthly Punjabi Adab Jild No.28 Isue 5,6 (May-June 2013)
 - Prof. Dr. Saeed Khawar Bhutta "Mirza Sahiban" Monthly Punjabi Adab Jild No.28 Isue 7,8 (May-June 2013)
 - Prof. Dr. Nabila Rehman Istalha tey loat Khoj No.69 Department of Punjabi, Oriental College, Punjab University, (Jul - Dec 2012),
 - Dr. Nahid Shahid Khawaja Ghulam Faid kay sufiana nazaryaat Khoj No.69 Department of Punjabi, Oriental College, Punjab University, (Jul - Dec 2012),
 - Dr. Naveed Ahmed Shahzad Khawaja Ghulam Faid kay sufiana nazaryaat Khoj No.69 Department of Punjabi, Oriental College, Punjab University, (Jul - Dec 2012),
 - Dr. Asma Qadri Qissa Mughal-o-Jutt ramzan dee taki whichoun Khoj No.69 Department of Punjabi, Oriental College, Punjab University, (Jul - Dec 2012),
 - Dr. Asma Qadri Paratan shair roup dohra 'banter tey sabha Orintel College Magezine, University Oriental College, Punjab University, (Jul - Dec 2012),.
 - Dr. Zaheer Ahmed Shafique Punjabi sufiana shairy wich murshad da tasawar Khoj No.69 Department of Punjabi, Oriental College, Punjab University, (Jul - Dec 2012),.
- **Conferences, Seminars & Workshops etc.**
 - Prof. Dr. Ismat ullah Zahid "International Sufi Conference" Punjabi University at Patiala, 2012.
 - Prof. Dr. Nabila Rehman "International Sufi Conference" Punjabi University at Patiala, 2012.
 - Dr. Naheed Shahid "International Sufi Conference" Punjabi University at Patiala, 2012.
 - Dr. Zaheer Ahmed Shafique "International Sufi Conference" Punjabi University at Patiala, 2012.
 - Prof. Dr. Ismat ullah Zahid "Ehle Qalam Conference" at Islamabad, (10-11 Jan. 2013).
 - Prof. Dr. Saeed Khawar Bhutta "Mian Muhammad Bakash" National Press Club Islamabad, (11 Jan. 2013)



- Prof. Dr. Nabila Rehman "Mata Darshan Kaur award" Punjabi Adbi Sangat Litrary Society of Canada, 2012.

DEPARTMENT OF URDU

• Publications

- Prof. Dr. Muhammad Kamran. Meer Aman say Intizar Hussain Tak. (2nd Edition). Lahore: Mawara Publishers, 2013
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. N. M. Rashed ki Nazmon kay Angraizi Tarajim. Faisalabad, Misal Publisher, 2013
- Prof. Dr. Zahid Munir Amir. Sham ki Subh Lebanon ki Sham(A Travelogue of Syria and Lebanon Along with a research paper presented at International Conference on Relitious Tolerance at University of Damascus Syria.). Lahore, Urdu Bazar, Revised & updated edition, 2013
- Prof. Dr. Zahid Munir Amir. Jazeere ka Khwab(A Travelogue of Mauritius). Lahore, Maktaba e Qasim ul Uloom rehman Markeet, 2013
- Dr. Zia-ul-Hassan. Shahzad Ahmad: Shaksiat aur Fan. Islamabad: Academy of Letters Pakistan, 2012
- Dr. Zia-ul-Hassan. Jadid Urdu Nazm: Aghaz o Irtaqa. Lahore: Sanjh Publication, 2012
- Dr. Nasir Abbas Nayyar. Maba'ad Nauabadiat: Urdu kay Tanazur Main. Karachi: Oxford University Press, 2013.
- Prof. Dr. Muhammad Kamran. Faiz Ahmad Faiz: Online Tanqeed ki Roshni main. Included in: Bazyaft. Lahore. Vol. 21, July-Dec 2012.
- Prof. Dr. Muhammad Kamran. The Role of Internet in the Promotion of Classical Urdu Poetry. Included in: Bazyaft. Lahore. Vol. 22, Jan-June 2013.
- Prof. Dr. Muhammad Kamran. Ghalib: Online Tanqid ki Roshni main. Included in: Tehqiq Nama. Lahore. G.C Ujniversity, Vol. 12, Jul-Dec 2013.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Meera Ji ___ Mamdooh e Rashed. Bazyaft. Issue 20, Lahore: Department of Urdu, Oriental College, Punjab University, Jul – Dec 2012.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Jadeed Urdu Nazm aur Insani Masawaat ka Khawab. Tehqiq Nama. Issue 10, Lahore: Department of Urdu, G. C. University, Jan 2013.
- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Urdu Shairy Insani Haqooq ki Alambardar. Tehqiqi Zawayay. Issue 2, Bhimber: Department of Urdu, Pakistani Languages, Alkhair University, Jul – Dec 2013.
- Prof. Dr. Zahid Munir Amir. Muhammad Iqbal's Passion for the Arab World. Included in: ETUDES Literariness. Lebanon: Research Journal University of Lebanon Series 70-72, 1389 HS/2010, 2012.
- Prof. Dr. Zahid Munir Amir. Kia Tareekh se kuch Seekha Ja sakta he?. Included in: Quarterly Al Tafseer. Karachi: Vol.6, Series 20, October-Dec 2012.



- Prof. Dr. Zahid Munir Amir. Timsal o Tajreed (Acritical Study of Wasif Ali Wasif's Poetry). Included in: Bunyad. Lahore: Research Journal of LUMS, Vol.4, 2013.
- Prof. Dr. Zahid Munir Amir. A Non Arab Poet whose Song always remained Arabian. Included in: Journal of Research (Humanities). Lahore: University of the Punjab, Vol.XLIX, January 2013.
- Prof. Dr. Zahid Munir Amir, Allama Asad aur Punjab University Wasl o Fasl included in : Muhammad Asad Aik European Badwi M Ikram Chughtai Pakistan writers Co Operative Society Lahore. 2013.
- Prof. Dr. Zahid Munir Amir, Islam, Iqbal Taharruk aur Takhleqiat included in: Armaghan e Rafiuddin Hashmi Dr Khalid Nadeem Majlis e Adbiyat e Mashriq 2013.
- Prof. Dr. Zahid Munir Amir, Ra'st Mutalia Matn ka Isharia included in: Khazeena e Iqbal Haroon ur Rasheed tabassum Maktaba e Tameer e Insaniyat Lahore 2013
- Prof. Dr. Zahid Munir Amir, Tadween e Matn Me'yari Usloob ki Talash included in: Fan e Tadween Aik Ta'aruf Ed.by Abida Batool Maktaba e Akhuwat Urdu Bazar Lahore 2013.
- Prof. Dr. Zahid Munir Amir, Introduction to the book included in: Hamdam E Iqbal (Sir Abdulqadir Hayat o Khidmat) By: Dr. Wahid ur Rehman Published by Kitab Sarae Urdu Bazar Lahore 2013.
- Prof. Dr. Zahid Munir Amir, Common Moral Objective and Interfaith Harmony in the Light of Iqbal's Thought (Urdu) included in: Armaghan e Allama Ala-ud-Din Siddiqui Ed by: Dr Jamila Shaukat Department of Islamic Studies University of the Punjab Lahore 2012.
- Prof. Dr. Zahid Munir Amir, Islamic Modern Trends in South Asia-Expansion through Media: From the second half of the nineteenth Century to the Beginning of the twentieth Century included in: Towards Hetero-Symbiosis and tolerance Lingua-Culture Contextual Studies in Ethnic Conflict of the World Edited by Y Takashina Research Institute of World languages Osaka University Japan, Collaboration with Sang e Meel Publications Lahore 2012.
- Prof. Dr. Zahid Munir Amir, Paish Nama included in: Sehat Ka Safar Vol 1 Wasiq Mahmood/ The wonderful Club Karachi 2012.
- Prof. Dr. Zahid Munir Amir. Ghamon ka Pahar. Included in: Monthly Al Hamra. Lahore: October 2012.
- Prof. Dr. Zahid Munir Amir. Aalam e Arab ki Sama'at Par Dastak. Included in: Fast World News. Nov 2012.
- Prof. Dr. Zahid Munir Amir. Kala Pani. Included in: Monthly Al Hamra. Lahore: Nov 2012.
- Prof. Dr. Zahid Munir Amir. Rang Nairang. Included in: Monthly Al Hamra. Lahore: Dec 2012.
- Prof. Dr. Zahid Munir Amir. Dard Sufi Shaer ya Kuch Aur. Included in: Monthly Qaumi Zaban. Karachi: Dec 2012.
- Prof. Dr. Zahid Munir Amir. Aakhri Salgira aakhri Tasweer (Shahzad Ahmad ki yaad mein). Included in: Quarterly Makhzan. Lahore: Issure 24, Vol. 12, No. 2, 2012.



- Prof. Dr. Zahid Munir Amir. Aankhon Mein Raqsan Daire. Included in: Monthly Al Hamra. Lahore: Jan 2013.
- Prof. Dr. Zahid Munir Amir. Mauritius ka Media Urdu aur Iqbal. Included in: Monthly Al Hamra. Lahore: Feb 2013.
- Prof. Dr. Zahid Munir Amir. Aik Kitab Aik Dastaweez. Included in: Mah e Nau. Lahore: Jan-March 2013.
- Prof. Dr. Zahid Munir Amir. Aik Kitab Aik Dastaweez. Included in: Monthly Sanabil. Karachi: August 2013.
- Prof. Dr. Zahid Munir Amir. Meri Ilmi aur Mutalia'ti Zindagi. Included in: Monthly Al Shariah. Sep 2013.
- Dr. Baseera Ambreen. Rubayat Umar Khayum – Fitzjirid aur Meeraji ka Mutarjama Kalam. Included in: Bazyaft. Lahore: Included in: Bazyaft, Lahore: Urdu Department, Punjab University, No. 21, Jul-Dec 2012.
- Dr. Baseera Ambreen. Iqbal ka Zouq e Ta'alli. Included in: Oriental College Magazine. Lahore: University Oriental College, No. 3, Jul - Sep 2012.
- Dr. Zia-ul-Hassan, Shehzad Ahmad ki Nazm Goi. Included in: Makhzan, Lahore Issue 24, 2012.
- Dr. Zia-ul-Hassan, Faiz Ahmad Faiz ki Shairy aur Hamara Ahid. Included in: Daryaft, Islamabad: Issue 11, Jul – Dec 2012.
- Dr. Zia-ul-Hassan, Mujh say Pehli si Muhabbat Meri Mehboob na Mang. Included in: Bazyaft, Lahore: Urdu Department, Punjab University, No. 21, Jul-Dec 2012.
- Dr. Zia-ul-Hassan, Iqbal awr Akif Chand Ishtirakat. Included in: Bazyaft, Lahore: Urdu Department, Punjab University, No. 22, Jan-Jun 2013.
- Dr. Zia-ul-Hassan, Ikeesin Sadi ki Pehli Dahai ki Urdu Ghazal. Included in: Asaleeb, Karachi: Issue 4, Dec 2012.
- Dr. Zia-ul-Hassan, Tadrees Tehqiq Naey Tanazur. Included in: Ajraa, Karachi: Issue 13, Jan-March 2013.
- Dr. Zia-ul-Hassan, Rashed ka She'ry Usloob. Included in: Ajmaal, Karachi: Issue 5, June 2013.
- Dr. Nasir Abbas Nayyar. Kuch Kazb o Ikhtira hai, Kuch Kazb Haq Numa hai. Included in: Journal of Research. BZU, Multan: Issue No 22, Dec 2012.
- Dr. Nasir Abbas Nayyar. Watan aur Jalawatni. Included in: Tanazur. Gujrat, Jul-Dec 2012.
- Dr. Nasir Abbas Nayyar. Meera Ji kay Tarajim. Included in: Oriental College Magazine, PU, Lahore Issue 3, Vol 88, 2013.
- Arifa Iqbal. Kalam e Faiz Mutarjama Dr. Mehboob ul Haq. Included in: Bazyaft. Lahore. Vol. 21, July-Dec 2012. PP69-79.



- Arifa Iqbal. Kalam e Faiz Mutarjama Nomi Lazard. Included in: Bazyaft. Lahore. Vol. 21, Jan-Jun 2013.
- **Conferences, Seminars & Workshops etc.**
 - Prof. Dr. Muhammad Kamran. Seminar Topic: European Conference on Arts and Humanities. England, Brighton: 16 to 19 July 2013
 - Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Seminar Topic: National Conference on Human Rights. Article Topic: "Urdu Shairy" Insani Haqooq ki Alam bardar. Lahore: Institute of Social and Cultural Study, Punjab University, (13th March 2012).
 - Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Seminar Topic: Alhamra Qoumi Adabi o Saqafti Conference. Article Topic: Bachon kay adab say beihtinai ka Masala. Lahore: Alhamra Arts Council, (12-13-14 October 2012).
 - Prof. Dr. Muhammad Fakhar-ul-Haq Noori. Conference Topic: Aalmi Urdu Conference: Urdu kay Hal Talab Masail aur Nai Nasal. Article Topic: Urdu kay deegar Zubanon –Par- Asraat. Lahore: Daily Express, (12-13 October 2013).
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: A Special Study of Iqbal's Zarb e Kaleem. Topic: Zarb-e-Kaleem. Lahore: Dabistan e Iqbal in collaboration with International Iqbal Society, (6th Oct 2012).
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: Youm-e-Iqbal. Lahore: Department of Botany University of the Punjab, (9th Nov 2012). Lecture on Iqbal's thought about young generation.
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: Iqbal Day Special . Article Topic: Iqbal Ijtihad and Reconstruction. Lahore: Pakistan Television, (9th Nov 2012).
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: Iqbal and todays Pakistan. Lahore: Markazi Majlis e Iqbal Al Hamra art Council, (11th Nov 2012).
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: Iqbal and Women. Lahore: Govt. Himayat e Islam College for Women Garden Town, (14th Nov 2012).
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: Momin Khan Momin A Critical Study. Lahore: Aitchison College, (16th Nov 2012).
 - Prof. Dr. Zahid Munir Amir. Seminar Topic: Piam e Mashriq Aik Mutalia. Lahore: Dabistan e Iqbal, (17th Nov 2012).
 - Prof. Dr. Zahid Munir Amir. Topic: Kashf al Mahjoob & Hazrat Syed Ali Jujwairi R.A . Participated in Talk. Lahore: Pakistan Television, (30th Dec 2012).
 - Dr. Zia-ul-Hassan, Fourth International Urdu Conference (Moasir Ghazal kay Takhliqi Imkanat). Karachi: Arts Council of Pakistan, 22 – 25 Nov 2011.
 - Dr. Nasir Abbas Nayyar. Seminar Topic: Manto Sadi International Conference. Nov 15-17, 2012, Sahitya Academy, Delhi, Article Topic: Hashiyay per Likha Matn:Manto kay Afsany ki nai Tafheem



- Dr. Nasir Abbas Nayyar. Seminar Topic: Adbi Theory or Sheriat , International Seminar, Nov 17-19, 2012, Salvation , Delhi held at Auditorium Sahitya Academy Article Topic: Muasir Pakistani Tanqid
- Dr. Nasir Abbas Nayyar. Seminar Topic: Sa'adat Hasan Mato ki Tahreeron men Qaumi Ham Ahangi, Almi Seminar, Nov 22, 2012, All India Urdu Manch, Bangalore, India Article Topic: Manto ki Tahreeron men Qaumi Ham Ahngi
- Dr. Nasir Abbas Nayyar. Seminar Topic: Manto aur Ham. Oct 19, 2012, Academy of Letters Pakistan, Lahore. Article Topic: Maba'ad 9/11: Dunya aur Manto.
- Dr. Nasir Abbas Nayyar. Seminar Topic: Aman aur Muhabbat ka Shair-Ghalib, Dec 11-13, 2012, Ghalib Memorial Trus, Lahore. Article Topic: Ghalib aur Azadi e Fikr.
- Dr. Nasir Abbas Nayyar. Seminar Topic: Aalmi Urdu Conference, Dec 7, 2012, Arts Council of Pakistan, Karachi. Article Topic: Meera Ji kay Tarajim.

INSTITUTE OF LANGUAGES

- **Journal Related Positions**

- Asst. Prof. Maria Isabel Maldonado
Advisory Board Member and Article Reviewer Language Issues (Peer reviewed journal) Nov 13-current, NATECLA (National Associate for Teaching English and other Community Languages to Adults) U.K.

- **Research Programs and Other Publications**

In 2013, a research culture was established at IOL. The following are projects which have been published, in process of publications or under review:

- Scientific Articles Under Review:
 - Khan, Ahmad Ali (2013) Linguistic Affinities between Urdu and Italian. In process of submission.
 - Maldonado García, Marí Isabel & Zechariah Qamar (2013): Greek Philology: Role of Greek Language in understanding Literature and Philosophy. In process of submission.
 - Maldonado García, María Isabel & Bakht Munir (2013): The Historical Genesis of Pashto Language; Stages of its Literary Development and its Linguistic affiliation with other Languages. In process of submission.
 - Maldonao García, María Isabel (2013): Etymological Analysis of five Cognate Sets in Urdu, Portuguese, Spanish and English. Submitted to Circulo de Linguistica Aplicada a la Comunicación.
 - Maldonado García, María Isabel & Borges, Ana (2013): Comparative Analysis of Ten Cognates in Portuguese and Urdu. Submitted to Studia Linguistica.
- Accepted for Publication:



- Maldonado García, María Isabel (2014): Frequency Counts in Poetry; Sultan Bahu's Concept of Mystical Love. Journal of South Asian Studies. Volume 1. No. 1 (2014).
 - Published:
 - Maldonado García, María Isabel (2013): Estudio Etimológico de Cuatro Pares de Cognados en Español y Urdu. Revista Iberoamericana de Lingüística. Vol.8. Valladolid.
 - Book Reviews
 - Maldonado García, María Isabel (2013): Language and the Power of the Expression-Book of Fethullah Güllen. Istanbul, Turkey: Revista Cascada Vol.4. November 2013.
 - Book Chapters
 - Maldonado García, María Isabel (2013): The Poetry of Sultan Bahu: His concept and Depiction of Mystical Love. In "Sultan Bahoo-A Spiritual and Literary Master". Islamabad. Muslim Institute. Presented in the conference 'International Sultan Bahu Conference', March 21st 2013.
 - The Language Concept in Gülen. In "Proceedings of Ideal Human, Ideal Society". Presented at the international conference "Ideal Human, Ideal Society". 21st November 2012.
 - Books
 - Maldonado García, María Isabel (2013): UNA Gramatica Poetica Mínima. Lahore. Department of Press and Publications. University of the Punjab. ISBN: 978-969-9815-03-4.
 - Maldonado Gracia, María Isabel (2013): EL Español de Argentina: UNA Clase Virtual. Lahore. Department of Press & Publications. University of the Punjab. ISBN: 978-969-9815-02-7.
- **Other Projects in Process**
 - A study about the phonetics of the nasal sounds in Chinese by Pakistani Students (Amna Rakha).
 - A study of Hebrew language grammar (Tony Williams).
 - 6 more research projects have been applied for, to be ready in 2014.
- **Conferences, Seminars & Workshops etc.**
 - Key Speakers: Maria Madonado and Dr. Fernando Padilla. Organized by Institute of Languages in collaboration with Dalarna University (Sweden). International Seminar. "Spanish America: Discovery, Conquest, Colonization and Independence." Pakistan Study Center. July, 2013.
 - Key Speaker: Maria Maldonado. International Sultan Bahu Conference. Islamabad Hotel. March 21st 2013. Presented the paper "The Poetry of Sultan Bahu: His Concept and Depiction of Mystical Love. A Linguistic Analysis."

UNIVERSITY ORIENTAL COLLEGE

- **Conferences, Seminars & Workshops etc.**
 - A program of Eid-Melad-un-Nabi (PUBH) was held 24-01-2013 in Sharnai Hall at Oriental College.



- A program of Eid-Melad-un-Nabi (PUBH) Naatia Mushira/Naat held on 30-01-2013 in the Sharni Hall with the collaboration of Punjabi Department, special khatab on Seerat-un-Nabi (PUBH) by the Khateeb of Data Darbar Mosque. The Vice Chancellor, University of the Punjab was the chief guest of this program.
- Two days international Punjabi conference, mushira, sufi sangat on 05, 06 June 2013 in the Sharani Hall with the collaboration of Department of Punjabi in which Foreign and Pakistani eminent scholars participated. The Vice Chancellor was the chief guest of this conference.
- A seminar on “Allama Iqbal & Asra-i-Hazir” held on 19-03-2013 in the Sharani Hall, with the collaboration of Persian Department. The Honorable Council General of Iran, Muhammad Hussain Bani Asadi was the chief guest of this seminar.
- Punjabi Tasuwaaf seminar held on 02-05-2013 in the Sharani Hall, with the collaboration of Department of Punjabi and Kh. Muhammad Yar Trust, various eminent scholars participated in this seminar.
- Function of prize distribution to the Punjabi students by the Masood Khaddar Posh Trust held on 03-05-2013 in the Shanari Hall, with the collaboration of Department of Punjabi.
- Under the directive of the Government of Punjab and Punjab University, special meetings (Ijlas) on “Dengue Eradication and awareness campaign” held on 23-07-2013 & 30-07-2013 in the Sharani Hall, presided by the Principal Oriental College.
- **Research Journals**
 - Recognized and historical Research Journal “Oriental College Magazine” has been publishing since 1925.

RESEARCH COLLABORATION

- **Foreign Linkages**
 - Al-Jamia Al-Azhar, Cairo, Egypt.
 - Daito Bunka University Tokyo, Japan
 - Ningxia University, China
 - Tehran University, Iran.
 - King Saud University, Al-Riadh, Saudi Arabia

Faculty of Pharmacy

UNIVERSITY COLLEGE OF PHARMACY

- **Research & Development – An Overview**
 - All teaching faculty in the University College of Pharmacy is involved in Research and Development. This research is in the fields of National priority areas. The faculty is involved in research in the disciplines of Pharmaceutics (formulation design, Clinical Pharmacy,



Biopharmaceutics and Pharmacokinetics), Pharm Chemistry (Analytical, Physical and Medicinal chemistry), Pharmacology and Pharmacognosy).

- **Projects (i) Completed**

- 11 completed (Prof. Dr. Syed Saeed ul Hussain, Professor Dr. Mobashar Ahmad Butt, Prof. Dr. Nadeem Irfan Bukhari and Prof. Dr. Khalid Hussain); duration of 1 year, sponsored by University of the Punjab, Lahore, each with funds of PRK 250000.
- Amjad Hussain, Dr. Fatima Rasool, Imran Tariq, Rahat Shamim, M. Khalil ur Rehman, Saïqa Ishtiaq, Sairah Hafeez Knan, Muhammad Islam), each with funds of PRK 150000.

- **Projects (ii) Newly Launched**

- About 11 projects are being applied to University of the Punjab, Lahore.

- **Publications**

- **Books/Edited**

- Professor Dr. Nadeem Irfan Bukhari, Biopharmaceutics and Pharmacokinetics-An activity based learning, Edition 2, Raaz Publishers, Lahore Pakistan

- **Publications**

- Syed Saeed-ul-Hassan

- Muhammad Tayyab Ansari, Zafar Saeed Saify, Nighat Sultana, Imran Ahmad, Syed Saed-Ul-Hassan, Imran Tariq and Munawer Khanum, "Malaria and artemisinin derivatives: an updated review", Mini Review in Medicinal Chemistry, Vol. 13(13), 1879-1902, 2013.
- Gul-E-Rana, Sabiha Karim, Rukhsana Khurshid, Syed Saeed-ul-Hassan, Imran Tariq, Misbah Sultana, Ahmad Junaid Rashid, Syed Haider Shah, "Hypoglycemic Activity of Ficus Racemosa Bark in Combination with Oral Hypoglycemic Drug" Acta Poloniae Pharmaceutica-Drug Research, Vol.70(6), 1045-1049, 2013.
- Syed Saeed-ul-Hassan, Muhammad Tayyab Ansari, Shumila Sadaf, Imran Tariq and Zahid Mahmood, "Development of Spectrophotometric Methods for the Determination of Cefixime in Capsule and Suspension by making complex with Cobalt Chloride and Cobalt Nitrate", Journal of the Chemical Society of Pakistan, Vol. 35(3), 641-646 2013

- Prof Dr. Mobasher Ahmad Butt

- Prof Dr. Mobasher Ahmad Butt. Hypoglycemic Activity of Ruelliatuberosa in Norwal and Alloxan induced diabetic rabbits. J.Chem.Soc. Pak., Vol. 34, No. 2, 2012
- Prof Dr. Mobasher Ahmad Butt. Prevalence & pidemiology and clinical study of Galactosemia. J App Pharm. 01 (04):524-530 (2012)
- Prof Dr. Mobasher Ahmad Butt. Effect of Iran Overload Cardiomopathy in Haemochromatosis and B. thalassemia J App Pharm 21 (04): 556-566(2012)

Dr. Nadeem Irfan Bukhari

- Syed Nisar Hussain Shah., Yasser Shahzad, Muhammad Sajid Hamid Akash, Muhammad Ali, Syed Nadeem Irfan Bukhari, and Syed Saeed ul Hassan. Rabbit skin and polydimethyl siloxane as model membranes to evaluate permeation kinetics from topical formulation. *Pakistan Journal of Zoology*, 45(1): 159-166, 2013.

Dr. Khalid Hussain

- Syed Saeed-ul-Hassan, Muhammad Khalil-ur-Rehman, Uzma Niaz, Muhammad Asif Saeed, Khalid Hussain, Saeed Ahmed Rao, Irshad Ahmed. Isolation and characterization of irritant components of *Euphorbia pilulifera* L. *Pakistan Journal of Pharmaceutical Sciences*, 26 (1), 2013, 31-37.
- Sabiha karim, Saringat H. Baie, Yuen K. Hay, Abida Latif, Rahat Shamim, Khalid Hussain, Nadeem I. Bukhari. Stability study of paracetamol and omeprazole pellets formulated through sieving-spheronisation. *Latin American Journal of Pharmacy*, 2013, 32(3), 431-436.

Syed, N.H.

- Kennedy, C., Chootip, K., Mitchell, C., Syed, N.H. & Tengah, A. (2013). P2X and P2Y nucleotide receptors as targets in cardiovascular disease. *Future Med. Chem.*, 5(4): 431-449.
- Ahmad, M., Syed, N.H., Akhtar, M.S., Erum, A., Mahmood, Q. & Alamgeer. (2012). Iono- and chronotropic effects of aqueous extract of *Berberis lycium* Royle root bark and berberine on in situ frog-heart preparation. *Lat. Am. J. Pharm.*, 31(5): 756-760.
- Mitchell, C., Syed, N.H., Tengah, A., Gurney, A.M. and Kennedy, C. (2012). Identification of contractile P2Y1, P2Y6 and P2Y12 receptors in rat intrapulmonary artery using selective ligands. *J. Pharmacol. Exp. Ther.*, 343(3): 755-762.
- Mitchell, C., Syed, N.H., Gurney, A.M. and Kennedy, C. (2012). Ca²⁺ influx induced by a Ca²⁺-dependent chloride current plays a major role in P2Y6 receptor-mediated pulmonary vasoconstriction. *Br. J. Pharmacol.*, 166(4): 1503-1512.

Sabiha Karim

- Ghulam MURTAZA, Mashood IQBAL, Suhail MOHAMMAD, Muhammad SALMAN, Formulation and In vitro Evaluation of Release Rate Characteristics of Different Binders in Mefenamic Acid Tablets. *Latin American Journal of Pharmacy*. *Lat. Am. J. Pharm.* 32 (4): 507-11 (2013).
- Alamgeer, Muhamamd S Akhtar, Qaiser Jabeen, Muhammad Akram, Hafeez U Khan Sabeha Karim, Muhammad NH Malik, Muhammad N Mushtaq and Umme Salma. Antihypertensive Activity of Aqueous-Methanol Extract of *Berberis Orthobotrys* Bien Ex Aitch in Rats. *Tropical Journal of Pharmaceutical Research* June 2013; 12 (3): 393-399
- SNH Shah, MA Tahir, A Safdar, R Riaz, Y Shahzad, M Rabbani1, S Karim and G Murtaza. Effect of Permeation Enhancers on the Release Behavior and Permeation Kinetics of Novel Tramadol Lotions. *Tropical Journal of Pharmaceutical Research* February 2013; 12 (1): 27-32. ISSN: 1596-5996 (print); 1596-9827 (electronic)



Fatima Rasool

- Rasool F, Khan MS, Ali A, Masood J. Prevalence of Risk factor of ST elevated Myocardial Infarction. Value in Health.2013, Vol.16 (7) A728.
- Atif Ali, Naveed Akhtar, Muhammad Shoaib Khan ,Fatima Rasool, Furqan Muhammad Iqbal, Muhammad Tahir Khan, Minhaj-ud- Din, EhsanElahi. Moisturizing effect of cream containing Molingaoliefera(Sohanjna) leaf extract by biophysical techniques: In vivo evaluation. Journal of Medicinal Plant Research, 2013, 7(8), 386-391.
- Haji Muhammad Shoaib Khan,GhulamMurtaza, Naveed Akhtar, Shujat Ali Khan, SairaAzhar, Barkat Ali Khan, Fatima Rasool and Izharhussain. Comparison of the effects of calcium channel blockers and non-selective beta blockers on blood lipids in hypertensive patients. Latin American Journal of Pharmacy, 2013, 32(6), 940-943.

Dr. Hamid Saeed

- Hamid Saeed, and Mehwish Iqtedar. Stem cell function and maintenance – ends that matter: Role of telomeres and telomerase 2J. Biosci. 38(3), September 2013, 641–649

Imran Tariq

- Muhammad Tayyab Ansari, Zafar Saeed Saify, Nighat Sultana, Imran Ahmad, Syed Saeed-Ul-Hassan, Imran Tariq and Munawer Khanum. Malaria and artemisinin derivatives: an updated review. Mini-Reviews in Medicinal Chemistry. 13 (13): 1879 – 1902. (2013)
- Syed Saeed ul Hassan , Syeda Fadia Zaidi , Imran Tariq* and Muhammad Tayyab Ansari. Development and Validation of Analytical Method for Losartan-Copper Complex Using UV-Vis Spectrophotometry. Tropical Journal of Pharmaceutical Research. 12 (3): 407-411(2013).
- Syed Saeed ul Hassan, Imran Tariq* Ayesha Khalid and Muhammad Tayyab Ansari. Comparative Clinical Study on the Effectiveness of Homeopathic Combination Remedy with Standard Maintenance Therapy for Dengue Fever. Tropical Journal of Pharmaceutical Research. 12 (5): 767-770 (2013).
- Syed Saeed-ul-Hassan, Ahsan-ul-Haq Ather, Muhammad Tayyab Ansari, Imran Tariq * and Sabiha Karim. Determination of Montelukast Sodium in Raw Material and Solid Dosage Form Using Reverse Phase HPLC. Asian Journal of Chemistry. 25 (13): 7481-7484. (2013)
- Syed Saeed-ul-Hassan, Imran Tariq *, Sabiha Karim, Muhammad Khalil- ur- Rehman, Sajid Bashir & Ghulam Murtaza. Novel Approach for the Determination of Alfalcidol in Bulk and Tablet Dosage Form using Spectrophotometric Method. Latin American Journal of Pharmacy. 32 (5): 784-8 (2013)
- Misbah Sultana, Syed Saeed-ul-Hasan, Tariq Saeed, Rizwan Mahmood, Imran Tariq *, Pervaiz A. Shah & Syed A. Raza. The Effect of Silicon Dioxide Concentrations on Drug Release from



- Poloxamer/Silicon Dioxide Gel Formulations and their Rheological Characterization. Latin American Journal of Pharmacy. 32 (6): 911-6 (2013). (IF= 0.308)
- Syed Saeed-ul-Hassan, Muhammad Tayyab Ansari, Shumaila Sadaf, Imran Tariq *, Zahid Mahmood. Development of Spectrophotometric Methods for the Determination of Cefixime in Capsule and Suspension by Making Complex with Cobalt Chloride and Cobalt Nitrate. Journal of Chemical Society of Pakistan. 35 (3): 641-646 (2013).
 - Syed Saeed-ul-Hassan *, Muhammad Usman Bhatti , Muhammad Khalil-ur-Rehman, Uzma Niaz, Imran Waheed, Shahid Rasool, Sabiha Karim, Muhammad Asif Saeed and Imran Tariq. Irritant effects of Euphorbia prostrata. African journal of Pharmacy and Pharmacology. 7(33): 2321-2332. (2013)
 - Gul-e-Rana, Sabiha Karim, Rukhshan Khurshid, Syed Saeed-ul- Hassan, Imran Tariq, Misbah Sultana, Ahmad Junaid Rashid, Syed Haider Shah and Ghulam Murtaza. Hypoglycemic activity of ficus racemosa bark In combination with oral hypoglycemic drug in diabetic human. Acta Poloniae Pharmaceutica ñ Drug Research. 70 :(6)1045-1049 (2013)

Pervaiz Akhtar Shah

- Screening of various botanical extracts for antioxidant activity using dpph free radical method. Afr J Tradit Complement Altern Med. (2013) 10(6):452-455, 452
- The Effect of Silicon Dioxide Concentrations on Drug Release from Poloxamer/Silicon Dioxide Gel Formulations and their Rheological Characterization Latin American Journal of Pharmacy Lat. Am. J. Pharm. 32 (6): 911-7 (2013)
- **Conferences, Seminars & Workshops etc.**
 - International Conference on Research Methodology: New Trends and Integrative Approach— From Bench to Bedside, 6—8 September 2012, University College of Pharmacy, University of the Punjab, Lahore, Pakistan.
 - Seminar on hospital pharmacy—a new practice environment, organized by University College of Pharmacy, University of the Punjab, Lahore, Pakistan in collaboration with Shaukat Khanam Memorial Cancer Hospital and Research Centre. 20 October 2012.
 - Seminar on new horizons in career development for pharmacy students, Organized by University College of Pharmacy, University of the Punjab, Lahore, Pakistan. 22 June 2013.

Invited lecturers delivered outside the Department/Institute/Centre/ College

- Nadeem Irfan Bukhari. Non-traditional careers for the Pharmacists at seminar on Career Counselling, College of Pharmacy, GC University, Faisalabad held on 06 June, 2013.
- Nadeem Irfan Bukhari. Statistics in clinical research at The University of Lahore, Lahore at 2nd Annual Health Trigon Summit held on 25 May, 2013.



- Nadeem Irfan Bukhari. Quality by design (QBD) and design space to the post graduate students of QP course at Scholl of Pharmacy, University College of London, London, UK. January 8, 2013.

The Faculty members presented/participated in/attended the following:-

Prof. Dr. Saeed ul Hassan

- Attended One Day “2nd Annual Health Trigon Summit” on 25th May, 2013 organized by The University of Lahore. Acted as Chairman for the second scientific session and also participated in group discussion.

Prof Dr. Mobasher Ahmad Butt

- Presented a paper in National Conference “Peoples Health through quality pharmacy services think globally act locally” Lahore College for Women University, 2012.sss

Syed Nawazish-E-Hassan

- International Union of Physiological Sciences (IUPS 2013) at Birmingham, UK from 21st to 26th July, 2013.
- University Research Day, Strathclyde University, Glasgow, UK (7th June, 2013)
- Scottish Cardiovascular Forum (SCF), Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013.
- British Pharmacological Society, Winter Meeting, London, UK, from 18th to 20th December, 2012.
- Syed, N.H. and Kennedy, C. (2012). Pharmacology of P2X receptors. WIREs Membr. Transp. Signal., 1: 16-30.
- Syed, N.H., Tengah, A., Talip, S.T.A., Bujang, S.N.B. and Kennedy, C. Differences in the signalling mechanisms underlying UTP-evoked vasoconstriction of pulmonary and systemic-like arteries. Presented at “IUPS, 2013” Birmingham, UK (21st July to 26th July, 2013). Poster communication number PCD370.
- Syed, N.H. and Jones, R.L. Comparison of the agonist activities of treprostinil and naxaprostene in systemic blood vessels. Presented at “IUPS, 2013” Birmingham, UK (21st July to 26th July, 2013). Poster communication number PCD10
- Syed, N.H., Tengah, A. and Kennedy, C. Characterisation of signalling mechanisms that underlie P2Y receptor-mediated vasoconstriction of rat intrapulmonary artery. Presented at “Scottish Cardiovascular Forum” Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013. Poster communication number P1.
- Syed, N.H. and Jones, R.L. Comparison of the agonist activities of treprostinil and naxaprostene in systemic blood vessels. Presented at “Scottish Cardiovascular Forum” Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013. Poster communication number P13.



- Syed, N.H., Tengah, A., Talip, S.T.A., Bujang, S.N.B. and Kennedy, C. Differences in the signalling mechanisms underlying UTP-evoked vasoconstriction of pulmonary and systemic-like arteries. Presented at “Scottish Cardiovascular Forum” Strathclyde Institute of Pharmacy and Biomedical Sciences, University of Strathclyde, Glasgow, Scotland, UK, on 2nd February, 2013. Poster communication number P44.

Fatima Rasool

- Haji Muhammad Shaoib Khan, Fatima Rasool, Naveed Akhtar, Atif Ali, Qamar-uz-zaman. Prevalence, Risk factors and complications for rheumatoid arthritis observed in Bahawalpur region. Abstract published in 2nd national pharmacy conference and exhibition “Pharmacy profession for prosperous health” held on 8-9 Feb 2013 Ghotive Hall, Pharmacy department, Islamia University of Bahawalpur, organized by Pharmacy Department in collaboration with Higher Education Commission Pakistan.
- Haji Muhammad Shaoib Khan, Naveed Akhtar, Atif Ali, Fatima Rasool, Rheological studies of stable cream containing anthocyanins extract. Abstract published in 2nd national pharmacy conference and exhibition “Pharmacy profession for prosperous health” held on 8-9 Feb 2013 Ghotive Hall, Pharmacy department, Islamia University of Bahawalpur, organized by Pharmacy Department in collaboration with Higher Education Commission Pakistan.

Imran Tariq

- Attended One Day “2nd Annual Health Trigon Summit” on 25th May, 2013 organized by The University of Lahore. Acted as Speaker in the second scientific session

Pervaiz Shah

- Pervaiz A Shah. Development and evaluation of Lornoxicam microspheres by using Hydrophilic and hydrophobic polymers IPCE 2013 29th october to 2nd november
 - Development and Validation of RP-HPLC Method for Determination of Famotidine and its Application in Quality Control of Different Pharmaceutical Dosage Forms .Journal of chemical society of Pakistan. 12/2012; 35(3).
 - Antioxidant and Phenolic Content Estimations of Different Fractions of Lathyrus aphaca (Leguminosae) Supported by Phytochemical Testing .International journal of advances in pharmaceutical research vol.4,Issue 7 july 2013
 - Ethnobotanical studies on some wild plants of Head Qadirabad and adjoining areas, Pakistan..International Journal of Phytomedicine. Vol 5, No 3 (2013)
 - Application of glucose oxidase for the production of metal gluconates by fermentation.African Journal of Biotechnology Vol. 12(48), pp. 6766-6775, 27 November, 2013
- **Research Journals**
 - University College of Pharmacy is publishing regular issue of journal under the name of “Pakistan Journal of Pharmacy



RESEARCH COLLABORATION

- **Indigenous**
 - Few Faculty members have collaboration with renowned degree awarding Universities in different areas of global villages in the capacities of co-supervisors for awarding Ph.D. Degrees
- **Foreign Linkages**
 - Dr. Nadeem Irfan Bukhari has collaboration with DeMont Fort University, UK and Otago University, New Zealand as external supervisor of PhD students.

Faculty of Sciences

CENTRE OF EXCELLENCE IN SOLID STATE PHYSICS

- **Projects (ii) Newly Launched**

Sr. No.	Duration	Sponsoring Agency	Funding
1.	2 years	Higher Education Commission	38.533 Million
2.	6 months	Higher Education Commission	0.5 Million

- **Publications**

2012

- I. Ahmed, F.D. Chang, G. Husnain, S. Naseem, H.M. Rafique and Y. Long, The use of high intensity electron beam to form nanohole, induce bending and fabricate nano-contact on a ZnO nanowire, Micro and Nano Letters, 7, 2012, 122
- M. Farooq, S. Alam, I. Ali, B. Wasim, M. Irfan, P. Ahmad, S. Naseem and S.F. Shaukat, Study of tribological & wear characteristics of thermal barrier coatings on stainless steel substrate, Archives Des Sciences, 65, 2012, 517
- M. Khalid, S. Riaz and S. Naseem, Surface passivation of Ti/4H-SiC Schottky barrier diode, Communication in Theoretical Physics, 58, 2012, 577
- A. Waheed, G.R. Mitchell, P.J.F. Harris, M. Farmer, A. Watts, S. Naseem, S. Riaz and S.K. Chakarvarti, Fission fragments track-etched pores in borate glass, International Journal of Pharma and Bio Sciences, 3, 2012, 368
- S. Anjum, M.S. Rafique, M. Khaleeq-ur-Rahman, K. Siraj, S. Naseem, A. Usman, and S.I. Husnain, Investigation of induced parallel magnetic anisotropy at low deposition temperature in Ba-hexaferrites thin films, Journal of Magnetism and Magnetic Materials 324, 2012, 711
- I Ahmed, G. Husnain, S. Naseem and Y. Long, Depth-dependent tetragonal distortion study of AlGaN epilayer thin film using RBS and channeling technique, Int. J. Mod. Phys. B, 26, 2012, 1250086



- M. Farooq, K.M. Deen, S. Alam, R. Ahmad, I. Ahmad and S. Naseem, Electrochemical behaviour of Ytria stablized Thermal barrier coating on mild steel in artificial see water, Proc. Pak. Acad. Sci., 49, 2012, 235
- Z.N. Kayani, S. Naseem and R.A. Lewis, Synthesis of 4-alkyl-1", 3" difluoro terphenyl nitrile using coupling reactions, Journal of Molecular Liquids, 175, 2012, 72
- M. Saleem, S. A. Siddiqi, S. Atiq and S. Naseem, Structural and magnetic studies of Ni-doped ZnO synthesized with auto-combustion and co-precipitation techniques, Journal of the Korean Physical Society, 60, 2012, 1772
- S.K. Ghoshal, M.R. Sahar, R.J. Amjad, and S. Riaz, Enhanced Infrared to Visible Upconversion Emission in Er³⁺ Doped Phosphate Glass Containing Silver Nanoparticles, Advanced Materials Research 50, 2012, 138
- R.J. Amjad, M.R. Sahar, S.K. Ghoshal, M.R. Dousti, S. Riaz, and B. A. Tahir, Optical Investigation of Sm³⁺ Doped Zinc- Lead-phosphate glass, Chinese Physics Letters, 29, 2012, 087304
- S. Dawei, J. Chen, S. Riaz, W. Zhou and X.F. Han, Controlled nanostructuring of multiphase core-shell nanowires by a template-assisted electrodeposition approach, Nanotechnology, 23, 2012, 305601
- R.J. Amjad, M.R. Sahar, S.K. Ghoshal, M.R. Dousti and S. Riaz, Enhanced infrared to visible upconversion emission in Er³⁺ doped phosphate glass: Role of silver nanoparticles, Journal of Luminescence, 132, 2012, 2714
- B .U. Haq, A. Afaq, R. Ahmed and S. Naseem, A comprehensive DFT study of zinc oxide in different phases, Int. J. Mod. Phy. C, 23, 2012, 1250043
- A. Rahman, I. Ahmad, A. Afaq and H.J. Zhao, Photo-detachment of a Homo-Nuclear Linear Tetra-Atomic Negative Molecular Ion, Chin. Phys. Lett. 29, 2012, 043301
- I. Khan, A. Afaq, H.A. Rahnamaye Aliabad and I. Ahmad, Transition from optically inactive to active Mg-Chalcogenides: A first principle study, Computational Materials Science, 61, 2012, 278
- B.U. Haq, A. Afaq, R. Ahmed and S. Naseem, Structural, Electronic and Magnetic Properties of Co-Doped ZnO, Chinese physics B 21, 2012, 097101
- S. Ashiq and A. Afaq, Classical Limit in the Photo-detachment of a Diatomic Anion: A Two-Center Model Approach, Sci. Int. (Lahore), 24, 2012, 113
- A. Amjad, A. Afaq, M. Nawaz and S. Ashiq, Photo-detached Electronic Wave Function of Hydrogen Halide Anions, Sci. Int. (Lahore), 24, 2012, 337
- A. Sajid, S. M. Alay-e-Abbas, A. Afaq and A. Shaukat, Structural, Electronic and Optical Properties of MgS_xSe_{1-x}, MgS_xTe_{1-x} and MgSe_xTe_{1-x} (0 < x < 1) alloys From First Principles, Int. J. Mod. Phy. B, 26, 2012, 1250098



- M. Saleem, S. A. Siddiqi, S. M. Ramay, S. Atiq and S. Naseem, Origin of Ferromagnetism in Al and Ni Co-doped ZnO Based DMS Materials, Chinese Physics Letters, 29, 2012, 106103.
- M. Azim, S. Atiq and S. Naseem, Structural and electrical characterization of lanthanum doped strontium hexaferrites, Science International 24, 2012, 341
- M.A. Raza, E.S. Kooij, A. Van Silfhout, H.J.W. Zandvliet and B. Poelsema, A colloidal route to fabricate hierarchical sticky and non-sticky substrates, Journal of Colloid Interface Science. 385, 2012, 73
- H. Rinnert, S.S. Hussain, V. Brien, J. Legrand and P. Pigeat, Photoluminescence properties of Er-doped AlN films prepared by magnetron sputtering, Journal of Luminescence 132, 2012, 2367

2013

- D. Ali, M.Z. Butt and S. Naseem, Characterization of laser-produced plasma ions of various metals and their effect on the optical properties of CR-39 polymer, Radiation Effects and Defects in Solids, 168, 2013, 1
- R.J. Amjad, M.R. Sahar, S.K. Ghoshal, M.R. Dousti, S. Riaz, S. Naseem, A.R. Samavati and R. Arifin, Annealing time dependent up conversion luminescence enhancement in magnesium-tellurite glass, Journal of Luminescence, 136, 2013, 145
- M. Azam, S. Riaz and S. Naseem, Designing and simulation of optoelectronic devices using SYNOPSIS TCAD, Advanced Science Letter, 19, 2013, 496
- S. Riaz, A. Sajid, M.A. Jamil and S. Naseem, Optical and structural properties of evaporated $ZnxCd_{1-x}S$ ($0 \leq x \leq 1$) thin films, Advanced Science letter, 19, 2013, 719
- S. Islam, R.A. Rahman, Z. Othaman, S. Riaz, M.A. Saeed and S. Naseem, Preparation and Characterization of Crack-Free Sol Gel Based SiO_2-TiO_2 Hybrid Nanoparticle Film, Journal of Sol-Gel Science and Technology, DOI 10.1007/s10971-013-3147-x, 2013
- A. Bukhtiar, M.A. Mustafa, M. Umer, M. Khalid, S. Riaz and S. Naseem, Study of impact ionization in the 3D FinFET structure by varying channel doping concentration at higher temperature using SYNOPSIS TCAD, Advanced Science Letters, 19, 2013, 753
- A. Bukhtiar, M.A. Mustafa, M. Umer, M. Khalid, S. Riaz and S. Naseem, Comparison study of impact ionization for FinFET and FD SOI device by using TCAD, Advanced Science Letters, 19, 2013, 780
- S. Riaz, S. Farooq and S. Naseem, A study of PVD deposited FeO thin films and magnetic application, Advanced Science Letters, 19, 2013, 785
- M.S. Akhtar, S. Riaz, S.S. Hussain and S. Naseem, Structural and optical properties of Sol-Gel derived $Zn_{1-x}Mn_xO$ thin films, Advanced Science Letters 19, 2013, 789
- M. Khalid S. Riaz and S. Naseem, Theoretical investigation of breakdown voltage in normally-On 4H-SiC VJFET, Advanced Science Letters, 19, 2013, 820



- S. Riaz, A. Akbar and S. Naseem, Structural, electrical and magnetic properties of iron oxide thin films, *Advanced Science Letters*, 19, 2013, 828
- M.S. Akhtar, S. Riaz, R. Noor and S. Naseem, Optical and structural properties of ZnO thin films for solar cells applications, *Advanced Science Letters*. 19, 2013, 834
- S. Honey, M.T. Bhatti, S. Riaz and S. Naseem, Optical properties of CdTe films prepared by centrifugal coating technique, *Advanced Science Letters*, 19, 2013, 866
- Z.N. Kayani, S. Naseem and R.A. Lewis, Development of novel chiral dopants to be used in ferroelectric liquid crystal system, *Journal of Molecular Liquid*, 180, 2013, 7
- Z. Ullah, S. Atiq and S. Naseem, Influence of Pb and doping on structural, electrical and magnetic properties of Sr-hexaferrites, *Journal of Alloys and Compounds*, 555, 2013, 263
- A. Ishfaq, M. Usman, C.F. Dee, S. Naseem, A.A. Khurram, L. Yan, X.T. Zhou, A. Nadeem, H.M. Rafiq and BY, Majlis, Effects of the hydrogen, nitrogen phosphorous and argon ion beam irradiation on the ZnO NWs, *Journal of Nanoparticle Research*, 15, 2013, 1467
- K. Siraj, K. Javaid, J.D. Pedarnig, M.A. Bodea and S. Naseem, Electron beam induced nanostructures and band gap tuning of ZnO thin films, *J. Alloys and Compounds*, 563, 2013, 280
- F. Majid, S. Riaz and S. Naseem, Optical properties of electrodeposited alumina thin films by using spectroscopic ellipsometer, *Applied Mechanics and Materials*, 319, 2013, 84
- R. Sharif, S. Shumaila, J.Y. Chen, M. Khaleeq-ur-Rahman, K. Hussain, S. Naseem and X.F. Han, Nanotubes wall thickness dependent magnetization reversal properties of NiFe nanotubes, *J. Appl. Phys.*, 113, 2013, 024315
- I. Sadiq, I. Khan, S. Naseem, E.V. Rebrov, M.N. Ashiq and M.U. Rana, Structural, infrared, magnetic and microwave absorption properties of rare earth doped x-type hexagonal nanoferrites, *J. Alloys and Compounds*, 7, 2013, 570
- M. Farooq, S. Alam, S. Naseem, S.F. Shaukat and R. Farooq, Stabilize consequences of Y²O₃ in zirconia thermal barrier coatings (TBC), *J. Chem. Soc. Pak.*, 35, 2013, 37
- A. Ishaq, S. Iqbal, S. Naseem, N. Ali, A.A. Khurram, A. Akram, C.F. Dee, H.M. Rafique and Y. Long, H⁺, N⁺, and Ar⁺ ion irradiation induced structure changes of carbon nanostructures, *Carbon* 60, 2013, 562
- Z. N. Kayani, S. Riaz and S. Naseem, Structural and magnetic properties of FeCoNi thin films, *Indian Journal of Physics*, DOI 10.1007/s12648-013-0388-z, 2013
- M.Z. Butt, D. Ali, S. Naseem, F. Bashir and M. Ishtiaq, Surface morphology and structural characterization of high purity iron irradiated with Nd: YAG pulsed laser, *Physica B*, 425, 2013, 58
- F. Kanwal, R. Rehman, M.W. Mushtaq, A. Batool and S. Naseem, Use of opuntia dillenii seeds for sorptive removal of acidic textile dyes from water in benign way, *Asian Journal of Chemistry*, 25, 2013, 7710



- K. Hussain, N. Ahmed and S. Naseem, Quantification of phases in Lahore (Pakistan) airborne particulates, *Journal of Minerals and Materials Characterization and Engineering*, 2013
- F. Altaf, S. Atiq, S. Riaz and S. Naseem, Optimizing the preparation conditions of Co-doped SrFe₁₂O₁₉ and investigating its structural and dielectrical properties, *Sci. Int.*, 25, 2013, 63
- R.J. Amjad, M.R. Sahar, S.K. Ghosal, M.R. Dousti, A.R. Samavata, R. Arifina, S. Naseem and S. Riaz, Selective metallization by seeded growth on patterned gold nanoparticle arrays, *J. Appl. Phys.* 113, 2013, 233510
- R.J. Amjad M.R. Sahar, S.K. Ghosal, M.R. Dousti, A.R. Samavatia, R. Arifina, S. Naseem and S. Riaz, Plasmon enhanced conversion fluorescence in Er³⁺: Ag phosphate glass: effect of heat treatment, *Chinese Physics Letters*, 30, 2013, 027301
- R.J. Amjad, M.R. Sahar, S.K. Ghosal, M.R. Dousti, S. Riaz, A.R. Samavatia and B.A. Tahir, Spectroscopic investigation of rare-earth doped phosphate glasses containing silver, *Acta Physica Polonica A*, 123, 2013, 7986
- A. Afaq, G. Murtaza and I. Ahmad, Shift of indirect to direct band gap in going from K to Cs in MCAF₃ (M=K, Rb,Cs), *Solid State Sciences*, 16, 2013, 152
- A. Afaq and M. Nawaz, Electron flux distributions in photodetachment of HF-near an interface theoretical imaging method study, *Chinese Physics B*, 22, 2013, 013205
- A. Afaq and T. Fiyazi, Photo-detachment of H, *Sci. Int. (Lahore)*, 25, 2013, 71
- A. Afaq, A. Sajjid and G. Murtaza, First principle study of electronic and optical properties of magnesium based chalcogenides, *Chinese Journal of Physics*, 51, 2013, 316
- G. Ali, S. A. Siddiqi, S. M. Ramay, S. Atiq and M. Saleem, Sol-Gel synthesis and effect of co-substitution on structural, electrical and magnetic properties of Bi_{0.9}FeO₃, *International J. of Minerals, Metallurgy and Materials*, 20, 2013, 166
- Z. Ullah, S. Atiq and S. Naseem, Influence of Pb doping on structural, electrical and magnetic properties of Sr-hexaferrites, *Journal of Alloys and Compounds*, 555, 2013, 263
- S. Atiq, S. A. Siddiqi, F. Abbas, M. Saleem and S. M. Ramay, Carrier-assisted enhanced ferromagnetism in Al-doped ZnMnO Nano-crystallites, *Chinese Journal of Chemical Physics*, 26, 2013, 457
- F. Altaf, S. Atiq, S. Riaz and S. Naseem, Optimizing the preparation conditions of Co-doped SrFe₁₂O₁₉ and investigating its structural and dialectical properties, *Science International* 25, 63, 2013
- Z. Ullah, S. Atiq and S. Naseem, Indexing the diffraction pattern and investigating the crystal structure of Pb-doped strontium ferrites, *Journal of Scientific Research* 5, 2013, 235
- M.A. Raza, E.S. Kooij, A. van Silfhout, H.J.W. Zandvliet and B. Poelsema, Selective metallization by seeded growth on patterned gold nanoparticle arrays, *Journal of Applied Physics*. 113, 2013, 233510



- **Conferences, Seminars & Workshops etc.**

- **2012**

- S. Riaz, M. Bashir, S.S. Hussain, and S. Naseem, Effects of Mn-doping Concentration on the Structural & Magnetic Properties of Sol-Gel Deposited ZnO Diluted Magnetic Semiconductor, Presented at International Conference on Advanced Materials and Manufacturing Science(ICAMMS) December 21-21, 2012, Beijing, China
 - S. Naseem S. Riaz, M. Azam, S. S. Ali and Y.A. Durrani, Power Macro Modeling for CMOS Inverter of 0.12 μ m Technology, Presented at International Conference on Advanced Materials and Manufacturing Science (ICAMMS) December 21-21, 2012, Beijing, China
 - S. Naseem, S. Riaz, A. Hussain, and D. Ghayas, Noise Optimization of Low Power CMOS Charge Amplifier Using Simulation Environment of EldoTM, Presented at International Conference on Advanced Materials and Manufacturing Science (ICAMMS) December 21-21, 2012, Beijing, China
 - S. Hamid, S. Riaz and S. Naseem, Fabrication and Characterization of ZrO₂ Nanoparticles, 6th Vacuum and Surface Sciences Conf. of Asia and Australia, October 9-13, 2012 at Pak. China Friendship Centre, Islamabad, Pakistan.
 - H. Arif, S. Riaz, and S. Naseem, Effect of Temperature on the Threshold Voltage of AlGaN/GaN VHFET on GaN Substrate, 6th Vacuum and Surface Sciences Conf. of Asia and Australia, October 9-13, 2012 at Pak. China Friendship Centre, Islamabad, Pakistan
 - S. Atiq, S. Riaz, M.I. Akram and S. Naseem, Preparation and Characterization of Electrodeposited Aluminum Oxide Thin Films, Presented at 2012 International Conference on Advanced Materials and Manufacturing Science (ICAMMS 2012), Beijing, China, December 20-21, 2012
 - S. Atiq, Z. Ullah, M. Saleem and S. Naseem, Influence of A-site Pb substitution on Structural, Electrical and Magnetic Properties of Sr-Hexaferrites, Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012
 - S. Atiq, M. Saleem, S.A. Siddiqi, S.M. Ramay, and S. Naseem, Origin of Ferromagnetism in TMs doped ZnO Based DMS Materials, Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012

- **2013**

- S. Riaz, M. Khaleeq-ur-Rahman and S. Naseem, A Detailed Investigation into the Preparation and Properties of ZrO₂- Fe₂O₃ Coatings for Bio-Medical Applications, Presented at 40th International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA, April 29 – May 3, 2013
 - S. Naseem and S. Riaz, Preparation and Characterization of CIAGS Thin Films and Their Solar Cells”, Presented at 40th International Conference on Metallurgical Coatings and Thin Films, San Diego, CA, USA, April 29 – May 3, 2013



- A. Akbar, S. Riaz and S. Naseem, Structural and Magnetic Properties of Sol-Gel Deposited Iron Oxide Thin Films”, Presented at National Seminar on Engineering Materials & their Performance, University of the Punjab, April 30, 2013
- F. Majid, S. Riaz and S. Naseem, Low temperature formation of electrodeposited aluminium oxide thin films”, Proc. 2nd International Conference on Bionanotechnology, Nanotechnology and its Applications (ICBNA’2013), London (UK), June 17-18, 2013
- F. Majid, S. Riaz and S. Naseem, Atomic Force Microscopy of electrodeposited aluminium oxide thin films”, Proc. 2nd International Conference on Bionanotechnology, Nanotechnology and its Applications (ICBNA’2013), London (UK), June 17-18, 2013
- S. Riaz and S. Naseem, Fabrication and Magnetic Characterization of Fe₃O₄ Nanotubes and Nanowires”, Presented at International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), Namur, Belgium, July 15 – 19, 2013
- M.S. Akhtar, S. Riaz and S. Naseem, Structural and Optical Properties of Sol-Gel prepared ZnS Dendrites”, International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), Namur, Belgium, July 15 – 19, 2013
- A. Akbar, S. Riaz and S. Naseem, Improved Magnetic Properties of Sol-Gel Derived Fe₃O₄ Nanoparticles for Bio-Medical Applications,
○ International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), Namur, Belgium, July 15 – 19, 2013
- R. Ashraf, S. Riaz and S. Naseem, Magnetic and Magnetization Properties of Spin-deposited undoped ZnO Nanowire Arrays, International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), Namur, Belgium, July 15 – 19, 2013
- M.S. Akhtar, S. Riaz and S. Naseem, Effect of pH on the Optical Properties of Sol-Gel prepared ZnS thin films by Spectroscopic Ellipsometry, International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), Namur, Belgium, July 15 – 19, 2013
- A. Nairan, M. Bashir, A. Ashraf, S. Riaz and S. Naseem, Synthesis and Characterization of SnO₂ Nanoparticles for PV applications, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- M. Imran, F. Majid, S. Riaz and S. Naseem, Optical and Structural Properties of Electrodeposited Aluminum Oxide at Low Temperatures, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- F. Majid, T. Ijaz, M. Farooq, S. Riaz and S. Naseem, Synthesis and Characterization of Sol-gel Deposited Aluminum Oxide at Low Temperatures, 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea



- R. Ashraf, M. Bashir, S. Riaz and S. Naseem, Magnetic and Structural Properties of Co doped ZnO Nanoparticles, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Akbar, M. Imran, S. Riaz and S. Naseem, Synthesis and Characterization of TiO₂ Nanoparticles, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- R. Ashraf, MK. Rehman, S. Riaz and S. Naseem, synthesis and Characterization of ZnO Nanoparticles, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- M. Bashir, A. Ashraf, M. Imtiaz, S. Riaz and S. Naseem, Synthesis and Characterization of ZrO₂-ZnO Nanoparticles, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Akbar, S. Zafar, S. Riaz and S. Naseem, Effect of Al doping on the Structural and Magnetic Properties of Iron Oxide Thin Films, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Akbar, S. Riaz and S. Naseem, Magnetic and Structural Properties of Calcium doped BiFeO₃ Thin Films, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Akbar, S. Atiq, S. Riaz and S. Naseem, Magnetic and Structural Properties of La doped BiFeO₃ Thin Films, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- M. Azam, A. Akbar, S. Riaz and S. Naseem, Electrical Properties of Iron Oxide Nanoparticles Coated Carbon Nanotubes, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Akbar, B. Maria, S. Riaz and S. Naseem, Effect of Magnesium doping on Structural and Magnetic Properties of Iron Oxide Thin Films, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Akbar, S. Riaz and S. Naseem, Effect of Iron Doping on Structural, Optical and Magnetic Properties of TiO₂ Thin Films by Sol-gel Technique, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- 32.A. Butt, S. Riaz and S. Naseem, Synthesis and Characterization of CdS and CdTe Inks for Solar Cells, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea



- A. Azam, U. Khan, S. Riaz and S. Naseem, Structural and Electrical Properties of CIAGS Thin Films, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- S. Batool, S. Riaz and S. Naseem, Structural and Optical properties of CIAGS thin films, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- A. Sadaqat, S. Riaz and S. Naseem, Synthesis and Characterization of CIGS ink for Solar Cells, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- S. Atiq, Z. Ansar, S. Riaz and S. Naseem, Synthesis and Characterization of Magnetic Nanoparticles for Cancer Therapy, Proc. 2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE), August 25-28, 2013, COEX, Seoul, Korea
- S.S. Hussain, S. Riaz and S. Naseem, Preparation and characterization of Cu – ZnTe thin films, World congress on Advances in, Nano, Biomechanics Robotics, and Energy Research (ANBREI3), August, 25-28, 2013, Seoul Korea.

RESEARCH COLLABORATION

- **Indigenous**
 - University of Engineering & Technology, Lahore
 - Lahore College for Women University, Lahore
 - Islamia University Bahawalpur, Bahawalpur
 - Bahauddin Zakaria University, Multan
 - Govt. College University, Lahore
- **Foreign Linkages**
 - School of Chemistry, University of Manchester, UK
 - Chinese Academy of Sciences, China
 - University of South Carolina, USA

CENTRE FOR HIGH ENERGY PHYSICS

- **Publications**

During this period, CHEP faculty published 7 papers; detail is as under:-

- Faisal Akram, Bilal Masud et. al., Phys. Rev. D 87, 013011 (2013). Title: "Vacuum Polarization and Dynamical chiral Symmetry Breaking: Phase Diagrams of QED with Four-Fermion Contact Interaction."
- Ghulam Mustafa, Faisal Akram and Bilal Masud, Communications in Theoretical Physics 59, 324 (2013). Title: Optimization of Neutrino Oscillations Parameters using Differential Evolution Technique.



- Daud Ahmad and Bilal Masud, Abstract and Applied Analysis, Vol 213, Article: ID 645368 (2013)
Title: A Coons patch spanning a finite number of curves tested for variationally minimizing its area.
- Munawar Iqbal, Abdul Wasy, M.A.K. Lodhi, Review of Scientific Instruments, No. 84, Issue 5, May (2013), 056113 Title: Thermal analysis of the long line source electron gun.
- UIHaq, Bakhtiar R. Ahmed, R. Khenata, M. Ahmed, R.Hussain, Materials Science in Semiconductor Processing 16(2013)1162–1169, Title: A first-principles comparative study of exchange and correlation potentials for ZnO.
- Tariq Mahmood, Chuanbao Cao, Muhammad Tahir, Faryal Idrees, Maqsood Ahmed, M. Tanveer, Imran Aslam, Zahid Usman, Zulfiqar Ali, Sajad Hussain, Physica B 420 (2013)74–80, Title: Electronic, elastic, acoustic and optical properties of cubic TiO₂: A DFT approach
- K. H. Rashid, A. A. Zafar, T. Hussain et. al. (BESIII Collaboration), Phys. Rev. Lett. 110, 252001(2013). Title: “Observation of a Charged Charmoniumlike Structure in $e^+e^- \rightarrow \pi^+\pi^-J/\psi$ at $s = 4.26 \text{ GeV}$.”
- K. H. Rashid, A. A. Zafar, T. Hussain et. al. (BESIII Collaboration), Phys. Rev. Lett. 110, 022001(2013), Title: “Observation of Two New N^* Resonances in the Decay $\psi(3686) \rightarrow p\bar{p} \pi^0$.”
- K. H. Rashid, A. A. Zafar, T. Hussain et. al. (BESIII Collaboration), Phys. Rev. D 87, 012003(2013), Title: “Observation of η_c decay into $\Sigma^+\Sigma^-$ and $\Xi^-\Xi^+$ + final states”

● **Conferences, Seminars & Workshops etc.**

Sr.#	Event	Lecture Delivered	Date
1	5th International Meeting on Particles and Fields	<p><u>International</u> E. S. Swanson and M. A.K.Lodhi, USA Adnan Bashir and Alejandro Ayala, Mexico Gernot Eichmann, Austria Viqar Hussain, Canada CHI Yunlong, China Tahsin Babacan, Turkey</p> <p><u>National</u> Riazuddin, Fayyazuddin NCP Kamaluddin, Imran Khan, M. Musa, COMSATS Pervaz Hoodbhoy, Jamil Aslam, QAU Amer Iqbal LUMS Jameel-un-Nabi, GIKI Talib Hussain, Atomic Energy Commission Asim Ali Malik, Imran Jamil, GCU Nosheen Akbar, LCWU</p>	25-29 March 2013
2	Lecture on Cell Phones and Cancer	Eric Swanson Pittsburgh University	29-03-2013
3	Tehrik-e-Pakistan and Quaid-e-Azam	Dr. Muhammad Saleem and Iftikhar A. Chaudhary	25-12-2012



Sr.#	Event	Lecture Delivered	Date
4	Solar Energy (Design and Applications)	Manzoor Sultan	05-03-2013
6	Micro Controllers Hands on Training Workshop		20-24 May 2013

Participation:

- Dr. Munnawwar Iqbal. Invited talk on ‘Thermo-structural analysis of linear filament gun for metallic vapor coatings’ at Changwon National University, February 14, 2013, Changwon, South Korea.
- Dr. Haris Rashid, Dr. Munawar Iqbal, Dr. Ayub Faridi, Dr. Qadeer Afzal and Dr. Abrar Ahmed Zafar participated in 6th Vacuum and Surface Sciences Conference of Asia and Australia (VASCAA-6) October 9-13, 2012, Islamabad.

RESEARCH COLLABORATION

- **Foreign Linkages**

- Beijing Spectrometer III (BESIII) Collaboration: CHEP faculty members: Prof. Dr. Haris Rashid, Dr. Abrar Ahmed Zafar, Dr. Qadeer Afzal Malik and Dr. Talab Hussain are the BESIII members. They continued performing collaborative research in this period.
- Dr. Bilal Masud continued collaborative research with the following researchers abroad:
 - Dr. Eric Swanson, Pittsburg University, USA.
 - Dr. Adnan Bashir, Universidad Michoacana, Morelia, Mexico.

CENTRE FOR UNDERGRADUATE STUDIES

- **Research & Development – An Overview**

- Center has produced more than 21 research articles of good impact factor, published in journals of national and international repute. Book chapters (for international books) were also published.

- **Projects (i) Completed**

Name of Researcher	Sponsoring Agency	Financial Support	Research Area
Dr. Najam-ul-Sehar Afshan	University of the Punjab, Lahore	1,50,000/-	Botany
Ms. Bushra Nisar	-----	1,25,000	Zoology
Ms. Humaira Tariq	-----	1,25,000	English
Ms. Sadaf Aslam	-----	1,25,000	Zoology

- **Projects (ii) Newly Launched**

Name of Researcher	Sponsoring Agency	Financial Support	Research Area
Dr. Najam-ul-Sehar	University of the Punjab, Lahore	1,50,000/-	Botany



Name of Researcher	Sponsoring Agency	Financial Support	Research Area
Ms. Bushra Nisar	-----	1,25000	Zoology
Ms. Humaira Tariq	-----	1,25000	English
Ms. Amara Dar	-----	1,25000	Chemistry
Ms. Sadaf Aslam	-----	1,25000	Zoology

- Publications : Book Chapter Published**

Author	Title	Journal	Volume	Publishing Agency
Ms. Shabnum Javed	Aleo Vera Gel in Good, Heal Products and Cosmetics Industry	Studies in Natural Products Chemistry	41(1)	Elsevier Science Publisher (Netherlands)

- Conferences, Seminars & Workshops etc.**

Ms. Shabnum Javed	Herbal medicine in control of cardiovascular disease	4 th International symposium-Cum-Training course on Molecular Medicine and Drug Research (MMDR 4)	Conference Proceedings
Ms. Ammara Dar	Biosorption and elimination of Sulphides from Tannery waste using rice husk	International conference on Environmental and Physical Chemistry (9-11 th September, 2013, held at Nathiagalli, KPK),	Oral presentation
	Workshop on Fourier Transform infrared Spectroscopy	Workshop held on 1 st July, 2013 at Interdisciplinary Research Centre in Biomedical Material, CIIT Lahore	One day Workshop

- Research Journals**

Sr. No.	Author	Title	Journal	Volume	Page Numbers
1.	Ms. Bushra Nisar	Serum Chemistry variable of Bengali tiger kept in various form of captivity	Pakistan Veterinary Journal	32(2)	283-285
2.		Impact of captivity on social behavior of chimpanzee at Lahore zoo Pakistan.	The Journal of Animal and plant Sciences	23(3)	779-785
3.	Dr. Najam-ul-Sehar Afshan	New records of <i>Puccinia</i> species on Poaceae from Pakistan.	Mycotaxon	120	407-413
4.		Three new <i>Caecoma</i> species on Rosa spp. from Pakistan.	Mycotaxon	120	239-246
5.		Some additions to the Uredinales (rust fungi) of fairy meadows northern areas of Pakistan.	Journal of yeast and Fungal Research	3(5)	65-73



Sr. No.	Author	Title	Journal	Volume	Page Numbers
6.	Ms. Shabnum Javed	Comparative studies on the hypocholesterimic effect of branded and conventional yogurt	Health MED	7(1)	92-97
7.		Essential Oils and Lattices and Novel Antiviral Agents against Potato Leaf Roll virus and analysis of Their Phytochemical Constituents Responsible for Antiviral Activity	Journal of Microbiology Research	7(24)	3071-3077
8.		Hypoglycemic and hypolipidemic effects of Cephalotaxus sinensis in STZ-induced diabetic rats	Journal of Medicinal Plants Research	7(19)	310-316
9.		In Vitro Comparative Screening of Antibacterial and antifungal activities of some common weeds extracts	Pak. J. Weed Sci. Res.	18(1)	15-25
10.		Comparative antimicrobial activity of clove and fennel essential oils against food borne pathogenic fungi and food spoilage bacteria	African Journal of Biotechnology	11(94)	6065-16070
11.	Ms. Amara Dar/Arooj Nasir	A sample spot test quantification Method to determine formaldehyde in aqueous samples	Journal of Saudi chemical society.	Ref. No. JSCS – D-12-00160-R	
12.	Mr. Muhammad Younis	Construction of m-Point Binary Approximating Subdivision Schemes	Applied Mathematics Letters	26(3)	337-343
13.		The First Integral Method for Time-Space Fractional Differential Equations	Journal of Advanced Physics,	2(3)	220-223
14.		A Five-Point C^4 Non-stationary Scheme	Journal of Basic and Applied Scientific Research	3(1)	53-61
15.		The Quaternary Interpolating Scheme for Geometric Design	ISRN Computer Graphics		
16.		The m-Point Quaternary Approximating Subdivision Schemes	American Journal of Computational Mathematics	3(1A)	6-10



Sr. No.	Author	Title	Journal	Volume	Page Numbers
17.	Mr. Muhammad Younis/Mr. Asim Zafar	Travelling Wave Solutions of Fractional Order Coupled Burgers' Equations by (G'/G)-Expansion Method	American Journal of Computational and Applied Mathematics	3(2)	81-85
18.		The Modified Simple Equation Method for Solving Nonlinear Phi-four Equation	International Journal of Innovation and Applied Studies	2 (4)	661-664
19.	Mr. Asim Zafar	$Q(\sqrt{m}) \setminus Q$ under the action of $PSL(2, Z) \cap \langle x, y : x^2 = y^6 = 1 \rangle$	Journal of Applied Sciences, Engineering and Technology	5(6)	1916-1922
20.		Quadratic Irrationals under the action of subgroups of hecke group $H(\sqrt{3})$.	Journal of basic and Applied Scientific Research	3(2)	115-122
21.		G-subsets of an Invariant subset $Q^*(\sqrt{k^2 m})$ of $Q(\sqrt{m}) \setminus Q$	Under the Modular Group action, Utilities Mathematics	91	377-387

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES

• **Research & Development – An Overview**

The projects in the CEES during the year 2012-2013 were on removal of heavy metals and toxic organic from waste water and textile effluents using phytoremediation, biosorption and other techniques. One particular group is carrying out research in Solid Waste Management and monitoring using GIS and RS techniques others include management of waste materials and total recycling of waste materials. One group is dealing with Environmental Management Systems for industry, hospitals and the building sector. The use of organisms in environmental biotechnology is also under way.

• **Projects (i) Completed**

- Bioaccumulation of Chromium (VI) in Various Organs of Poultry Farm Chicken. (Dr. Nadia Naveed)
- Impacts of human activities on Macro-invertebrate diversity in highly polluted River Ravi, Pakistan. (Dr. Abdul Qadir)
- Ozonation set-up for decolorization of textile dyes (Dr. Irfan Ahmad Shaikh)



- The Effects of improper Solid Waste Dumpint at saggian, Lahore and subsequent leaching of Heavy metals into the River Ravi Lahore. (Ms. Soniya Munir)
- Installation of Biogas Digester in CEES, Punjab University, Lahore (Ms. Mariyam Zameer)
- Antioxidant and antimicrobial activities in vitro evaluation of honey samples from the ecosystems of Northern and plain areas of Pakistani vegetation (HEC-June 2013 Submitted). (Ms Mariyam Zameer)
- Evaluation of Drinking Water Quality of Lahore City. (Durr-e-Shahwar & Khadija Silvia Machado)
- **Projects (ii) Newly Launched**
 - Control of leaching hazard and root to shoot partitioning of different heavy metals in some hyperaccumulator plants under the effect of chelating agents (Under process). (Prof. Dr. Firdaus-e-Bareen)
 - Detoxification of industrial sludge using aquatic plants and indigenous microbes (Under process). (Prof. Dr. Firdaus-e-Bareen)
 - Role of EDTA in enhancement of uptake of different heavy metals and their roots to shoot translocation in plants grown hydroponically. (Prof. Dr. Firdus-e-Baree)
 - Environmental friendly production of statins and their applications in food quality improvement. (Prof. Dr. M. Nawaz Ch.)
 - The Proper Utilization of Aggregates and Sustainable Development of Resources in Kirana Hills area, Punjab Province. (Dr. Zahid Karim Khan)
 - Investigating Declining Groundwater Resource of Lahore City of about 1 Crore Population using Modeling Technique. (Dr. Iftikhar Ahmad)
 - Monitoring the efficiency of wastewater treatment through un-conventional testing techniques. (Dr. Irfan Ahmed Shaikh)
 - Impacts of human activities on Macro-invertebrate diversity the River Ravi, Pakistan. (Dr. Abdul Qadir)
 - Effects of Pops Pesticides on Women Cotton-Pickers in Cotton Fields Of Multan District, Pakistan. (Dr. Abdul Qadir).
 - Assessment of habitat and biotic condition of river Chenab in Bajwat, Pakistan. (Dr. Abdul Qadir).
 - Estimation of Residual amounts of oxytocin in bovine's milk samples and blood serum of human female (Under Process). (Dr. Nadia Naveed)
 - To Identify the Challenges and Opportunities in Hospitality and Tourism Industry: A Case Study of Northern Areas of Pakistan. (Mr. Muhammad Kamran)
 - Identification of acid rain's effects and the concentration of Carbon and Nitrogen in the soils of Pakistan (Punjab). (Dr. Syed Hussain Haider Rizvi)



- Removal of VOCs from Polluted Air Stream with Corrugated Sheet and other cost Adsorbent. (Hafiz Muhammad Hamid Raza)
- Life Cycle Assessment of the Solid Waste Management with regard to Greenhouse Gases Emissions: Case study of Ravi Town, Lahore. (Ms. Soniya Munir)
- Development of Constructed Wetlands (CWs) Integrated with Advanced Oxidation Processes (AOPs) for Treatment of Wastewater. (Ms. Shazia Ilyas)
- Evaluation of Drinking Water Quality of Lahore City. (Ms. Dur-e-Shahwar & Ms. Khadija Silvia)
- Molecular characterization of heavy metals resistant bacteria from industrial effluents and their health impacts. (Ms. Mariyam Zameer)
- **Publications**
 - Gulzar, S., Chaudhry, M.N. and Berg, J. P. (2012). Chemical and Mineralogical Characterization of Old Mortars from Jahangir Tomb, Lahore-Pakistan. Pakistan. Asian Journal of Chemistry, 25(1): 133-138. (Impact Factor:0.266).
 - Chaudhry M.N. (2012). Evaluation of Ground water quality for irrigation and drinking purposes of the areas adjacent to Hudaira Industrial Drain, Lahore, Pakistan, Pakistan Journal of Agri. Science. 49(4)
 - Chaudhry, M.N., Jadoon, A., Batool, S.A. (2013). Assessment of factors affecting household solid waste generation and its composition in Gulberg Town, Lahore. Pakistan. Journal of Material Cycles and Waste Management. doi:10.1007/s10163-013-0146-5 (online) (Impact Factor: 0.568).
 - Chaudhry, M.N., Noman, M., Batool, S.A. (2013). Economic and employment potential in textile waste management of Faisalabad. Waste Management and Research, 31(5): 485-493. (Impact Factor: 1.047).
 - Chaudhry, M.N., Saima, S. and Zahida, P. (2013). Repellency, Fumigant and contact toxicities of essential oils of selected species from family Myrtaaceae against Tribolium castaneum. Journal of Medicinal Plants Research. Vol 7
 - Chaudhry, M.N., Gulzar, S., Burg, J.P and Saeed, S.A. (2013). Characterization of Mughal Bricks from Jahangir Tomb, Lahore, Pakistan. Asian Journal of Chemistry, 25(6): 3255-3258 (Impact Factor: 0.253).
 - Chaudhry, M.N., Haq, A. Burg, J.P. and Majid, C.M. (2013). Geology, Seismicity and seismic Risks Assessment of Eastern Salt Range, Punjab-Pakistan. Pakistan Journal of Sciences, 65(1): 63-68.
 - Chaudhry, M.N., Bhatti, J.J., Haq, A. (2013). Alkali Silica Reaction (ASR) Potential of Sand and Gravels from NW-Himalayan Rivers and their performance as concrete aggregate at three Dams in Pakistan. Pakistan Journal of Science, 65(2).
 - Chaudhry, M.N. and Hassan, A., (2013). A Powerful Approach for the Isolation and Identification of Probiotic Bacteria from Indigenous Products of Lahore, Pakistan. Journal of Clinical Microbiology, 51(8) (Impact Factor: 4.153)



- Chaudhry, M.N., Dogar, N.A., and Majid, C.M. (2013). Characterization and Treatment of Wastewater from Sapphire Textile Industry, Pakistan. *Journal of Scientific & Innovative Research* Vol 2 (Impact Factor: 1.0)
- Chaudhry, M. N., Imran, M. A., Khan, M. R., Ali, Z and Mahmood, T. (2013). Toxicity of arsenic (As) on seed germination of sunflower (*Helianthus annuus* L.). *International Journal of Physical Sciences*, 8(7) (Impact Factor: 0.73)
- Mahmood, K., Batool, S. A., Rana, D. A., Tariq, S., Ali, Z. and Chaudhry, M. N. (2013). Assessment of leachate effects to the drinking water supply units in the down slope regions of Municipal Solid Waste (MSW) dumping sites in Lahore Pakistan. *International Journal of Physical Sciences*, 8(28): 1470-1480.
- Sidra, S, Ali, Z, and Chaudhry, M. N. (2013). Avian Diversity at New Campus of Punjab University in relation to land use change. *Pakistan J. Zool.*, 45(4): 1069-1082.
- Sheikh, R.A. and Jamil, A. (2013). An overview of Neoproterozoic Reservoirs in Pakistan. *Geological Society of London*.
- Jamil, N., Ahsan, N. and Shafique, U. (2012). Lawrencepur Sand – A highly efficient adsorbent for the removal of Cr (VI) from waste water. *Journal of Chemical Society of Pakistan* 34(1): 81-88.
- Shafique, U., Ijaz, A., Salman, M., Zaman, W., Jamil, N., Rehman, R. and Javaid, A. (2012). Removal of arsenic from Water using pine leaves. *Journal of Taiwan Institute of Chemical Engineers* 43: 256-263.
- Qadir, A., Eqani, S.A.M.A.S., Malik, R. N., Cincinelli, A., Zhang, G., Ashiq, M.A. Rashid, Bokhari, H., Jones, K.C. and Katsoyiannis, A. (2013). Uptake of organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) by river water fish: The case of River Chenab *Science of the Total Environment*, 450- 451 (Impact Factor: 3.789)
- Qadir, A., Safdar A. Anwar, M., Mahdi, M. and McKenry, M.V. (2013). Survey of Plant-Parasitic Nematodes Associated With Four Vegetable Crops Cultivated Within Tunnels. *Pakistan Journal of Zoology*, 45(3): 595-603 (Impact Factor: 0.338).
- Eqani, S A., Malik, R. N., Cincinelli, A., Zhang, G., Li, X., Mohammad, A., Qadir, A., Rashid, A., Bokhari, H., Jones, K.C. and Katsoyiannis, A. 2013. Uptake of organochlorine pesticides (OCPs) and 1 polychlorinated biphenyls (PCBs) by River water fish-The case of River Chenab. *Science of the total Environment*, 15: 3-91.
- Qadir, A., Anwar, S. A., Jamil, N. and Sabir, A. M. (2013). Potential effects of human and climate change on freshwater resources in Pakistan. *Understanding Freshwater Quality Problems in a Changing World Proceedings of H04, IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden, July 2013 (IAHS Publ. 361, 2013). 329-335.*



- Safdar A. Anwar, M. M. Mahdi, M. V. McKenry and Qadir, A. (2013). Survey of Plant-Parasitic Nematodes Associated With Four Vegetable Crops Cultivated Within Tunnels. *Pakistan J. Zool.*, 45(3): 595-603.
- Mukhtar, M. K., Irfan, M., Tahir, H.M., Khan, S.Y., Ahmad, K. R. Qadir, A. and Arshed, M., (2012). Species Composition and Population Dynamics of Spiders Fauna of *Trifolium* and *Brassica* Fields. *Pak. J. Zool.*, 44: 1261-1267.
- Mukhtar, M.K., Khan, S. Y., Jabeen, S., Tahir, H. M., Qadir, A., Ahmad, K. R., Butt, A. and Arshad, M. (2012). A Preliminary Checklist of the Spider Fauna of Sargodha (Punjab), Pakistan. *Pakistan J. Zool.*, 44: 1245-1254.
- Ilyas, S. and Khan, S.J. (2013). Impact of nitrogen loading rates on treatment performance of domestic wastewater and fouling propensity in submerged membrane bioreactor (MBR) *Bioresource Technology*, 141 (Impact Factor: 4.75)
- Ilyas, S., Chaudhry, M.N. and Lateef, A. (2013). Biological treatment of dairy wastewater using activated sludge process. *Science Asia*, 39 (Impact Factor: 0.398).
- Ilyas, S., Khattak, A., Ahmed, N. Qazi, M.A., Chaudhary, M.N., Naseem, U. Lateef, S., Khan, M.S.A and Iqbal, N. (2013). Quality comparison of different composts registered by government of the Punjab under FCO 1973. *Journal of Agriculture Research Vol 51*
- Zameer, M., Hanif, S., Sheikh, I.A. Akram, W. and Anjum, T. (2012). Isolation and Management of Drinking Water Mycoflora by Ozone treatment. *Mycopath* 10(1).
- Zameer, M., Jamil, N., Khan, S.M., Ahsan, N., Anwar, J., Qadir, A. and Shafique, U. (2013). Removal of direct red 16 (Textile Dye) form industrial effluent by using Feldspar. *Journal of the Chemical Society of Pakistan* (Impact Factor: 1.40).
- Zameer, M. (2013). Knowledge, Attitudes and Practices study of dengue viral infection and its Association with Environmental factors and Health Issues, Lahore Pakistan (Impact Factor: 0.30).
- Chaudhry, M.M., Haq, A., Chaudhry, M.N. and Burg, J.P. (2013). Geology, Seismicity and seismic Risks Assessment of Eastern Salt Range, Punjab-Pakistan. *Pakistan Journal of Sciences*, 65.
- Chaudhry, M.M., Bhatti, T.J, Chaudhry, M.N. and Haq, A. (2013). Alkali Silica reaction (ASR) Potential of Sand and Gravels from NW-Himalayan Rivers and their Performance as Concrete Aggregate at Three Dams in Pakistan. *Pakistan Journal of Science*, 65.
- Chaudhry, M.M., Dogar, N.A. and Chaudhary, M.N. (2013). Characterization and Treatment of Wastewater from Sapphire Textile Industry, Pakistan. *Journal of Scientific & Innovative Research*, 2.
- **Conferences**
 - Chaudhry, M. N., 2012, Case Study and Lessons Learnt from October 8th 2005, Pakistan Earthquake, Remembrance Day of October 08, 2005 Muzaffarabad Earthquake, October 08, 2012. Jointly organized by CIIT, Islamabad and Pakistan Academy of Sciences (PAS).



- Chaudhry, M. N., and Syeda Adila Batool, 2013. The Impact of Municipal Solid Waste on Green House Gas Emissions in Pakistan. 1st International Conference on Global Environmental Changes.
- Qadir, A., Anwar, S.A., Jamil, N. and Sabir, A.M., July 2013 (IAHS Publ. 361, 2013). Understanding Freshwater Quality Problems in a Changing World Proceedings of H04, IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden. Potential effects of human and climate change on freshwater resources in Pakistan.
- Ahsan, N., Jamil, N., Shah, M.M. and Saif-ur-Rehman, 30th IAS Meeting of Sedimentology 2nd-5th September 2013, T7S1_P32 Mechanism of dolomite formation in Kawagarh Formation (Late Turonian to Lower Maastrichtian), Hazara Basin, NW Lesser Himalayas, Pakistan: Integrating petrographic, geochemical and isotopic studies
- Qadir, A., Bhatti, N.S., Ali, H., Suchentrunk, F. and Anwar, S. 2012. Accumulation of chromium, lead and cadmium in *Lepus nigricollis* distributed in Punjab, Pakistan. Source:-4th World Lagomorph Conference; JULY 23-27, 2012; Vienna, AUSTRIA. BOKU-Reports on Wildlife Research and Game Management. 20: 101-10.
- Sabir, A.M., Akhter, M., Haider, I. and Qadir, A., 2012. Khapra Beetle: A Menace For Rice Export. PC-26. 32nd Pakistan Congress of Zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore,
- Sabir, A.M., Qadir, A. Suhail, A., Rafi, M. A. and Asghar, M. 2012. Effect of weather on foraging flights of bumblebees (Apidae: Hymenoptera) in Northern, Pakistan ENT-21. 32nd Pakistan Congress of Zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore.
- Anwar, S. A. and Qadir, A. 2012. Losses caused by plant-parasitic nematodes on vegetable crops. 32nd Pakistan Congress of Zoology (International Congress) March 6 – 8, 2012 held at GC University, Lahore.
- Mariyam Zameer, attended “Composting Techniques” (one day conference) at NUST, Islamabad on March 2013.
- Muhammad Shafiq, attended “Composting Techniques” (one day conference) at NUST, Islamabad on March 2013.
- Mariyam Zameer, attended “Environmental Issues” (one day Conference/ Seminar) at Kinnaird College for Women Lahore on 7th of May, 2013.
- **Seminars:**
 - World Environment Day 5th June, 2013, The World Environment Day was celebrated by the CEES in the form of a one day seminar on 5th June, 2013.
 - World Tourism Day 27th September, 2013, The World Tourism Day was celebrated by the CEES in the form of a one day seminar on September 27, 2013.



RESEARCH COLLABORATION

- **Indigenous**
 - WWF, PAKISTAN.
 - Ministry of Science and Technology, Lahore.
 - University of Health Sciences, Lahore.
 - CAMB, Lahore.
 - CEMB, Lahore.
 - PCSIR Laboratories, Lahore.
 - NUST, Islamabad.
 - UVAS, Lahore
- **Foreign Linkages**
 - Soil Microbiology Division, University of Cornell, New York, Ithaca, USA.
- **Funding Grants for R&D**
 - A grant of Rs. 1.2 Million was sanctioned by the Vice Chancellor for constructing a Greenhouse and an Ecotoxicology Animal House in the College premises. They are under construction currently.

COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES

- **Research & Development – An Overview**
 - Research and Development is the integral part of the curricula of all our academic programs. 80 to 90 percent students of academic programs opt the research & report writing (as a paper titled 'Thesis') during the last semester. However, internships are also done by the students. Research and report writing for M.Phil and PhD scholars is mandatory. Software relating to Research and development are available as well as hardware.
- **Publications**
 - Khan, R.A. and Kamal, S. (2013). Generalization of Random Intercept Multilevel Models. Pakistan Journal of Statistics and Operation Research. 9, No. 2, 205-211.
 - Khan, R.A. and Kamal, S. (2013). Random Intercept and Random Step2-Levels Multilevel Models. Pakistan Journal of Statistics and Operation Research. 8, No. 4, 777-788.
 - Khan, R.A. and Kamal, S. (2013). Random Intercept and Random Slpe k-levels Multilevel Models. European Journal of Scientific Research. 99, No. 2, 184-193.
 - Khan, R.A. and Kamal, S. (2013). Random Intercept and Random Slope 3-Levels Multilevel Models. Caspian Journal of Applied Sciences Research. 2, No. 2, 74-87.
 - Khan, R.A. and Kamal, S. (2012). Random Intercept and Random Slpe Multivariate Multilevel Models. Science Series Data Report. 10, No. 4, 1-11.



- Chand, S. and Kamal, S (2013). Bootstrap Power of Time Series Goodness-of-Fit Tests. Pakistan Journal of Statistics and Operation Research. 9, No. 2, 155-170.
- Chand, S., Farooqi, A.A., and Munir, M.F. (2013). Factor Model of Parenting Style Using Exploratory and Confirmatory Factor Analysis. Middle East Journal of Scientific Research, 15, No.7, 1028-1034.
- Iqbal, F. and Chand, S. (2013). Efficient bootstrap forecast intervals or return and volatility: Using the linear estimator of ARCH models. Middle-East Journal of Scientific Research. 14, No.11, 1502-1507.
- Chand, S. and Aftab, N. (2012). On Finite Sample Distribution of Quasi Test Statistics Based on Heteroskedastic Consistent Covariance matrix Estimators. Middle-East Journal of Scientific Research. 12, No.8, 1157-1164.
- Haq, A. and Chand, S. (2012). Pattern and Impact of Facebook usage on academic performance of students in higher education. Bulletin of Education and Research, 34 No.2, 19-28.
- Shah, G.H., Shabbir F., Saeed N. and Kamal S. (2013). Risk Factors for childhood Blindness in Punjab, Pakistan. European Journal of Scientific Research (EJSR - ISI indexed, impact factor : 0.736), 98, No.4: 569-579.
- Shahzadi, A. Akhter, A.S. and Saf, B. (2013). Regional Frequency Analysis of Annual Maximum Rainfall in Monsoon Region of Pakistan using L-moments. Pakistan Journal of Statistics and Operation Research. 9, No. 1, 111-136.
- Zaka, A. and Akhter, A.S. (2013). Methods for Estimating the Parameters of the Power Function Distribution. Pakistan Journal of Statistics and Operation Research. 9, No. 2, 213-224.
- Khurshid, A., Al-Hemari, Z.A. and Kamal, S. (2012). On Complex Random Variables. Pakistan Journal of Statistics and Operation Research. 8, No. 3, 645-654.
- Aslam, M., Gilani, G.M., Hussain, D., and Ali, S. (2012). Statistical Analysis of the TM-Model via Bayesian Approach. Pakistan Journal of Statistics and Operation Research. 8, No. 4, 849-857.
- **Conferences, Seminars & Workshops etc.**
 - Various workshops were arranged for the students of M.Sc. Actuarial Sciences, M.Sc. Statistics and MIOM during the year 2012-2013.
- **Research Journals**
 - Regularly publishing a quarterly research journal 'Pakistan Journal of Statistics and Operation Research' since 2005

RESEARCH COLLABORATION

- **Indigenous**
 - State Bank of Pakistan, HEC, FBS
- **Foreign Linkages**
 - Department of Clinical Immunology, Goteborg University, Sweden.



- **Funding Grants for R&D**

- A grant of Rs.4,30,000 was received for the Pakistan Journal of Statistics and Operation Research (PJSOR)

DEPARTMENT OF GEOGRAPHY

- **Research & Development – An Overview**

- Department of Geography was formerly established at the University of the Punjab in October 1944, at its Old campus. Later it was shifted to its new campus i.e. Quaid-e-Azam Campus in 1965. At the time of independence Geography Department was offering graduate work at Master level. The department is now offering new programs like BS, M.Phil/MS Geography and PhD.
- Seminar Library is available online.
- Laptops are provided to faculty members by the department.
- Pakistan Geographical Review (PGR), A research Journal of the department is available online.

- **Publications**

The following research papers were published by the faculty of this Department during 2012-13:-

- Ghaffar, A., Shirazi, S.A., "Remote Sensing and GIS Applications for Monitoring and Assessment of the Urban Sprawl in Faisalabad-Pakistan" Pakistan Journal of Science, Vol. 64 No.3, September 2012 (HEC recognized).
- Ghaffar, A., Shirazi, S.A., "Spatio-temporal Patterns of Urban Growth in Faisalabad-Pakistan: A GIS Perspective" Journal of the Research Society of Pakistan, Vol. 49 No.1, June 2012 (HEC recognized).
- Ghaffar, A., Butt, I., "Application of GIS in the spatial Analysis of Swans in Faisalabad" Journal of the Urban Affairs, Vol. 35 (HEC recognized-ISIJCR) International.
- Bhalli, M. N., Ghaffar, A., Shirazi, S.A., Anwar M. M. (2012) "Change Detection Analysis of Land Use by using Geospatial Techniques: A Case Study of Faisalabad- Pakistan" Journal the "Science International", ISSN 1013?5316; CODEN: SINTE 8Sci.Int.Lahore,24(4),539??546,2012 (HEC recognized)
- Praveen, N., Ghaffar, A., Shirazi, S.A., Bhalli M.N. (2012) "Spatial Distribution of Heavy Metal Contamination in Road Side Soils of Faisalabad-Pakistan" Pakistan Journal of Science, Vol. 64 No. 4 December, 2012 pp.309-315, Lahore (HEC recognized)
- Shafqaat Anjum, Abdul Ghaffar and Ibtisam Butt (2013): Application of GIS in the spatial analysis of slums in Faisalabad, Science International Lahore. Vol. 25, No. 3.
- Mirza, A. I., Kazmi J.H, and Shirazi, S.A., (2013) "Identification and Analysis of a Sustainable System of Road Traffic Pattern in Lahore City", Pakistan Journal of Science, Vol. 65 No. 3 Sept., 2013 pp.420-425 Lahore (HEC recognized)



- Mirza, A. I., Kazmi J.H, and Shirazi, S.A., (2013): "Spatio-periodic Monitoring and Analysis of Atmospheric Sulphur Dioxide(CO₂) in the Metropolitan Areas of Lahore-Pakistan" Pakistan Journal of Science, Vol. 65 No. 1 March, 2013 pp.83-89 Lahore (HEC recognized)
- Shirazi, S.A and Kazmi, J. H (2013): "Appraisal of the Change in Spatio-temporal Patterns of LULC and its Impacts on the Vegetation of Lahore, Pakistan" ". "Pakistan Vision" Vol.14 No.1 June, 2013 pp.25-44, Journal of Pakistan Study Center, University of the Punjab, Lahore (HEC recognized)
- **Research Journals**
 - The prestigious Pakistan Geographical Review is being published since 1942 and is available online.

RESEARCH COLLABORATION

- **Indigenous**
 - Thesis and Research Reports are regularly carried out by the students of this department and are available in Seminar Library. The faculty of this department is supervising research thesis/reports not only of their own students but also various other post-graduate departments of the Punjab.
- **Funding Grants for R&D**
 - University of the Punjab

DEPARTMENT OF MATHEMATICS

- **Research & Development – An Overview**
 - Department of Mathematics organized a series of departmental seminars from October 2012 - September 2013. Prof. Dr. Muhammad Sharif, Prof. Dr. Malik Zawwar Hussain, Dr. Muhammad Aslam Malik and Dr. Ghazala Akram presented papers in different National and International conferences. During the above mentioned period, the detail of enrolled students is: 29 in Ph.D., 37 in M.Phil., 133 students in M.Sc. (Morning), 118 students in M.Sc. (Evening), 110 in BS.
 - 02 Ph.D. Students, 08 M.Phil. Students, 06 MS students, 102 M.Sc. students and 22 BS Students completed their degrees during the said period. M.Phil./MS/ Ph.D. students are doing research in different fields under the supervision of Prof. Dr. Muhammad Sharif, Prof. Dr. Malik Zawwar Hussain, Dr. Muhammad Aslam Malik, Dr. Ghazala Akram and Prof. Dr. Shahid S. Siddiqi (Retired).
 - In Departmental seminar, nine faculty members and thirty four M.Phil. / MS/ Ph.D. scholars delivered lectures.
 - Departmental Library has been enriched by adding 175 books relevant to Mathematics and 17 new research Journals during this period.

**• Publications**

- M. Sharif and Z. Yousof, Expansionfree Cylindrically Symmetric Models: Can. J. Phys. 90(2012)865-870 (Canada).
- M. Sharif and Wajihah Javed, Fermions Tunneling from Charged anti-de Sitter Black Holes: Can. J. Phys. 90(2012)903-909 (Canada).
- M. Sharif and Sadia Arif, Non-Vacuum Static Cylindrically Symmetric Solution and Energy Distribution in $f(R)$ Gravity: Astrophys. Space Sci. 342 (2012) 237-243 (Springer).
- M. Sharif and Saira Waheed, Cosmic Evolution in Self-interacting Brans-Dicke Cosmology: J. Phys. Soc. Jpn. 81(2012)114901 (Japan).
- M. Sharif and M.Z. Bhatti, Structure Scalars for Charged Cylindrically Symmetric Relativistic Fluids: Gen. Relativ. Gravit. 44(2012)2811-2813 (Springer).
- M. Sharif and M. Zubair, Anisotropic Universe Models with Perfect Fluid and Scalar Field in $f(R,T)$ Gravity: J. Phys. Soc. Jpn. 81(2012)114005 (Japan).
- M. Sharif and Rabia Saleem, Dark Energy Models and Laws of Thermodynamics in Bianchi I Model: Mod. Phys. Lett. A 27(2012)1250187 (World Scientific).
- M. Sharif and M. Zubair, Evolution of the Universe in $f(R)$ Gravity: Astrophys. Space Sci. 342(2012)511-520 (Springer).
- M. Sharif and Sehrish Azeem, Cosmological Evolution for Dark Energy Models in $f(T)$ Gravity: Astrophys. Space Sci. 342(2012)521-530 (Springer).
- M. Sharif and Saira Waheed, Cosmic Acceleration and Brans-Dicke Theory: J. Exp. Theor. Phys. 115(2012)599-61 (Springer).
- M. Sharif and Saira Waheed, Brans-Dicke Chameleonic Cosmology and Cosmic Evolution: Int. J. Mod. Phys. D 21(2012)1250082 (World Scientific).
- M. Sharif and M. Azam, Stability of Thin-Shell Wormholes in Nonlinear Electrodynamics: J. Phys. Soc. Jpn. 81(2012)124006 (Japan).
- M. Sharif and Wajihah Javed, Charged Fermions Tunneling from Regular Black Holes: J. Exp. Theor. Phys. 115(2012)782-788 (Springer).
- M. Sharif and R. Manzoor, Electromagnetic Wave Propagation with Negative Phase Velocity in Regular Black Holes: J. Exp. Theor. Phys. 115(2012)986-990 (Springer).
- M. Sharif and Z. Yousof, Evolution of Expansion-free Self-gravitating Fluids and Plane Symmetry: Int. J. Mod. Phys. D 21(2012)1250095 (World Scientific).
- M. Sharif and M.Z. Bhatti, Gravitational Binding Energy in Charged Cylindrical Symmetry: Can. J. Phys. 90(2012)1233-1236 (Canada).
- M. Sharif and M. Zubair, Energy Conditions Constraints and Stability of Power Law Solutions in $f(R,T)$ Gravity: J. Phys. Soc. Jpn. 82(2013)014002 (Japan).



- M. Sharif and Wajiha Javed, Fermions Tunneling for Traversable Wormholes: *Can. J. Phys.* 91(2013)43-47 (Canada).
- M. Sharif and G. Abbas, Dynamics of Shearfree Dissipative Collapse in $f(G)$ Gravity:, *J. Phys. Soc. Jpn.* 82(2013) 034005 (Japan).
- M. Sharif and Saira Waheed, Noether Symmetries of Some Homogeneous Universe Models in Curvature Corrected Scalar-Tensor Gravity: *J. Cosm. Astropart. Phys.* 02(2013)043 (IOP, UK).
- M. Sharif and Saira Waheed, Energy Conditions in a Generalized Second-Order Scalar-Tensor Gravity: *Advances High Energy Phys.* 2013(2013)253985 (Hindawi Publishing Corporation).
- M. Sharif and Rubab Manzoor, Electromagnetic Plane Waves with Negative Phase Velocity in Charged Black Strings: *J. Exp. Theor. Phys.* 116(2013)223-228 (Springer).
- M. Sharif and G. Abbas, Singularities of Noncompact Charged Objects: *Chin. Phys. B.* 22(2013)030401 (China).
- M. Sharif and H. Ismat Fatima, Charged Anisotropic Static Cylindrically Symmetric Models: *Can. J. Phys.* 91(2013)113-119 (Canada).
- M. Sharif and Wajiha Javed, Thermodynamics of Charged NUT Accelerating Rotating Black Holes: *Can. J. Phys.* 91(2013)236-241 (Canada).
- M. Sharif and A. Jawad, Thermodynamics in Closed Universe with Entropy Corrections: *Int. J. Mod. Phys. D* 22(2013)1350014 (World Scientific).
- M. Sharif and S. Rani, Generalized Teleparallel Gravity Via Some Scalar Field Dark Energy Models: *Astrophys. Space Sci.* 345(2013)217-223 (Springer).
- M. Sharif and Zuriat Zahra, Static Plane Symmetric Interior Solutions in $f(R)$ Gravity: *Mod. Phys. Lett. A.* 28(2013)1350041 (World Scientific).
- M. Sharif and Abdul Jawad, Analysis of Pilgrim Dark Energy Models: *Eur. Phys. J. C* 73(2013)2382(Springer).
- M. Sharif and M. Azam, Stability Analysis of Thin-Shell Wormholes from Charged Black String: *J. Cosm. Astropart. Phys.* 04(2013)023 (IOP, UK).
- M. Sharif and M. Azam, Stability of Anisotropic Cylinder with Zero Expansion: *Mon. Notices Roy. Astron. Soc.* 430(2013)3048-3053 (OUP).
- M. Sharif and Wajiha Javed, Fermions Tunneling from Plebanski-Demianski Black Holes: *Gen. Relativ. Gravit.* 45(2013)1051-1068 (Springer).
- M. Sharif and M. Azam, Mechanical Stability of Cylindrical Thin-Shell Wormholes: *Eur. Phys. J. C* 73(2013)2407 (Springer).
- M. Sharif and M. Azam, The Stability of a Shearing Viscous Star with an Electromagnetic Field: *Chin. Phys. B.* 22(2013)050401 (China).



- M. Sharif and M. Zubair, Cosmology of Holographic and New Agegraphic $f(R,T)$ Models; J. Phys. Soc. Jpn. 82(2013)064001 (Japan).
- M. Sharif and Rabia Saleem, Thermodynamics in Non-linear Electrodynamics with Anisotropic Universe: Astrophys. Space Sci. 345(2013)373-380 (Springer).
- M. Sharif and M. Zubair, Analysis of $f(R)$ Theory Corresponding to NADE and NHDE: Advances High Energy Phys. 2013(2013)790967 (Hindawi Publishing Corporation).
- M. Sharif and Rabia Saleem, Thermodynamics with Interacting Dark Energy in Magnetic Universe: J. Phys. Soc. Jpn. 82(2013)064006 (Japan).
- M. Sharif and M. Azam, Spherical Thin-Shell Wormholes and Modified Chaplygin Gas: J. Cosm. Astropart. Phys. 05(2013)025 (IOP, UK).
- M. Sharif and Z. Yousaf, Electromagnetic Field and Dynamical Instability of Cylindrical Collapse in $f(R)$ Gravity: Mon. Notices Roy. Astron. Soc. 432(2013)264-273 (OUP).
- M. Sharif and Rabia Saleem, Thermodynamics in Kaluza-Klein Universe: Mod. Phys. Lett. A 28(2013)1350072 (World Scientific).
- M. Sharif and M. Azam, Dynamical Instability of Collapsing Radiating Fluid: J. Exp. Theor. Phys. 116(2013)911-915 (Springer).
- M. Sharif and Nida Haider, Center of Mass Energy for Plebanski-Demianski Black Hole: J. Exp. Theor. Phys. 117(2013)78-82 (Springer).
- M. Sharif and Nida Haider, Study of Center of Mass Energy by Particles Collision in Some Black Holes: Astrophys. Space Sci. 346(2013)111-117 (Springer).
- M. Sharif and Z. Yousaf, Dynamical Instability of the Charged Expansion-free Spherical Collapse in $f(R)$ Gravity: Phys. Rev. D. 88(2013)024020 (APS).
- M. Sharif and S. Rani, Nonlinear Electrodynamics in $f(T)$ Gravity and Generalized Second Law of Thermodynamics: Astrophys. Space Sci. 346(2013)573-582 (Springer).
- M. Sharif and Saira Waheed, Thermodynamics and Cosmic Expansion in Magnetized Chameleonic Brans-Dicke Universe: Astrophys. Space Sci. 346(2013)583-597 (Springer).
- M. Sharif and A. Jawad, Reconstruction of Scalar Field Dark Energy Models in Kaluza-Klein Universe: Commun. Theor. Phys. 60(2013)183-188 (China).
- M. Sharif and Saira Waheed, Evolution of Bianchi I Magnetized Cosmic Strings in Brans-Dicke Gravity: Physica Scripta 88(2013)025901 (IOP, UK).
- M. Sharif and M. Zubair, Thermodynamic Behavior of particular $f(R,T)$ Gravity Models: J. Exp. Theor. Phys. 117(2013)248-257 (Springer).
- M. Sharif and Amal Majid, Plane Symmetric Gravitational Collapse and Linear Equation of State: Astrophys. Space Sci. 347(2013)71-76 (Springer).



- M. Sharif and Z. Yousaf, Stability of the Charged Spherical Dissipative Collapse in $f(R)$ Gravity: Mon. Notices Roy. Astron. Soc. 434(2013)2529-2538 (OUP).
- M. Sharif and S. Rani, Viscous Dark Energy in $f(T)$ Gravity: Mod. Phys. Lett. A 28(2013)1350118 (World Scientific).
- M. Sharif and Shamaila Rani, Thermodynamics in $f(T)$ Gravity and Corrected Entropies: Eur. Phys. J. Plus 128(2013)96 (Springer).
- M. Sharif and G. Abbas Dynamics of Charged Radiating Collapse in Modified Gauss-Bonnet Gravity:, Eur. Phys. J. Plus 128 (2013)102 (Springer).
- M. Sharif and M. Azam, Reissner-Nordstrom Thin-Shell Wormholes with Generalized Cosmic Chaplygin Gas: Eur. Phys. J. C 73(2013)2554 (Springer).
- M. Sharif and Saira Waheed, Dynamics of Potentials in Bianchi Type Scalar-Tensor Cosmology: Phys. Lett. B 726(2013) 33-40 (Elsevier).
- Sarfraz, M., Hussain, M. Z. & Maria Hussain, Shape preserving curve interpolation, International Journal of Computer Mathematics, Vol. 89(1) (2012) 35-53.
- Tahira, S. S., Sarfraz, M. & Hussain, M. Z, Shape preserving positive and convex data visualization using rational bi-cubic functions, Pakistan Journal of Statistics and Operation Research , Vol.8(1) (2012) 121-138.
- Sarfraz, M., Hussain, M. Z. & Arfan Ali, M., Positivity-preserving scattered data interpolation scheme using the side- vertex method, Applied Mathematics and Computation, Vol. 218, (2012) 7898-7910.
- Cripps, R. J., Hussain, M. Z, C1 monotone cubic Hermite interpolation, Applied Mathematics Letters, Vol. 25, (2012) 1161-1165.
- Hussain, M. Z., Sarfraz, M.& Tahira, S. S., Monotone data visualization using rational functions, World Applied Sciences Journal, Vol. 16(11), (2012) 1496-1508.
- Sarfraz, M., Hussain, M. Z., Shehla Aslam & Maria Hussain, , Monotony preserving scattered data interpolation scheme using side-vertex method, Proc. IEEE 16th International Conference on Information Visualization, July 10-13, (2012) Montpellier, France, 480-485.
- Sarfraz, M., Misbah, I. & Hussain, M.Z., Vectorization of image outlines using rational spline and genetic algorithm, Proc. International Conference on Image, Vision and Computing, August 25-26, (2012) Shanghai, China, 16-20.
- Maria Hussain, Hussain, M.Z. & Iram B., Shape properties of irregular surface data, Pakistan Journal of Statistics and Operation Research, Vol.8 (4), (2012) 801-820.
- Farheen Butt, Maria Hussain, Hussain, M.Z. & A. A. Bhatti , Positive data visualization using trigonometric function, Journal of Applied Mathematics, Doi: 10.1155\2012\247120



- Sarfraz, M., Misbah, I. & Hussain, M.Z, Reverse engineering of planer objects using GAs, Sains Malaysiana Vol. 42(8), (2013) 1167-1179.
- Sarfraz, M., Hussain, M.Z. & Munaza I, Modeling of objects using conic splines, Journal of Software Engineering and Applications Vol. 6 (3B), (2013) 67-72.
- Sarfraz, M., Hussain, M. Z. & Maria Hussain, Modelling rational spline for visualization of shaped data. Journal of Numerical Mathematics, Vol. 21(1), (2013) 63-88.
- Sarfraz, M., Hussain, M. Z. & Misbah, I., Reverse engineering of digital curve outlines using genetic algorithm, International Journal of Computers Vol.7(1), (2013) 1-10.
- Misbah, I., Sarfraz, M. & Hussain, M. Z., Genetic algorithm works for vectoring image of generic shapes , Journal of Software Engineering and Applications Vol. 6(7), (2013) 329-337.
- Sarfraz, M., Misbah, I., Faiza S. & Hussain, M. Z., A novel approach for surface to surface intersection approximation, Proc. IEEE 17th International Conference on Information Visualization, July 15-18, London, UK., (2013) 482-487.
- M.Asam Malik, S.M.Husnine and A.Majeed, Action of the Mobious Group $M = \langle x, y : x^2 = y^6 = 1 \rangle$ on Certain Real Quadratic Fields. PUJM, Vol. 44, 31-37, 2012.
- M.Asam Malik, S.M.Husnine and M. Asim Zafar, Certain H-subsets of $Q(\sqrt{m}) \setminus Q$ under the action of $H = \langle x, y : x^2 = y^4 = 1 \rangle$, Pakistan Journal of Science, Vol. 64 No. 1 March, 67-74, 2012.
- M. Aslam Malik, Nousheen Gohsi, Invariant subsets of $PLQ(\sqrt{m})$ under the action of $M = \langle x, y : x^2 = y^6 = 1 \rangle$, Pakistan Journal of Science, Vol. 64 No. 3 Sep, 2012, , 247-257.
- M. Aslam Malik, M.Touqeer, Intuitionistic fuzzy BCI-commutative ideals in BCI-algebras, Pakistan Journal of Science, Vol. 64 No. 4 Dec, 2012, 353-358. 22.
- M. Aslam Malik, Akbar Ali, The graph is an induced subgraph of a Johnson Graph, International Contemporary Mathematical Sciences, Vol. 7 (8), 2012, 369-376.
- M. Aslam Malik, Akbar Ali, Some Results on Induced Sub graphs of Johnson Graphs, International Mathematical forum, Vol. 7 (9), 2012, 445-454.
- M. Khalid Mahmood and M. Aslam Malik, An Account of Congruences Mod P_k Using Halley's Method World Applied Sciences Journal 16 (11), 2012, 1626-1630.
- Farkhanda Afzal, Qamar Afzal and M. Aslam Malik: A Classification of the Real Quadratic Irrational Numbers a n c of $() Q n$ w.r.t Modulo $3r$, International Mathematical Forum, Vol. 7 (39), 2012, 1915-1924.
- M. Aslam Malik and M. Khalid Mahmood, On Simple Graphs Arising From Exponential Congruence, Journal of Applied Mathematics, Volume 2012, Article ID 292895, 10 pages, doi:10.1155/2012/292895, 2012.



- F. Afzal, I. S. Bhatti and M. A. Malik, Action of G and M on $Q(m)$ and Algorithmic Implementation for Group Actions, *Journal of Hyper structures* 1(1), 2012, 41-51.
- Ghazala Akram, Quartic Spline Solution of a Third Order Singularly Perturbed Boundary Value Problem, *ANZIAM Journal*, Vol. 53 (2012), pp. E44-E58.
- Shahid S. Siddiqi, Muzammal Iftikhar and Ghazala Akram, Solution of the Special Seventh Order Boundary Value Problem by the Optimal Homotopy Asymptotic Method: *Archives Des Sciences*, Vol. 65 Issue 2 (2012), pp. 37-44.
- Shahid S. Siddiqi, Ghazala Akram and Muzammal Iftikhar, Solution of Seventh Order Boundary Value Problem by Differential Transformation Method: *World Applied Sciences Journal* Vol. 16 (11), (2012), pp. 1521-1526.
- Ghazala Akram and Nadia Amin, Solution of a Fourth Order Singularly Perturbed Boundary Value Problem Using Quintic Spline: *International Mathematical Forum* Vol. 7, (2012), no. 44, 2179-2190.
- Shahid S. Siddiqi, Ghazala Akram and Muzammil Iftikhar, Solution of Seventh Order Boundary Value Problems by Variational Iteration Technique: *Applied Mathematical Science*, Vol. 6, (2012) No. 94, 4663-4672.
- Shahid S. Siddiqi, Ghazala Akram and Kalsoom Arshad, Solution of Fourth Order Obstacle Problems Using Quintic B-Splines: *Applied Mathematical Sciences*, Vol. 6, (2012) no. 94, 4651-4662.
- Shahid S. Siddiqi, Ghazala Akram and Huzaima Baig Solution of Delay Differential Equations using Nonic Spline Collocation Methods: *International Mathematical Forum*, Vol. 7, (2012) No. 45-48, 2279-2292.
- Ghazala Akram and Hamood ur Rehman, Reproducing Kernel Method for Fourth Order Singularly Perturbed Boundary Value Problem: *World Applied Sciences Journal* 16 (12) (2012) 1799-1802.
- Shahid S. Siddiqi, Ghazala Akram, Solution of Seventh Order Boundary Value Problem using Octic Spline: *Archives Des Sciences*, Vol. 65 Issue 9 (2012), pp. 502-509.
- Ghazala Akram and Hamood Ur Rehman, Solution of the System of Fourth Order Boundary Value Problem using Reproducing kernel Space *JAMI* Vol. 31, No.1-2, (2012) pp. 55-69.
- Ghazala Akram and Hamood Ur Rehman, Numerical solution of eighth order boundary value problems in reproducing Kernel space: *Numerical Algorithms*, Vol. 62, 527–540, 2013.
- Ghazala Akram and Hamood ur Rehman, A Numerical Solution of a Convection-Dominated Equation Arising in Biology: *Research Journal of Applied Sciences, Engineering and Technology*, 5(2), (2013) 507-509.
- Ghazala Akram, Mohammad Tehseen, Shahid S. Siddiqi and Hamood Ur Rehman, Solution of Linear Third Order Multi-point Boundary Value Problem Using RKM: *British Journal of Mathematics and Computer Science*, Vol. 3(2), (2013) pp180-194.



- Daud Ahmad and Bilal Masud: A Coons patch spanning a finite number of curves tested for variationally minimizing its area: Journal: Abstract and Applied Analysis, (2012) <http://dx.doi.org/10.1155/2013/645368>.
- **Conferences, Seminars & Workshops etc.**
 - Mr. Abdul Jawad delivered the lecture on “Study of Cosmic Acceleration Via Dark Energy Models” (Maths. Dept. PU Lahore October 03, 2012)
 - Prof. Dr. Muhammad Sharif delivered the lecture on “Modern Cosmology” (First National Conference on Space Sciences, ISPA, University of Karachi, October 08, 2012)
 - Prof. Dr. Muhammad Sharif attended a conference on “First National Conference on Space Sciences”, ISPA, University of Karachi, October 08-09, 2012.
 - Mr. Muhammad Zubiar delivered the lecture on “Evolution of the Universe in $f(R)$ Gravity” (Maths. Dept. PU Lahore October 17, 2012)
 - Ms. Misbah Irshad delivered the lecture on “Reverse Engineering of Shapes” (Maths. Dept. PU Lahore October 31, 2012)
 - Miss Saira Waheed delivered the lecture on “Cosmic Evolution in Self-Interacting Brans-Dicke Cosmology” (Maths. Dept. PU Lahore November 07, 2012)
 - Ms. Wajiha Javed delivered the lecture on “Fermions Tunneling From PD Black Holes” (Maths. Dept. PU Lahore November 11, 2012)
 - Ms. Munaza Ishaq delivered the lecture on “Shape Preservation Interpolation” (Maths. Dept. PU Lahore November 14, 2012)
 - Ms. Tahira Sumbal Shiekh delivered the lecture on “Shape Preserving Data Visualization” (Maths. Dept. PU Lahore December 05, 2012)
 - Ms. Shumaila Rani delivered the lecture on “Interacting $f(T)$ Gravity Via Some Scalar Field Models” (Maths. Dept. PU Lahore December 12, 2012)
 - Mr. Muhammad Azam delivered the lecture on “Stability of Thin-Shell Wormholes in Nonlinear Electrodynamics” (Maths. Dept. PU Lahore January 02, 2013)
 - Dr. Aziz Ullah Awan delivered the lecture on “Solution of Non-Newtonian Fluids” (Maths. Dept. PU Lahore January 16, 2013)
 - Mr. Hamood-ur-Rehman delivered the lecture on “Solution of BVPs Using RKM” (Maths. Dept. PU Lahore January 23, 2013)
 - Ms. Saima Arshad delivered the lecture on “Solution of Partial Differential Equations” (Maths. Dept. PU Lahore January 30, 2013)
 - Mr. Muhammad Younis delivered the lecture on “Subdivision Schemes” (Maths. Dept. PU Lahore February 06, 2013)



- Ms. Nida Haider delivered the lecture on “Study of Center of Mass energy by Particle Collision in Some Black Holes” (Maths. Dept. PU Lahore February 13, 2013)
- Prof. Dr. Muhammad Sharif attended a conference on “ IV Italian-Pakistani Workshop on Relativistic Astrophysics”, CAMP-NUST, Islamabad-Pakistan, February 15-17, 2013.
- Mr. Muhammad Zubiar delivered the lecture on “Thermodynamics Aspects of F(R,T) Gravity” (Maths. Dept. PU Lahore February 20, 2013)
- Ms. Faiza Sarfraz delivered the lecture on “Approximation of Surfaces” (Maths. Dept. PU Lahore February 27, 2013)
- Prof. Dr. Malik Zawwar Hussain delivered a talk on “Reverse engineering of planer objects using an evolutionary optimization technique”, World Conference of 21st Century Mathematics, March 6-9, 2013, Lahore, Pakistan.
- Prof. Dr. Malik Zawwar Hussain Worked as member of Organizing Committee in World Conference of 21st Century Mathematics, March 6-9, 2013, Lahore, Pakistan.
- Mr. Nadeem Bari delivered the lecture on “Traces and Binary Quadratic Forms in the Modular Group” (Maths. Dept. PU Lahore March 06, 2013)
- Ms. Wardat-us-Salam the lecture on “Fractal Behavior of Ternary 4-Point Interpolatory Subdivision Scheme with Tension Parameter” (Maths. Dept. PU Lahore March 13, 2013)
- Ms. Iqra Saeed delivered the lecture on “Convexity-Preserving Scattered Data Interpolation” (Maths. Dept. PU Lahore March 20, 2013)
- Ms. Usama Idrees delivered the lecture on “Generation of Fractal Curves using Ternary 4-Point Interpolatory Subdivision Scheme” (Maths. Dept. PU Lahore March 27, 2013)
- Ms. Zuriat Zahra delivered the lecture on “Some Static Interior Solution in f(R) Gravity” (Maths. Dept. PU Lahore April 03, 2013)
- Ms. Moshayyada Javaid delivered the lecture on “Shape Preserving Trigonometric Functions” (Maths. Dept. PU Lahore April 10, 2013)
- Ms. Saima Siddiqui delivered the lecture on “Relationship between Fractal Generation and Ternary 5-Point Interpolatory Subdivision Scheme” (Maths. Dept. PU Lahore April 17, 2013)
- Ms. Tahira Sadiqa delivered the lecture on “Fixed points of Real Quadratic Fields under Modular Group Action” (Maths. Dept. PU Lahore April 24, 2013)
- Ms. Sadaf Yasmeen delivered the lecture on “Conic Spline” (Maths. Dept. PU Lahore May 8, 2013)
- Ms. Amal Majid delivered the lecture on “Plane Symmetric Gravitational Collapse and Linear Equation of State” (Maths. Dept. PU Lahore May 15, 2013)
- Ms. Sumera Naz delivered the lecture on “Continued Fractions and the Group PSL(2,Z)” (Maths. Dept. PU Lahore May 22, 2013)



- Ms. Maasoomah Sadaf delivered the lecture on “Non-polynomial Spline Solution of Fifth-order Boundary Value Problems” (Maths. Dept. PU Lahore May 29, 2013)
- Prof. Dr. Malik Zawwar Hussain, Working as member, Program and Reviewing Committee, International Conference of Graphical Models and Imaging GMAI, July 15-18, 2013, London, UK.
- Mr. Muhammad Azam delivered the lecture on “Spherical thin-Shell Wormholes and Modified Chaplygin Gas” (Maths. Dept. PU Lahore September 09, 2013)
- Prof. Dr. Malik Zawwar Hussain, Conducted three days’ workshop on Mathematica, School of Mathematical Sciences, University Sains Malaysia, September 10-12, 2013.
- Prof. Dr. Malik Zawwar Hussain delivered a talk on “Data visualization, School of Dental Sciences”, University Sains Malaysia, September 15, 2013.
- Prof. Dr. Malik Zawwar Hussain delivered a talk on “Outline capturing of generic shapes using genetic algorithm and cubic spline”, School of Mathematical Sciences, University Sains Malaysia, September 17, 2013.
- **Research Journals**
 - Punjab University Journal of Mathematics (PUJM, Category X) published 44th edition and 60 Journals have been exchanged in the different libraries worldwide.

RESEARCH COLLABORATION

- **Foreign Linkages**
 - Department of Mathematics, University of the Punjab, Lahore-Pakistan and School of Mathematical Sciences, University of Sians, Malaysia has signed Memorandum of Understanding (MOU) for research collaboration.
 - School of Engineering, Manufacturing and Mechanical Engineering, University of Birmingham, UK.
- **Funding Grants for R&D**
 - HEC granted scholarships for four Ph.D. Scholars.
 - DPCC granted (one for Ph.D student and one for M.Phil. student).

DEPARTMENT OF PHYSICS

- **Research & Development – An Overview**
 - Research activities in the Department are going on in various areas including experimental and theoretical Physics in collaboration with other national institutions/ Organizations namely PINSTECH, INMOL, Shaukat Khanum Hospital, SUPARCO, Govt. College University, CSSP, Department of Meteorology and PCSIR. The main fields of research in theoretical Physics are: Quantum Field Theory, Conformal Field Theory, Condensed Matter Physics, Plasma and Nonlinear Physics. On the other hand, the experiment research includes Material Science, Solid State Physics, Nuclear Physics, Nuclear Medicine, Physics of Semiconductor Devices,



Atmospheric Physics, Environmental Pollution & Climatology, and Quantum Wires / Quantum Dots (Nanotechnology) and estimation chemical contamination of drinking water. Twenty Eight (28) research papers have been published in National and Internal Research Journals by the faculty members in the last academic year and many are submitted. A joint research project has been submitted to HEC by Dr. Mahmood-ul Hassan (Jr) and Dr. Hafiz Muhammad Rafique which will definitely be helpful for further publications.

- **Projects (i) Completed**

- 03

- **(ii) Newly Launched**

- 07

- **Publications**

- M.A. Iqbal, W. Tahir, G. Murtaza Rai, N.A. Noor, Salamat Ali, K.T. Kubra.(2012) An investigation of the titanium effect on the structural and magnetic properties of BaNi₂ based W-type hexaferrites *Ceramic International*38 IF (1.751)
- Ghulam Murtaza Rai, Muhammad Azhar Iqbal, Yong-bing Xu, Iain Gordon Will and Qasim Mahmood (2012)Room Temperature Ferromagnetism in Ga_{1-x}Ho_xN (x=0.0 and 0.05) Diluted Magnetic Semiconductor Thin Films *Chinese J. Chem Phys* 25 IF(0.692)
- Masood, S. R. Ahmad, S. A. Mahmood, J. Qureshi, H. M. Rafique and M.S(2012). Khan Surface deformation through fractal analysis of DEM based spatial drainage patterns in GilgitBaltistan region (Northern Pakistan) *Pakistan Journal of Science* (Local journal). IF(64)
- J. Qureshi, S. A. Mahmood, A. S. Almas, H. M. Rafique, S.R. Ahmad and A. (2012)Masood DEM based geomorphic analysis along Kalabagh fault and Potwar plateau to constrain surface deformation: inferences from remote sensing and GIS *Pakistan Journal of Science* (Local journal) IF(64)
- M. Jamil, Ch. Uzma, K. Zubia , I. Zeba,H. M. Rafique and M. Salimullah (2012). Diamagnetic drift instabilities in collisional non-uniform quantum dusty magnetoplasmas *J. Plasma Physics*10 IF(0.944)
- Arshad, M., Zia-Ur-Rehman, M., Khan, I., Mustafa, G., Shafiq, M., Rafique, H. M. and Holman,K (2012)Structural Studies of N-Alkyl Derivatives of Methyl 4-Hydroxy-2H-1,2- Benzothiazine-3-Carboxylate-1,1Dioxide *Walailak Journal of Science and Technology (WJST)* 10 IF(0.86)
- Husnain, Ishaq Ahmad, Shu-De Yao, H. M. Rafique, Akrajas Ali Umar and Chang Fu Dee (2012) Depth-dependent Tetragonal. Distortion Study of AlGaNEpilyer Thin Film Using RBS and Channelling Technique *Modern Physics Letter B*26 IF(0.474)



- Ahmad, Chang Fu Dee, G.Husnain, H. M. Rafique, Yan Long, and S. Naseem (2012) Use of high-intensity electron beam to form nanohole, induce bending and fabricate nanocontact on a ZnO nanowire *Micro & Nano Letters* 7 IF(1.17)
- H. Zhang, Eddie L. Honorato, A. Javed, I. Shapiro, P.(2012) Xiao A Study of the Microstructure and Vickers Indentation Fracture Toughness of Silicon Carbide Coatings on TRISO Fuel Particles J. Am. Ceram. Soc., 95 IF(2.272).
- Mr. Naveed Ahmad Noor (2012) Ab initio study of structural, electronic and optical properties of Be-doped CdS, CdSe and CdTe compounds *Physica B: Condensed Matter* 407 IF(1.063)
- Dr. Hafiz Muhammad Rafique Yan Long, H⁺, N⁺, and Ar⁺ ion irradiation induced structure changes of carbon nanostructures *Carbon*, 60, 5625 IF(.868)
- Dr. Hafiz Muhammad Rafique Elastomeric Ablative Nanocomposites Used in Hyperthermal Environments *Polymer Engineering & Science*
- Dr. Hafiz Muhammad Effect for hydrogen, nitrogen, phosphorous, and argon ions irradiation on ZnO NWs *Journal of Nanoparticle Research* 15, 1467 IF(2.175)
- Dr. Hafiz Muhammad Rafique Ablation, thermal stability/transport and mechanical investigations of modified nanokaolinite impregnated acrylonitrile butadiene rubber composites, *Journal of Composite Materials* IF(0.936)
- Dr. Hafiz Muhammad 4-hydroxy-2H-1,2-benzothiazine-3-carbohydrazide 1,1-dioxide-oxalohydrazide (1:1): X-ray structure and DFT calculations *Journal of Structural Chemistry*, 54, 437 IF(0.547)
- Dr. H.M. Rafique Ramoona Shehzadi, (Co - author) Appraisal of drinking water quality of tehsil Jampur, Pakistan
- Dr. H.M. Rafique Attia Falak (Co-author) Spatio-temporal analysis of groundwater regime within Rawalpindi Municipal Jurisdiction, Pakistan, *Desalination and Water Treatment Desalination and Water Treatment*
- Dr. Munazza Zulfiqar Ali Effective medium parameters for 1D photonic crystal containing single-negative material layers using the envelope function approach *CHINESE OPTICS LETTERS* 11 (.040501) IF(0.968)
- Dr. Athar Javed Morley, Effect of the Ni₈₁Fe₁₉/Fe₅₀Co₅₀ thickness on the magnetic properties of Ni₈₁Fe₁₉/Fe₅₀Co₅₀ bilayers *Journal of Magnetism and Magnetic Materials* 313 67-71 IF(1.826)
- Dr. Athar Javed Mössbauer study of vacuum annealed Fe_{100-x}Gax (10 ≤ x ≤ 35) thin films, *Nukleonika* 58 27-30 IF(0.507)
- Dr. Muzaffir Bashir Area Bound Dynamic Time Warping Based Fast and Accurate Person Authentication Using a Biometric Pen In Digital Signal Processing DSP Elsevier 23 (259) IF(1.918)



- Dr. Tayyaba Zafar The ESO UVES advanced data products quasar sample – I. Dataset and new NHI measurements of damped absorbers Astronomy and Astrophysics (A&A) In press 5.1
- Dr. Tayyaba Zafar The ESO UVES advanced data products quasar sample – II. Cosmological evolution of the neutral gas mass density” Astronomy and Astrophysics (A&A) In press 5.1
- Dr. Tayyaba Zafar Helium in Natal H II Regions: The Origin of the X-Ray Absorption in Gamma-Ray Burst Afterglows Astrophysical Journal (ApJ) 786, 23W IF(6.7)
- Dr. Tayyaba Zafar The metals-to-dust ratio to very low metallicities using GRB and QSO absorbers; extremely rapid dust formation Astronomy and Astrophysics (A&A) Under review 5.1
- Dr. Tayyaba Zafar Evolution of dust content in galaxies probed by gamma-ray burst afterglows Monthly Notices of the Royal Astronomical Society (MNRAS) Under review 4.9
- Dr. Tayyaba Zafar GRB 100219A with X-shooter abundances in a galaxy at $z=4.7$ Monthly Notices of the Royal Astronomical Society (MNRAS) 428, 3590TIF(4.9)
- Dr. Tayyaba Zafar Absorption spectroscopy of the short GRB 130603B – Looking into the environment of a binary neutron star Nature Under review IF(31.7)
- **Conferences, Seminars & Workshops etc.**
 - Seminar on topic “Application of Ionizing Radiation in Everyday Life-its Hazards & Protection” By Asad Ejaz , PSO Pakistan Nuclear Regulatory Authority (PNRA), Islamabad Preparatory Workshop held at the Department of Physics on 22th May 2013
 - Dr. Tayyaba Zafar (Assistant Professor), delivered an invited talk at the Department of Physics, University of the Punjab, Lahore on “Dusty Cool Cosmos”, June 2013.
 - Mr. Faisal Akram (Assistant Professor), delivered an invited talk at the Department of Physics, University of the Punjab, Lahore on “Hadronic Cross Sections of Bc Mesons” in 2013.
- **Research Journals**

The following journals are received regularly & few are free of cost:

 - Scientific American
 - Nature Physics
 - Cern Courier
 - Korean Physics Society
 - Nuclear Science
 - Nuclear Engineering & Technology
 - Scientific Research published by University of the Punjab

RESEARCH COLLABORATION

- **Indigenous**
 - Higher Education Commission, Punjab University, Lahore, Lahore University of Management Sciences



- **Foreign Linkages**

- Department of Radiation Medicine, University of Kentucky, USA, Southside
- Regional Medical Centre, Petersburg, VA, USA and Department of Electrical
- Engineering and Computer Science, Michigan State University, USA.
- International Centre for Theoretical Physics, (ICTP) Italy

- **Funding Grants for R&D**

- Some teachers of the Department of Physics applied for research grants under Faculty Development Programme of PU, Lahore and they were awarded accordingly.

DEPARTMENT OF SPACE SCIENCE

- **Publications**

- S.R Ahmad, S.A Mahmood, A Masood and J.Qureshi. DEM based Computation of topographic surface roughness to reveal incision in Gilgit Baliistan, Pakistan Journal of Science, Vol 65.no 01 (March 2013)pages 167-172(HEC Recognized)
- S. R. Ali, S.Parvez, 'Use of Fourier Transformations and Wavelets Customization for Satellite Image Processing', presented in ICASE-2013, Islamabad (11-15 August 2013) - under publication process in ICASE-IEEE proceeding.
- S. Iqbal, S.Parvez, 'Comparing Different Image Classification Techniques (Fuzzy, OBIA, Pixel-Based)', poster presentation in ICASE-2013, Islamabad (11-15 August 2013). Also won 2nd prize.
- R. Rizwan, S. Parvez, 'Digital Change Detection Methods for Satellite Remote Sensing Images', poster presentation in ICASE-2013, Islamabad (11-15 August 2013).
- A. Maryam, S.Parvez, 'DEM/DTM/DSM Generation using Point Elevation Data and existing DEM of Swat District', poster presentation in ICASE-2013, Islamabad (11-15 August 2013).
- H. Sara, H. M. Usman, S. Iqbal, M Mubashir, S Parvez, 'Monitoring and Mapping Batura Glacier using RS&GIS', poster presentation in ICASE-2013, Islamabad (11-15 August 2013).
- S.Tariq,S.A. Batool, A.D. Rana, K.Mahmood, M.Batool, I. Murtaza, A. Hashim, 2013. Variability of size distribution, refractive index and asymmetry parameter of aerosols over Lahore derived from AERONET. Science International 24, 137-139.(HEC Recognized Journal)
- K. Mahmood, A.D. Rana, S.Tariq, S. Kanwal, R. Ali, A. H. Ali and T. Tahseen, 2013 Ground Water Levels Susceptibility to Degradation in Lahore metropolitan, Science International 25,123-126. (HEC Recognized Journal)

- **Conferences, Seminars & Workshops etc.**

In-house Seminars Organized:

- To celebrate World Space Week, an in-house seminar was organized. A lecture on "Roof-top Solar Panels Detection using Remote Sensing" was delivered by Mr Muhammad AtharJavaid,



PhD Scholar at the Stuttgart University, Germany and Lecturer at the Department of Space Science on 04 Oct 2012 at the Department of Space Science.

- Organized an in-house seminar on "High Resolution MODIS Simplified Aerosol Retrieval Algorithm (SARA)" by Mr. Muhammad Bilal, Ph.D Scholar at the Department of Land Surveying and Geo-Informatics, The Hong Kong Polytechnic University, Hong Kong, on 13 Nov 2012 at the Department of Space Science.
- Organized a seminar on introductory sessions about "Pakistan Journal of Urban Affairs" and "Urban Unit, Pakistan" on 12 June 2013 at the department of Space Science.

In-house Workshop Organized:

- To celebrate World Space Week, an in-house workshop was organized on "Introduction to Python Scripting in ArcGIS" by Mr Muhammad AtharJavaid, PhD Scholar at the Stuttgart University, Germany and Lecturer at the Department of Space Science on 12 Oct 2012 at the Department of Space Science.

Workshops/Seminars attended:

- Invited Resource Person as well as attended as a participant in the ISNET/ISA International Workshop on Space Applications for Disaster Risk Reduction and Management, 7-19 Sep 2013, Tehran, Iran on ISNET sponsorship.
- Invited Co-chair for RS&GIS Session in the International Conference on Aerospace Science and Engineering (ICASE)-2013, Islamabad held on 11-15 August 2013.
- Attended National Stakeholders Conference on 'Land Acquisition, Resettlement, and Rehabilitation in Pakistan' held at the National Centre for Resettlement and Rehabilitation, University of the Punjab, Lahore on 03-04 July 2013.
- Invited guest in a "GIS Working Group meeting" organized by UN-OCHA at WWF - Pakistan Head Office, Lahore held on 28 March 2013.
- Attended a workshop on "Advanced Geo-spatial Disaster Management Techniques" (11-14 Feb 2013) held at Institute of Space Technology (IST), Islamabad on IST sponsorship.

INSTITUTE OF CHEMISTRY

● **Research & Development – An Overview**

- Institute of Chemistry is one of the most active institute of University of the Punjab regarding its contribution toward research and development. The faculty members of the institute are actively involved in the research and development and present their work at various international and national conferences, seminars and workshops. Around 50 publications have been published in the above mentioned time period.
- Institute of Chemistry has also established research collaborations and linkages with the following organizations.



- **Projects (ii) Newly Launched**

- **Dr. Zahoor H. Farooqi**

- Title of the Project: Synthesis and Characterization of microgels supported catalysts for Environmental Applications (in progress)
 - Amount: 1,25,000 (PKR)
 - Year: 2012-2013
 - Funded by: University of the Punjab, Lahore, Pakistan
 - Place: Institute of Chemistry, University of the Punjab, Lahore

- **Muhammad Imran Din**

- Amount: **1,25000/-**
 - **From University** of the Punjab, Lahore, Pakistan

- **Publications**

- Dr. Makshoof Athar
 - Muhammad Salman, Makshoof Athar, Umer Shafique, Rabia Rehman, Sadia Ameer, Sana Zulfiqar Ali, Muhammad Azeem, Removal of formaldehyde from aqueous solution by adsorption on kaolin and bentonite: a comparative study. Turkish J. Eng. Env. Sci. Vol. 36, 263-270 (2012) I.F (0.46).
 - Muhammad Imran Din, Muhammad Latif Mirza, Sadia Ata, Makshoof Athar and Ijaz Ul Mohsin, Thermodynamics of Biosorption for Removal of Co(II) Ions by an Efficient and Ecofriendly Biosorbent (Saccharum bengalense): Kinetics and Isotherm Modeling. Journal of Chemistry, Vol. 2013. 1-8, (2012) I. F. (0.484)
 - Umer Farooq, Makshoof Athar, Misbahul Ain Khan and Janusz. A. Kozinski, Biosorption of Pb (II) and Cr (III) from aqueous solutions: Breakthrough curves and modeling studies. Environmental Monitoring and Assessment, (2013) Vol. 185, 845-854 I.F (1.592).
 - Muhammad Salman, Makshoof Athar, Umar Farooq, Saba Nazir, Huma Nazir, Insight to rapid removal of Pb(II), Cd(II) and Cu(II) from aqueous solution using an agro-based adsorbent Sorghum bicolor L. biomass, Desalination and Water Treatment, Vol. 2013, 1-13, (2013) I.F (0.852).
 - Makshoof Athar, Mahbool Ali, Misbahul Ain Khan, Dispersion modeling of toxic air pollutants from fossil fuel combustion facilities, International Journal of Environmental Engineering, Vol.5 (1), 1-31, (2013).
 - Muhammad Salman, Makshoof Athar, Umar Farooq, Huma Nazir, Anam Noor, Saba Nazir, Microwave assisted Urea-modified Sorghum biomass for Cr(III) elimination from aqueous solutions. The Korean Journal of Chemical Engineering, Vol 30(6), 1257-1264 (2013) I.F (1.059)



- Dr. Munawar Ali Munawar
 - A. Nazeer, N.Parveen, S. Aslam, M. Ain Khan, M. A. Munawar. Synthesis and antibacterial activity of 2-phenyl-5-aryl-4, 5, 6, 7, 8, 9- hexahydro-1,2,4-triazolo[1,5-a]quinazolines. *Afinidad*. 70(563),220-225. 2013. 0145
 - F. A. Chattha, M. A. Munawar, S. A. Nagra, M. Ashraf, M. A. Khan, S. Kosur. Synthesis of 3-Aryl-1H-indazoles and Their Effects on Plant Growth. *Journal of Plant Growth Regulation*. 32, 291-297. 2013. 1.990
 - M. Tahir, M. H. Sayyad, F. Wahab, F. Aziz, M. shahid, M. A. Munawar. Perylene diimide: Synthesis, fabrication and temperature dependent electrical characterization of heterojunction with p-silicon. *Physica B*. 426, 6-12.2013.1.327
 - F. Chaudhry, N. Asif, M. N. Khan, J. Ribeiro, A. Q. Ather, S. Hina, M. A. Munawar, M. Nasrullah, Q. T. Ain, F. Suhail, M. A. Khan. Synthesis of Pyrazoleacrylic Acids and Their Derivatives. *Asian Journal of Chemistry*. 25(14), 7879-7882.2013.0.253
 - A. Q. Ather, F. Chaudhry, M. N. Khan, E. A. S. Bueno, M. A. Khan, N. Aslam, K. M. Khan, M. M. Athar, M. A. Munawar, M. Ashraf, S. A. Ejaz. Synthesis, Antibacterial and Antioxidant Properties of Pyrazolyipyridazines. *Asian Journal of Chemistry*. 25(14), 7743-7748.2013.0.253
 - S. Aslam, N. Asif, M. N. Khan, M. A. Khan, M. A. Munawar, M. Nasrullah. Synthesis of Novel Arylfurfurylchalcones. *Asian Journal of Chemistry*. 25(14), 7738-7742.2013.0.253
 - T. Maqbool, M. A. Khan, M. N. Khan, M. C. Elliott, M. A. Munawar, M. Nasrullah, A. W. Bhatti, A. Nazeer and W.-O. Lin. Pyrazolopyridines I: Synthesis of Some Pyrazolo[3,4-b]pyridine-4-carboxylates. *Asian Journal of Chemistry*. 25(14), 7715-7718.2013.0.253.
 - Mehr-un-Nisa, M. A. Munawar, G. B. Hall, S. A. Roberts, V. J. Hruby, tert-Butyl 4-(3,4-dichloroanilino)piperidine, *Acta Crystallographica Section E*, E69, o205, 20123
 - A. Nazeer, N. Perveen, M. A. Khan, M. N. Khan, M. A. Munawar, W.-O. Lin. Synthesis and Antibacterial activity of Pyrazolo[1,5-a]quinazoline-3-carbonitriles. *Asian Journal of Chemistry*. 25(14), 7707-7709.2013.0.253
 - M. Nasrullah, M. A. Khan, M. N. Khan, M. G. Humphrey, U. Farooq, S. Aslam, M. Ahmad, M. A. Munawar, T. Maqbool, W.-O. Lin. Synthesis and Characterization of Diarylpyrazole-4-carbaldehyde Semicarbazones Metal Complexes. *Asian Journal of Chemistry*. 25(13), 7293-7296.2013.0.253.
 - A. M. Zafar, S. Qureshi, M. N. Khan, M. Azad, M.A. Munawar, M. A. Khan. Amino Acids Catalyzed Biginelli Protocols. *Asian Journal of Chemistry*. 25(6), 3244-3246.2013.0.253.
 - Z. Ahmed, M. H. Sayyad, F. Wahab, K. Sulaiman, M. Shahid, J. A. Chaudry, M. A. Munawar, F. Aziz. Enhancement of Electronic and charge transport properties of NiPc by potassium-tetrasulpho group. *Physica B*. 413, 21-23.2013.1.327



- S. Noreen, S. Parveen, M. N. Khan, A. Nazeer, M. A. Khan, M. A. Munawar, R. Baber, F. Suhail, M. Azad, A. M. R. Bernardino, M. S. D. Santos. Biginelli Reaction-Carboxylic Acids as Catalysts. *Asian Journal of Chemistry*. 25(9), 4770-4772.2013.0.253
- M. Nasrullah, M. A. Khan, M. N. Khan, M. G. Humphrey, F. H. Nasim, F. Chaudhry, M. G. Abidi, U. Farooq, M. A. Munawar. Diaryl pyrazole-4-Carbaldehyde Benzoylhydrazones Metal Complexes: Synthesis and their Antibacterial and Antioxidant screening. *Asian Journal of Chemistry*. 25(1), 419-423.2013.0.253.
- M. J. Saif, M. Zuber, J. Anwar, M. A. Munawar. Antimicrobial Activities of Bis-piperdinium compounds. *Polish Journal of Microbiology*. 61(3), 223-225.2013. 0.76.
- Dr. Tajamal Hussain
 - Khurram Shehzad, Asad Ul-Haq, Shahabaz Ahmad, Muhamamd Mumtaz, Tajamal Hussain, Adnan Mujahid, Asma Tufail Shah, Muhammad Yasir Choudhry, Irshad Khokhar, Sadaf Ul-Hassan, Faisal Nawaz, Faiz ur Rahman, Yasir Butt, Muhammad Pervaiz "All-organic PANI–DBSA/PVDF dielectric composites with unique electrical properties" *Journal of Material Science*, 48, 3737-3744, 2013.
 - Tajamal Hussain, Kenneth Rasmussen, Alexander Kokorin, Günter Grampp, "High-pressure EPR spectroscopy: paramagnetic exchange of organic radicals with iron (III) acetylacetonate" *Journal of Molecular Physics*. 111, 2717-2722 2013
- Miss Rabia Rehman
 - Biosorptive treatment of Acid Yellow-73 dye solution with chemically modified *Eugenia jambolana* seeds, *Journal of the Chemical Society of Pakistan*, 34 (5), 1120-1126 (2012).
 - Batchwise removal of chromium(VI) by adsorption on novel synthesized polyaniline composites with various brans and isothermal modeling of equilibrium data, *Journal of the Chemical Society of Pakistan*, 34 (5), 1134-1139 (2012).
 - Thermodynamical and mechanistic studies of Direct Red-28 adsorption on *Syzygium cumini* stem, *Juornal of the Chemical Society of Pakistan*, 34 (5), 1156-1162 (2012).
 - Adsorptive removal of Congo Red and Sunset Yellow dyes from water by Lady Finger stem, *Journal of the Chemical Society of Pakistan*, 34 (5), 1241-1247 (2012).
 - Detoxification of Acid Blue-w dye from water using chemically modified *Pisum sativum* peels as biosorbent-(a green approach), *Proceedings of International Conference on Environment 2012 (ICENV 2012)*, 11-13 December 2012 Penang, Malaysia, pp:103-111.
 - Removal of lead (II) from water by adsorption on novel composites of polyaniline with maize bran, wheat bran and rice bran, *Asian Journal of Chemistry*, 25 (5), 2399-2404 (2013).
 - Effect of temperature variations during cooking and storage on Ascorbic acid contents of vegetables: A comparative study, *Journal of the Chemical Society of Pakistan*, 35 (1), 1-4 (2013).



- Comparative sorptive removal of Direct Red-28 dye from water using acid, base and 2-propanol treated Okra stem powder, *Journal of the Chemical Society of Pakistan*, 35 (1), 89-94 (2013).
- Synthesis of novel composites of HCl-doped Polyaniline with Maize, Rice and Wheat flour and study of their structural, optical and conducting Properties, *Asian Journal of Chemistry*, 25 (7), 3701-3704 (2013).
- Use of Rice Husk Ash for Adsorptive Removal of Cobalt (II) ions along with Kinetic, Isothermal and Thermodynamical Modelling, *Journal of the Chemical Society of Pakistan*, 35 (2), 295-302 (2013).
- Adsorption Parameters Optimization for Removal of Alizarin Red-S and Brilliant Blue FCF dyes from Water using *Abelmoschus esculentus* Stem Powder, *Journal of the Chemical Society of Pakistan*, 35 (2), 443-448 (2013).
- Chemical modification of *Oryza sativa* Linnaeus husk with Urea for removal of Brilliant Vital Red and Murexide dyes from water by adsorption in environmentally benign way, *Journal of the Chemical Society of Pakistan*, 35 (2), 510-515 (2013).
- Sorptive Removal of Lead (II) from water using chemically modified mulch of *Madhuca longifolia* and *Polyalthia longifolia* as novel biosorbents, *Desalination and Water Treatment*, 51 (13-15), 2624-2634 (2013).
- Isothermal and thermodynamical modeling of removing cationic dyes through biosorption using simple and chemically modified *Eugenia jambolana* seeds as biosorbent, *Asian Journal of Chemistry*, 25 (8), 4261-4266 (2013).
- Sorptive elimination of Alizarin Red-S dye from water using *Citrullus lanatus* peels in environmentally benign way along with equilibrium data modeling, *Asian Journal of Chemistry*, 25(10), 5351-5356 (2013).
- Utilization of chemically modified *Citrus reticulata* peels for biosorptive removal of Acid Yellow-73 dye from water, *Journal of the Chemical Society of Pakistan*, 35(3), 611-616 (2013).
- Comparative study of fluoride concentration in human serum and drinking water in fluorinated endemic and non endemic areas of Pakistan, *Journal of the Chemical Society of Pakistan*, 35(3), 1025-1028 (2013).
- Statistical Analysis of Fluoride Levels in Human Urine and Drinking Water samples of Fluorinated Area of Punjab (Pakistan), *Journal of the Chemical Society of Pakistan*, 35(3), 1029-1033 (2013).
- Use of *Opuntia dillenii* seeds for sorptive removal of acidic textile dyes from water in benign way, *Asian Journal of Chemistry*, 25 (14), 7710-7714, 2013. DOI:10.14233/ajchem.2013.14576



- Kinetic and isothermal biosorption studies of Co(II), Cu(II) and Ni(II) using *Polyalthia longifolia* leaf powder, *Asian Journal of Chemistry*, 25(15), 8285-8288, 2013. DOI:10.14233/ajchem.2013.14713
- Isothermal investigation of Copper (II) and Nickel (II) adsorption from water by Novel Synthesized Polyaniline composites with *Polyalthia longifolia* and *Alastonia scholaris* dried leaves, *Asian Journal of Chemistry*, 25(16), 9013-9019, 2013. DOI:10.14233/ajchem.2013.14968
- Isothermal evaluation of chemical modification of *Ricinus communis* stem used for adsorptive removal of Brilliant Blue FCF dye from water, *Asian Journal of Chemistry*, 25(16), 9153-9158, 2013. DOI:10.14233/ajchem.2013.15059
- Dr. Umar Farooq
 - M. Athar, U. Farooq, M. Aslam, M. Salman. "Adsorption of Pb(II) ions onto biomass from *Trifolium resupinatum*: Equilibrium and kinetic studies" *Applied Water Sciences* 3(3): 665-672, 2013, (Open Access Springer)
 - S. Z. Ali, M. Athar, U. Farooq, M. Salman, "Insight into equilibrium and kinetics of the binding of Cadmium ions on radiation-modified straw from *Oryza sativa*" *Journal of Applied Chemistry* Volume 2013, Article ID 417180, 12 pages (Open Access)
 - M. Salman, M. Athar, U. Farooq, H. Nazir, Anam Noor and S. Nazir, "Microwave assisted Urea-modified Sorghum biomass for Cr (III) elimination from aqueous solutions" *Korean Journal of Chemical Engineering* 30(6): 1257-1264, 2013 (IF = 1.059).
 - M. Nasrullah, M. A. Khan, M. N. Khan, M. G. Humphrey, U. Farooq, S. Aslam, M. Ahmad, M. A. Munawar, T. Maqbool and W.-O. Lin. "Synthesis and Characterization of Diaryl Pyrazole-4-carbaldehyde Semicarbazones Metal Complexes" *Asian Journal of Chemistry* 25(13):7293-7296, 2013 (IF = 0.253).
 - M. Salman, M. Athar, U. Farooq, S. Nazir and H. Nazir "Insight into rapid removal of Pb(II), Cd(II) and Cu(II) from aqueous solution using an agro-based adsorbent *Sorghum bicolor* L. biomass" *Desalination and Water Treatment* 51(22-24): 4390-4401, 2013 (IF=0.852).
 - U. Farooq, Misbahul Ain Khan, Makshoof Athar, Janusz. A. Kozinski, "Biosorption of Pb(II) and Cr(III) from aqueous solutions: Breakthrough curves and modeling studies" *Environ. Monitor. Asses.*, 185(1): 845-854 2013 (IF = 1.592)
 - M. Nasrullah, Misbahul Ain Khan, Mark. G. Humphrey, Faizul Hassan Nasim, Moeena Ghazal Abidi, M. Naeem Khan, U. Farooq, M. A. Munawar, "Diarylpyrazole-4-carbaldehyde benzoylhydrazones metal complexes: Synthesis and their antibacterial and antioxidant screening" *Asian J. Chem.* 25(1):419-423, 2013 (IF = 0.253)



- Dr. Tariq Mahmud
 - Biosorptive treatment of Acid Yellow-73 dye solution with chemically modified *Eugenia jambolana* seeds, *Journal of the Chemical Society of Pakistan*, 34 (5), 1120-1126 (2012).
 - Thermodynamical and mechanistic studies of Direct Red-28 adsorption on *Syzygium cumini* stem, *Journal of the Chemical Society of Pakistan*, 34 (5), 1156-1162 (2012).
 - Detoxification of Acid Blue-w dye from water using chemically modified *Pisum sativum* peels as biosorbent-(a green approach), *Proceedings of International Conference on Environment 2012 (ICENV 2012)*, 11-13 December 2012 Penang, Malaysia, pp:103-111.
 - Comparative Sorptive Removal of Direct Red-28 dye from Water Using Acid, Base and 2-Propanol Treated Okra Stem Powder, *Journal of the Chemical Society of Pakistan*, 35(1), 89-94 (2013).
 - Adsorption Parameters Optimization for Removal of Alizarin Red-S and Brilliant Blue FCF dyes from Water using *Abelmoschus esculentus* Stem Powder, *Journal of the Chemical Society of Pakistan*, 35 (2), 443-448 (2013).
 - Chemical modification of *Oryza sativa* Linnaeus husk with Urea for removal of Brilliant Vital Red and Murexide dyes from water by adsorption in environmentally benign way, *Journal of the Chemical Society of Pakistan*, 35 (2), 510-515 (2013).
 - Sorptive Removal of Lead (II) from water using chemically modified mulch of *Madhuca longifolia* and *Polyalthia longifolia* as novel biosorbents, *Desalination and Water Treatment*, 51 (13-15), 2624-2634 (2013).
 - Isothermal and thermodynamical modeling of removing cationic dyes through biosorption using simple and chemically modified *Eugenia jambolana* seeds as biosorbent, *Asian Journal of Chemistry*, 25 (8), 4261-4266 (2013).
 - Sorptive elimination of Alizarin Red-S dye from water using *Citrullus lanatus* peels in environmentally benign way along with equilibrium data modeling, *Asian Journal of Chemistry*, 25(10), 5351-5356 (2013).
 - Utilization of chemically modified *Citrus reticulata* peels for biosorptive removal of Acid Yellow-73 dye from water, *Journal of the Chemical Society of Pakistan*, 35(3), 611-616 (2013).

Presented in the International Conferences

- A research paper entitled “Detoxification of Acid Blue-w dye from water using chemically modified *Pisum sativum* peels as biosorbent-(a green approach)”, was orally presented by Dr. Tariq Mahmud, in the International Conference on Environment 2012 (ICENV 2012), 11-13 December 2012 Penang, Malaysia.



- Muhammad Salman
 - R. Rehman, M. Salman, T. Mahmud, F. Kanwal and Waheed-uz-Zaman, Utilization of chemically modified *Citrus reticulata* peels for biosorptive removal of Acid Yellow-73 dye from water, *J. Chem. Soc. of Pak.*, 2013, 35(3), 611-616.
 - M. Salman, M. Athar, U. Farooq, H. Nazir, A. Noor and S. Nazir, Microwave assisted Urea-modified Sorghum biomass for Cr (III) elimination from aqueous solutions *The Korean Journal of Chemical Engineering*, 2013, 30(6), 1257-1264.
 - M. Athar, U. Farooq, S. Z. Ali and M. Salman, Insight into the binding of copper(II) by non-toxic biodegradable material (*Oryza sativa*): Effect of modification and interfering ions, *Clean Technologies and Environmental Policy*, 2013, DOI 10.1007/s10098-013-0664-9, Date of Acceptance: 20-07-2013
 - M. Athar, U. Farooq, M. Aslam and M. Salman, Adsorption of Pb(II) ions onto biomass from *Trifolium resupinatum*: equilibrium and kinetic studies, *Appl Water Sci*, 2013, 3, 665-672. DOI 10.1007/s13201-013-0115-0
 - S. Z. Ali, M. Athar, U. Farooq and M. Salman, Insight into Equilibrium and kinetics of the binding of Cadmium ions on radiation-modified straw from *Oryza sativa* *Journal of Applied Chemistry*, 2013, Volume 2013, Article ID 417180, 12 Pages
- Dr. Farah Kanwal
 - Aisha Batool, Farah Kanwal, Muhammad Imran, Tahir Jamil, Saadat Anwar Siddiqi. Synthesis of Polypyrrole/zinc oxide composites and study of their structural, thermal and electrical properties, *Synthetic Metals*, 161 (23-24), 2012, 2753-2758.
 - Muhammad Adnan Iqbal, Shujah Zaib, Rosenani A. Haque, Muhammad Imran, Narimah Samat, Farah Kanwal. Inhabitants close to the main roads at the outskirts of Metropolitan Cities are exposed more to SO_x; *Euclalyptus* Tree as Bioindicator, *Polish Journal of Environmental studies*, 21(2), 2012, 375-379.
 - Asmat Zahra, Muhammad Imran, Farah Kanwal. Comparative adsorption studies of methyl orange using different varieties of melon seeds as adsorbents, *Asian Journal of chemistry*, 24(6), 2012. 2668-2670.
 - Farah Kanwal, Aisha Batool, Saher Rauf Dar, Muhammad Jawwad Saif, Muhammad Imran. Synthesis and characterization of Polypyrrole/carbon nanotubes (Ppy-Cnts) composites, *Asian Journal of chemistry*, 24(11), 2012, 5035-5037.
 - Farah Kanwal, Muhammad Imran, Liviu Mitu, Zeeshan Rashid, Huma Razzaq, Qurat ul Ain. Removal of Chromium(III) using synthetic polymers, copolymers and their sulfonated derivatives as adsorbents, *E-Journal Chemistry*, 9(2), 2012, 621-630.



- Farah Kanwal, Rabia Rehman, Jamil Anwar, Muhammad Saeed. Batchwise removal of chromium(VI) by adsorption on novel synthesized polyaniline composites with various brans and isothermal modeling of equilibrium data. *Journal of the Chemical Society of Pakistan*, 34 (5), 2012, 1134-1139.
- Farah Kanwal, Rabia Rehman, Jamil Anwar, Muhammad Saeed. Removal of lead (II) from water by adsorption on novel composites of polyaniline with maize bran, wheat bran and rice bran. *Asian Journal of chemistry*, 25 (5), 2013, 2399-2404.
- Farah Kanwal, Rabia Rehman, Aisha Batool, Muhammad Saeed. Synthesis of novel composites of HCl-doped Polyaniline with Maize, Rice and Wheat flour and study of their structural, optical and conducting Properties. *Asian Journal of chemistry*, 25 (7), 2013, 3701-370.
- Rabia Rehman, Tariq Mahmud, Farah Kanwal, Muhammad Naeem Aslam, Rabia Latif, Hina Nisar. Chemical modification of *Oryza sativa* Linnaeus husk with Urea for removal of Brilliant Vital Red and Murexide dyes from water by adsorption in environmentally benign way, *Journal of the Chemical Society of Pakistan*, 35 (2), 2013, 510-515.
- Farah Kanwal, Aisha Batool, Madiha yaseen, Muhammad Imran. Synthesis and characterization of copolymer of styrene and acrylonitrile by emulsion and microemulsion polymerization using different emulsifiers. *Asian Journal of chemistry*, 25 (8), 2013, 4419-4422.
- Rabia Rehman, Muhammad Salman, Tariq Mahmud, Farah Kanwal, Waheed-Uz-Zaman. Utilization of chemically modified *Citrus reticulata* peels for biosorptive removal of Acid Yellow-73 dye from water, *Journal of the Chemical Society of Pakistan*, 35(3), 611-616 (2013).
- Farah Kanwal, Rabia Rehman, Sumbal Samson, Jamil Anwar Isothermal investigation of Copper (II) and Nickel (II) adsorption form water by Novel Synthesized Polyaniline composites with *Polyalthia longifolia* and *Alastonia scholaris* dried leaves, *Asian Journal of Chemistry*, 25(16), 9013-9019, 2013.
- Farah Kanwal, Rabia Rehman, Muhammad Waheed Mushtaq. Use of *Opuntia dillenii* seeds for sorptive removal of acidic textile dyes from water in benign way, *Asian Journal of Chemistry*, 25(14), 7710-7714, 2013.
- Dr. M.Abdul Qadir
 - S.Ata, Feroza Hahamd, M.Hamid Sarwar, M.A.Qadir et.al, "Monitoring of Anthropogenic influences on underground and surface water quality of Indus River at district Mianwali-Pakistan", *Turkish Biyokimya Dergisi [Turkish Journal of Biochemistry-Turk J Biochem]* 38(1);9-13, 2013
 - S.A.Ahmad, A.Gulzar, M.A.Qadir et.al, "Study of Arsenic in Drinking Water of Distric Kasur Pakistan", *World Applied Sciences Journal* 24 (5):634-640, 2013.



- M.Nadeem Zafar, S.A. Ahmad, M.A.Qadir et.al, "Electrochemical Separation of Alanine, Cystine and Glycine using a Digital Thruster", Separation Science and Technology, 48: 2707-2711, 2013.
- Sadia Ata, M.Imran Din, Ijaz Mohsin, Ahmad Mahir Razil, Akmal Shahzad Babar, M.Abdul Qadir, "Optimization of gas chromatographic analysis of halogenated acids in drinking water using full factorial experimental design", J. Desalination and Water Treatment, 49, 34-40 (2013)
- S.A.Ahmad, C.Potratz and M.A.Qadir, "Synthesis and stability study of a new bimetallic Complex (Ph₃P)CuMn(CO)₅; Asian Journal of Chemistry Vol. 25, No.3, 1597-1599 (2013)
- Dr. Muhammad Rouf Alvi
 - Silaphenolates and Silaphenylthiolates: Two Unexplored Unsaturated Silicon Compound Classes Influenced by Aromaticity. Molecules. 2012, 17, 369-389
- Zahoor H.Farooqi
 - Associative properties of hydrophilic tip modified oxyethylene-oxybutylene diblock copolymers in aqueous media: Effect of end-group. Journal of Applied Polymer Science. 2012, 124, 951-957
 - Interactions of ionic surfactants with PEO-PBO-PEO triblock copolymers in aqueous solutions. Journal of Dispersion Science and Technology. 2012, 33, 191-199.
 - Thermodynamics of adsorption and micellization of triblock copolymers of oxyethylene and oxybutylene in aqueous medium using surface tensiometry. Journal of Dispersion Science and Technology. 2013 (Accepted). (DOI:10.1080/01932691.2012.662434)
 - Synthesis and characterization of p(NIPAM-AA-AAm) microgels for tuning of optical Properties of silver nanoparticles. Journal of Polymer Research 2012, 19, 9950-9960
 - Synthesis, Characterization and Silver Nanoparticles Fabrication in N -isopropylacrylamide based Polymer Microgels for Rapid Degradation of p-Nitrophenol. Journal of Dispersion Science and Technology. 2013 (Accepted)

Encyclopedia Article

- Zahoor H. Farooqi and Mohammad Siddiq Smart Polymer Microgels and Hybrid Microgels: Biomedical Applications (Accepted for publication in the Encyclopedia of Biomedical Polymers and Polymeric Biomaterials (EBPP) published by Taylor & Francis Group).

Books

- Haq Nawaz Bhatti and Zahoor H. Farooqi, Modern Physical Chemistry for BS and M.Sc students published by The Caravan Book House, Anarkali Lahore.
- Haq Nawaz Bhatti and Zahoor H. Farooqi, Physical Chemistry Laboratory Manual for BS & M.Sc students published by The Caravan Book House, Anarkali Lahore.



- Haq Nawaz Bhatti and Zahoor H. Farooqi, Physical Chemistry Laboratory Manual for B.Sc students published by The Caravan Book House, Anarkali Lahore.

Journal Articles

- Abbas Khan, Zahoor H. Farooqi and Mohammad Siddiq Associative properties of hydrophilic tip modified oxyethylene-oxybutylenediblock copolymers in aqueous media: Effect of end-group. Journal of Applied Polymer Science 2012, 124, 951-957. (IF=1.395)
- Zaheer Ahmad, Abbas Khan, Zahoor H. Farooqi, Khalid Muhammad and Mohammad Siddiq Interactions of ionic surfactants with PEO-PBO-PEO triblock copolymers in aqueous solutions. Journal of Dispersion Science and Technology 2012, 33, 191-199. (IF=0.600)
- Zahoor H. Farooqi, Abbas Khan, Muhammad Usman and Mohammad Siddiq Thermodynamics of adsorption and micellization of triblock copolymers of oxyethylene and oxybutylene in aqueous medium using surface tensiometry. Journal of Dispersion Science and Technology 2013, 34, 400-405. (IF=0.600)
- Hina Naeem, Zahoor H. Farooqi, Luqman Ali Shah and Mohammad Siddiq Synthesis and characterization of p(NIPAM-AA-AAm) microgels for tuning of optical Properties of silver nanoparticles. Journal of Polymer Research 2012, 19, 9950-9960 (IF=2.019)
- Shanza Rauf Khan, Zahoor H. Farooqi, Muhammad Ajmal and Mohammad Siddiq Synthesis, Characterization and Silver Nanoparticles Fabrication in N-isopropylacrylamide based Polymer Microgels for Rapid Degradation of p-Nitrophenol Journal of Dispersion Science and Technology 2013, 34, 1324,1334 (IF=0.600)
- Luqman Ali Shah, Zahoor H. Farooqi, Hina Naeem and Mohammad Siddiq Synthesis and Optical Studies of Silver Nanoparticles (Ag NPs) and Smart Polymer Microgel Hybrids (Accepted for publication in Journal of the Chemical Society of Pakistan) (IF=1.377)
- Muhammad Usman, Muhammad Arif Cheema, Abbas Khan, Zahoor Hussain Farooqi, Victor Mosquera and Mohammad Siddiq A comparative study of thermodynamic properties of structurally related Phenothiazine drugs in aqueous medium. Journal of The Chilean Chemical Society 2013, 58 (3), 1651-1654. (IF=0.376)
- Zahoor H. Farooqi, Hafeez Ullah Khan, Syed Mujtaba Shah and Mohammad Siddiq Stability of Poly(N-isopropylacrylamide-co-acrylic acid) Polymer Microgels Under Various Conditions of Temperature, pH and Salt Concentration. Arabian Journal of Chemistry (Accepted) (IF=2.266)
- Muhammad Ajmal, Zahoor H. Farooqi, Mohammad Siddiq Silver Nanoparticles Fabricated Hybrid Polymer Microgels with Tunable Surface Plasmon Resonance and Catalytic Activity (Accepted) (IF=1.059)

Papers Accepted/Presented in National and International Conferences

- Paper accepted in International Conference on Physical & Environmental Chemistry (ICPEC-2013) organized by National Center of Excellence in Physical Chemistry, University of Peshawar, Summer Campus, Bara Gali, District Abbotabad dated September 9-11, 2013.
- Paper accepted for poster presentation in the 3rd International Symposium-Frontiers in Polymer Science 2013 in association with the journal Polymer 20-23 May 2013 Sitges (Barcelona), Spain.
- Paper presented in the 11th International and 23rd National Chemistry Conference 2012, University of Peshawar, October 15-17, 2012.
- Dr. Adnan Mujahid
 - Adeel Afzal, Naseer Iqbal, Adnan Mujahid, Romana Schirhagl. Advanced vapor recognition materials for selective and fast responsive surface acoustic wave sensors: A review Analytical Chimica Acta. Volume 787, 17 July 2013, Pages 36–49
 - Adnan Mujahid, Muhammad Umar Farooq, Ayesha Hameed, Tajamal Hussain, Asma Tufail Shah, Sana Ahmad, Khurram Shehzad. Quantitative degradation monitoring in core and enteric coated aspirin tablets. International Journal of Current Pharmaceutical Research. Vol 5, Issue 4, 2013
 - Khurram Shehzad, Asad Ul-Haq, Shahabaz Ahmad, Muhamamd Mumtaz, Tajamal Hussain, Adnan Mujahid, Asma Tufail Shah, Muhammad Yasir Choudhry, Irshad Khokhar, Sadaf Ul-Hassan, Faisal Nawaz, Faiz ur Rahman, Yasir Butt, Muhammad Pervaiz. All-organic PANI–DBSA/PVDF dielectric composites with unique electrical properties. Journal of Materials Science. May 2013, Volume 48, Issue 10, pp 3737-3744
 - Adnan Mujahid, Franz L. Dickert. Monitoring automotive oil degradation: analytical tools and onboard sensing technologies. Analytical and Bioanalytical Chemistry. September 2012, Volume 404, Issue 4, pp 1197-1209
- Muhammad Imran Din
 - Asma Tufail Shah, Muhammad Imran Din, Umar Farooq, Mira Tul Zubaid Butt, Makshoof Athar, M. Amjad Chaudhary, Mirza Nadeem Ahmad, M. Latif Mirza, Fabrication of Nickel nanoparticles modified electrode by reverse microemulsion method and its application in electrolytic oxidation of Ethanol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 405 (2012) 19-21. (I.F= 2.236)
 - Sadia Ata, M. Imran Din, Ijaz ul Mohsin, Ahmad Mahir Razil, Akmal Shahzad Babar, M. Abdul Qadir, Optimization of gas chromatographic analysis of halogenated acids in drinking water using full factorial experimental design. Desalination and Water Treatment 49 (2012) 34–40. (I.F=0.852)



- Zaib Hussain, Muhammad Imran Din, Stability Kinetics Evaluation of Pharmaceutical Drug Products. Archives Des Sciences. Vol 65, No. 2. (2012) 20-37. (I.F=0.462)
- Sadia Ata, M. Imran Din, Ijaz ul Mohsin, Equilibrium, Thermodynamics, and Kinetic Sorption Studies for the Removal of Coomassie Brilliant Blue on Wheat Bran as a Low-Cost Adsorbent. Journal of Analytical Methods in Chemistry. 1-8(2012). (I.F=0.4)
- Sadia Ata, M. Imran Din, Biosorptive removal of lead and cadmium ions from aqueous solution: The use of carrot residues as low cost non-conventional adsorbent. Turkish Journal of Biochemistry; 37 (3) (2012) 272–279 (I.F=0.378)
- **Conferences, Seminars & Workshops etc.**
 - Muhammad Imran Din
 - Paper presented in 11th International and 23rd National Chemistry Conference organized by Center of Excellence in Physical Chemistry, University of Peshawar, October 15-17, 2012. “Microwave Treated Saccharum Bengalense as an Eco Friendly Biosorbent for the Removal of Toxic Congo Red Dye From Aqueous Solution-A Green approach”

RESEARCH COLLABORATION

- **Indigenous**
 - PCSIR, Ferozpur Road, Lahore.
 - HEJ, Karachi.
 - PINSTECH, Islamabad.
 - NIBJI, Faisalabad.
 - ANMOL, Lahore.

INSTITUTE OF GEOLOGY

- **Research & Development – An Overview**
 - The Institute of Geology is one of the earliest departments of the Punjab University, providing the trained indigenous workforce equipped with strong academic background in natural resources exploration and related issues. Over the years, the Institute of Geology has evolved to hold a unique position in the country in geologic education. Bachelor of Science degree being offered at the Institute of Geology blends theory, observation, laboratory studies and integration of basic sciences with special emphasis on fieldwork. While M.Phil in Applied Geology is a professional career oriented program, having diversified fields of specialization addressing major areas of geosciences, enabling the students to take up specialized professional career as geologists in industry and to be prepared to step forward to higher education in a specific field of geology.



- **Projects (i) Completed**

During the report period (2012-2013) following research projects have been completed by the faculty members at the Institute.

Sr. No.	Projects Title	Investigator	Amount (Rs. million)	Sponsoring Agency	Duration (year)
1.	Assessment of Impact of the mineral composition and texture on the engineering properties of various limestone of Salt Range	Prof. Dr. M. Saeed Farooq	0.250	University of the Punjab, Lahore	01
2.	Decoloration of Denim Fabric by Advanced Oxidation Method	Prof. Dr. Nasir Ahmad	0.250	University of the Punjab, Lahore	01
3.	Biostratigraphy of Chorgali Formation, Potowar area, North Pakistan	Dr. Shahid Jamil Sameeni Associate Prof.	0.20	University of the Punjab, Lahore	01
4.	Geological hazard Analysis in Earthquake affected areas of AJK by using Spatial Technologies	Dr. Sajid Rashid Ahmad Assistant Prof.	0.150	University of the Punjab, Lahore	01
5.	Microfacies and Depositional Environment of Lumshiwai Formation, SE Hazara Basin, NW Lesser Himalayas, Pakistan	Dr. Naveed Ahsan Assistant Prof.	0.150	University of the Punjab, Lahore	01
6.	Sedimentology of the Cambrian Khewra Sandstone and Kussak Formation, Central Salt Range, Pakistan	Dr. Shahid Ghazi Assistant Prof.	0.150	University of the Punjab, Lahore	03
7.	Rock Physics Modeling for Seismic Evaluation of Hydrocarbon	Mr. Zia ud Din Assistant Prof.	0.150	University of the Punjab, Lahore	01
8.	Formation Evaluation and Pretrophysical attributes of Unconventional Reservoirs in Pakistan	Dr. Pervez Khalid Assistant Prof.	0.150	University of the Punjab, Lahore	01
9.	Correlation of Uniaxial Compressive Strength(UCS), Point Load Strength Index(Is50) and Schmidt hardness of Various Rock units of Salt Range, Pakistan	Dr. Mian Sohail Akram	0.150	University of the Punjab, Lahore	01
10.	Sakasar (Eocene) Limestone- A Source of Coarse Aggregate for Construction material in Potwar Area	Rana Ammad Bin Sadiq Lecturer	0.125	University of the Punjab, Lahore	01
11.	Evaluation of Hydrocarbon Prospects of (SPDZ) Southern Potwar Deformed Zone, potwar Sub Basin, Pakistan	Mr. Muhammad Armaghan Faisal Lecturer	0.125	University of the Punjab, Lahore	01



Sr. No.	Projects Title	Investigator	Amount (Rs. million)	Sponsoring Agency	Duration (year)
12.	Water Quality Analysis by Geochemical and Isotopic Techniques in Faisalabad District, Pakistan	Mr. Muhammad Sanaullah Lecturer	0.125	University of the Punjab, Lahore	01

- **Projects (ii) Newly Launched**

During the report period (2012-2013) following research projects have been initiated by the faculty members at the Institute.

Sr. No.	Projects Title	Investigator	Amount (Rs. million)	Sponsoring Agency	Duration (year)
1.	Evaluation of indirect methods for the determination of Uniaxial compressive strength of tertiary limestones.	Prod. Dr. M. Saeed Farooq	0.250	University of the Punjab, Lahore	01
2.	Biostratigraphy of the Upper Paleocene Lockhart Limestone of Kala Chitta Area, Northern Pakistan	Dr. Shahid Jamil Sameeni	0.20	University of the Punjab, Lahore	01
3.	Application of Geographic Information System and remote sensing for spatial distribution of estimated above ground biomass(AGB) for carbon stock in Ayubia National Park, Kpk, Pakistan	Dr. Sajid Rashid Ahmad	0.150	University of the Punjab, Lahore	01
4.	Depositional Framework for Upper Cretaceous Rocks Exposed North of Nathiagali Thrust, Hazara NW Lessr Himalayas, Pakistan	Dr. Naveed Ahsan	0.150	University of the Punjab, Lahore	01
5.	Sedimentology of the Lower Eocene Sakesar Limestone, Salt Range, Pakistan.	Dr. Shahid Ghazi	0.70	Pakistan Science Foundation	03
6.	Sedimentology of the Early Eocene Sequence, Central Salt Range, Pakistan	Dr. Shahid Ghazi	0.150	University of the Punjab, Lahore	01
7.	Carbonate Microfacies Analysis and Diagenetic Framework of the Paleocene Lockhart Limestone Nammal Gorge, Western Salt Range, Pakistan	Dr. Abdur Rauf Nizami	0.150	University of the Punjab, Lahore	01
8.	Correlation of mineral and mechanical properties of Salt Range Rocks	Dr. Mian Sohail Akram	0.150	University of the Punjab, Lahore	01



Sr. No.	Projects Title	Investigator	Amount (Rs. million)	Sponsoring Agency	Duration (year)
9.	Sedimentology and Biostratigraphy of the Paleocene Lockhart Limestone of Jabri Area, Hazara, Northern, Pakistan.	Mr. Adnan Abdul Karim	0.125	University of the Punjab, Lahore	01
10.	Identification and Evaluation of Stream Sediments for Construction Materials of Potwar Region, Pakistan.	Mr. Rana Ammad Bin Sadiq	0.125	University of the Punjab, Lahore	01
11.	Subsurface Structural Interpretation of Mayal Area, North Potwar Deformed Zone (NPDZ) and Fracture Analysis of Sakesar Limestone, Potwar Area, Pakistan	Mr. Muhammad Armaghan Faisal Miraj	0.125	University of the Punjab, Lahore	01
12.	Estimation of Arsenic concentration in ground water in the selected areas of Rachna-Doaab, Northern Punjab, Pakistan	Mr. Muhammad Sanaullah	0.125	University of the Punjab, Lahore	01
13.	Water quality analysis of Lahore, Kasur and Faisalabad using GIS Technique	Ms. Sidra Sana	0.125	University of the Punjab, Lahore	01

- **Publications**

Following research papers have been published by the faculty members during the report period.

- Prof. Dr. M. Saeed Farooq
 - Saeed Farooq, Sohail A, Salman F, and Kashif HM, (2013) Geotechnical Studies and Stability Analysis of Miachar Landslide in Hunza Valley, Baltistan, Pakistan. Proceedings of 13th National Conference on Geotechnical Engineering, Lahore, Pakistan, 2013.
- Prof. Dr. Nasir Ahmad
 - Mashiatullah, A., Chaudhry M.Z., Ahmad, N., Javed, T. and Ghaffar, A. (2013). Metal pollution and Ecological Risk Assessment in Marine Sediments of Karachi Coast, Pakistan. Environmental Monitoring Assessment, 185: 5515-5565.
 - Chaudhry, M.Z., Ahmad, N., Mashiatullah, A, Munir, S. and Javed, T. (2013). Assessment of Metals Concentration and Ecotoxicology of the Se Core of Rehri Creek, Karachi Coast, Pakistan, ACTA GEOLOGICA SINICA, 87(05): 1434-1443.
 - Chaudhry, M.Z., Ahmad, N., Mashiatullah, A, Ahmad. N, Ghaffar A. (2013). Geochemical assessment of metal concentrations in sediment core of Korangi Creek along Karachi Coast, Pakistan. Environmental Monitoring and Assessment, 185: 6677-6691.
 - Shaik, I.A. & Ahmad, N. (2012). A Pilot-Scale Study to removed Hydrolyzed Reactive Dyes using Direct Injection of Ozone in Jet Dyeing Machine, AATCC Review, Accepted.



- Qureshi, K.N., Ahmad, N. and Richter, A. (2012). Calibration and Performance Evaluation of Spring Wheat Model in Pakistan, Field Crop Research, (under review, 2nd revision).
- Dr. Shahid Jamil Sameeni
 - S.J. Sameeni, H. Siddiq, Rabia I., Sara S., Ali A. & Khizer K. Biostratigraphy of Chorgali Formation, Bochal and Pir Makhdum Jahanian area, Salt Range, Northern Pakistan. 2nd GEOS2013, Phuket, Thailand. Abstract Vol.22 GSTF Jour. Vol.2, p 46-50.(2013)
 - N. Ahmad, Ahsan N., S.J. Sameeni, Armaghan F., Babar Khan, Sedimentology and Reservoir Potential of the Lower Eocene Sakesar Limestone of Dandot area, Eastern Salt Range, Distt. Chakwal, Pakistan. Sci. Int. (Lahore), p 521-529.(2013)
 - S.J. Sameeni, Haneef M., Farhan S., Ahsan N., N. Ahmad Biostratigraphic studies of Lockhart Limestone, Changlagali area, Nathiagali road, Hazara, Northern Pakistan. Sci. Int. (Lahore), p 543-550,(2013)
 - N. Ahmad, Ahsan N., Sameeni, S.J, Armaghan F., Babar Khan Sedimentology of the early middle Cambrian Jutana Formation of Khewra area, eastern Salt Range, Distt. Chakwal, Pakistan. Sci. Int. (Lahore), p 551-558,(2013).
 - S.J. Sameeni, Arsalan A., N. Ahmad, Ahsan N. Biostratigraphy of Chorgali Formation, Jhalar area, Kalachitta Range, Northern Pakistan. Sci. Int. (Lahore), p 567-577(2013).
 - S.J. Sameeni, Rabia Imtiaz, Hajra Saleem, Mohammad Haneef and Humaira Naz (2012). Biostratigraphy of the Patala Formation, Makarwal Area, Surghar Range, Northern Pakistan, Journal of Himalayan Earth Sciences, Abstract Vol. No. 45(2), p-90.
- Dr. Sajid Rashid Ahmad
 - Ahmad, S.R. and Lakhan, V.C. (2012). GIS-Based Analysis and Modelling of Coastline Advance and Retreat Along the Coast of Guyana. Marine Geodesy, Marine Geodesy: An International Journal of Ocean Surveys, Mapping and Sensing 35:1-15.
 - Ahmad, S.R., Ghazi, S., Sharif, S., Khan, M.S. and Mahmood, S.A. (2012). Cyclicity and lithofacies modelling by application of Markov chain analysis to the Warchha Sandstone, Salt Range, Pakistan, Pakistan Journal of Science, 64(3)232-241.
 - Ahmad, S.R. (2012). Sewage Water Intrusion in the Groundwater of Lahore, its Causes and Protections, Pakistan Journal of Nutrition, 11(05)484-488
 - Ahmad, S.R. (2012). Surface Deformation through Fractal Analysis of DEM Based Spatial Drainage Patterns in Gilgit Baltistan Region (Northern Pakistan), Pakistan Journal of Science, 64(2)163-172.
 - Ahmad, S.R. (2012) DEM Based Geomorphic analysis along Kalabag Fault and Potwar Plateau to constrain surface deformation: Inferences from Remote Sensing and GIS, Pakistan Journal of Science, 64(01)20-23.



- Ahmad, S.R. (2012) Determination of Effects of Khanpur Dam Reservoir on Nutrition Source of Groundwater, Pakistan Journal of Nutrition, 11(09)735-738.
- Ahmad, S.R. (2012). Estimation and Distribution of Nitrate Contamination in Groundwater of Wah Town, its Causes and Management, Pakistan Journal of Nutrition, 11(4), 332-335.
- Ahmad, S.R, A.K. Ghalib and S.A. Mahmood (2013). GIS-Based Hostel Management System for Punjab University, Quaid-e-Azam Cmpus, Lahore Punjab, Pakistan, Pakistan Journal of Science, 65(01): 150-157
- Ahmad, S.R., U. Ahmad and A. Masood (2013). Geo Spatial Tehniques in Selection of Potential Damsite, Pakistan Journal of Science, 65(01): 158-166.
- Ahmad. S.R., S.A. Mahmood, A. Masood and J. Qureshi (2013). DEM Based Computation of Topographic Surface Roughness to Reveal incision in Gilgit-Balistan, Pakistan, Pakistan Journal of Science, 65(01): 167-172.
- Ahmad, S.R., Khan, M.S., Khan, A., Ghazi, S. and Ali, S. (2012). Sewage Water Intrusion in the Groundwater of Lahore, its Causes and Protections, Pakistan Journal of Nutrition, 11(05): 484-488.
- Ghazi, S., Ahmad, S.R., Sharif, S. (2012) Well log study and Petrophysical properties of the Early Permian Warcha Sandstone, Potwar Basin, Pakistan Journal of Science, 64(03): 173-179
- Khan, M.S. and Ahmad, S.R. (2012), Microbiological contamination groundwater of Wah area, Pakistan Journal of Science, 64(01): 20-23.
- Dr. Shahid Ghazi
 - Ghazi, S., Ahmad, S.R., Sharif, S. (2012) Well log study and Petrophysical properties of the Early Permian Warcha Sandstone, Potwar Basin, Pakistan Journal of Science, 64(03): 173-179
 - Ahmad, S.R., Ghazi, S., Sharif, S., Khan, M.S. and Mahmood, S.A. (2012). Cyclicity and lithofacies modelling by application of Markov chain analysis to the Warchha Sandstone, Salt Range, Pakistan, Pakistan Journal of Science, 64(3)232-241.
- Dr. Abdur Rauf Nizami
 - Nizami, A.R. (2012), Preparation of Industrial Chemicals by Acid Leaching from the Koga Nepheline Syenite, Southern Swat, Lesser Himalayas-Pakistan, Jour. Chem. Soc. Pakistan, 34(3)pp 570-574
 - Nizami, A.R. and Masood, T.R. (2012), Developments in the Techniques of Earthquake Prediction in the Preview of Disaster Preparedeness and Risk Reduction, Proceedings of 2nd International Disaster Management Conference (IDMC-2010) held from October 19-21, 2010 at Baragali Summer Campus, University of Peshawar, p. 111-126.
 - Nizami, A.R., Razi, S.A., Hamid, K., and Gohar, K.I. (2012), Microfacies and Diagenetic Framework of the Lauralai Formation Khader Zai Nala Section, Western Sulaiman Range, Pakistan, Journal of Himalayan Earth Sciences, No. 45(2), P 82.



- Dr. Mian Sohail Akram
 - Saeed Farooq, Akram S, Farooq S & Kashif HM (2013) Geotechnical studies and stability analysis of Maiachar Landslide in Hunza valley, Baltistan, Pakistan
- Dr. Pervez Khalid
 - Ali T. Din, Z. Khalid P. and Ahmed N.(2013) Effects of Pore Fluid on Seismic and Elastic Properties of Reservoir Rock of Injra-01 Western Potwar, Pakistan published in SPE-PAPG Annual Technical Conference(ATC) held on 25-27 Nov, 2013, pg# 82, Islamabad, Pakistan
 - Khalid P. and Ghazi S., (2013) Discrimination of Fizz Water and Gas Reservoir by AVO analysis: A modified approach, published in Acta Geodaetica et Geophysica, Vol. 48, No. 3, 347-361. 1.F. 0.347
 - Khalid P. Broseta D. Nichita D.V. and Blanco J., (2013) A Modified Rock Physics Model for Analysis of Seismic Signatures of Low Gas-Saturated Rocks, published in journal of Arab J Geosciences DOI 10.14007/s 12517-013-1024-0..i.f. 0.74
 - Ejaz W. Din Z. Yasin Q. and Khalid P., (2012). Study of Source Potential in PRE-PERMIAN Sediments by sing Well Log Analysis and Vitrinite Reflectance of Central Indus Basin (Punjab Platform), published in SPE-PAPG Annual Technical Conference (ATC) held on 4-5 Dec. 2012, Islamabad, pg 438-441.
 - Afzal M.H. Yasin Q. Khalid P. and Ahmed N., (2012). Static Corrections-A Fundamental Problem in Seismic Data Processing, A study of Central Indus Basin (Punjab Platform), published in SPE-PAPG Annual Technical Conference (ATC) held on 4-5 Dec. 2012, pg 442-444
- Muhammad Sanaullah
 - Sanaullah, M. Ahmad, A.(2013). Morphometric Relation to the geological structures of Haro River drainage basin, northern Pakistan, Proceeding of 10th meeting of the Saudi Society for Geosciences held from 15th -17th April, 2013 at KFUPM, Dhahran, Saudi Arabia, pp 133.
- **Conferences, Seminars & Workshops etc.**
 - **Organized:**
 - A Workshop on "basic GIS- Short Training Course" from September-October, 2013.
 - Two days Workshop on "3D Seismic Survey and attributes analysis" from April 5-6, 2013.
 - A short course on "Applied Numerical Methods with METLAB" from March 11-15, 2013.
 - A seminar on "Use of Remote Sensing for Carbon Stock assessment- a climate change mitigation" held on November 12, 2012.
 - **Participated:**
 - Dr. Nazir Ahmad, Associate Professor and Mr. Muhammad Armaghan Faisal Miraj Lecturer participated in SPE-PAPG Annual Technical Conference (ATC-2012) held on December 3-5, 2012 at Serena Hotel, Islamabad.



- Dr. Sajid Rashid Ahmad Assistant Professor attended the 1st International Conference on "Global Environmental Changes" held at GC University, Faisalabad from January 15-16, 2013.
- Dr. Nazir Ahmad, Associate Professor and Mr. Muhammad Armaghan Faisal Miraj Lecture attended the International Conference on Conventional and Unconventional Hydrocarbon Potential Pakistan "(PROSPECTS AND STRATIGRAPHIES" held at Bara Gali (Abbottabad) from May 25-27, 2013.
- Dr. Sajid Rashid Ahmad Assistant Professor attended a short course on "advanced Geo spatial Disaster Management Techniques at IST, Islamabad from February 11-14, 2013.
- Dr. Sajid Rashid Ahmad Assistant Professor attended a symposium on "innovation and advances in Mineral Resources Exploration, Identification, extraction, processing and sustainable mining practices" held at National University of Science and Technology (NUST), Islamabad from June 17-22, 2013.
- Dr. Sajid Rashid Ahmad Assistant Professor attended the third International Conference on "Aerospace Science and Engineering (ICASE- 2013)" held at Islamabad from August 21-23, 2013.
- Mr. Muhammad Sanaullah Lecturer attended a two days workshop on Faculty Professional Development held from June 19-20, 2013 at Institute of Agriculture Sciences PU Lahore.
- Mr. Muhammad Sanaullah, Lecturer participated and presented a research paper in the "10th meeting of the Saudi Society for Geosciences held from 15-17 April, 2013 at KFUPM, Dhahran, Saudi Arabia.
- **Research Journals**
 - Institute of Geology publishes an annual research journal "The Geological Bulletin of the Punjab University" up-coming vol. 48 is under process.

RESEARCH COLLABORATION

- **Indigenous**
 - MoU for collaborative research with department of Geological Engineering, University of Engineering & Technology, Lahore
 - Research collaboration with Pakistan Association of Petroleum Geologists (PAPG).
 - Research collaboration with Oil & Gas Training Institute (OGTI) and Oil & Gas Development Corporation (OGDCL), Islamabad.
 - Research Collaboration with Pakistan Petroleum Limited(PPL), Karachi
- **Foreign Linkages**
 - Linkages with Seismic Micro Technology Inc. Katy Freeway, Houston Texas, USA.
 - Hydrological Institute, Sweden
 - M/S Thies, Germany



- **Funding Grants for R&D**

- Following faculty members of the Institute of Geology got funding from Pakistan Science Foundation (PSF) against the following research projects.

Sr. No.	Projects Title	Investigator	Amount (Rs. Million)	Sponsoring Agency
1	Sedimentology of Petroleum bearing carbonate rocks of Paleocene age Kohat, Potwar area of Upper Indus Basin	Dr. Nazir Ahmad	0.7	Pakistan Science Foundation (PSF)
2	Sedimentological Studies of the Lower Eocene Sakesar Limestone Salt Range Pakistan.	Dr. Shahid Ghazi	0.535	-do-

PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY

- **Research & Development – An Overview**

In order to promote the research culture and activities, a research advisory committee has been constituted, which is responsible for setting up guidelines pertaining to MPhil and PhD degree programs, as well.

Furthermore, research labs in the following areas have been established:

- Computer Vision
- Robotics
- Parallel and Distributed Computing
- Open Source Software Development
- Artificial Intelligence Lab.

The above mentioned labs are being used for conducting research, by the graduate students.

- **Publications**

Sr. No.	Name of Author	Title of Paper/Article
1	Akram, M, Jun, Y. B., Al-Shehrie N. O. and S. Sarwar	"N-structures applied to graphs World Applied Sciences Journal 22 (2013)1-8" Scopus Impact Factor 0.162
2	Muhammad Akram · Saadia Shahzad · Arif Butt · Abdul Khaliq	Intuitionistic Fuzzy Logic Control for Heater Fans. Published in journal of Mathematics in Computer Science 11768, Article: 161 SCOPUS Impact Factor 0.43
3	Hoogendoorn, M., Jaffry, S.W., Maanen, P.P. van, and Treur, J.,	Modelling Biased Human Trust Dynamics, Web Intelligence and Agent Systems: An International Journal (WIAS), vol. 11, no. 1, IOS Press, 2013, pp. 1-21 (Impact factor Nil)



Sr. No.	Name of Author	Title of Paper/Article
4	Jaffry, S.W., and Treur, J.,	Agent-Based and Population-Based Modelling of Trust Dynamics, Transactions on Computational Collective Intelligence (TCCI), vol. 9, Springer Verlag, 2013, pp 124-151 (Impact factor Nil)
5	Arts, M., Avital, M., Bennamar, K., Besselink, T., Boog, W., Collard, P., Colton, S., Corneille, S., Germans, D., Gielink, S., Hanson, A., Hanson, D., Hekkert, P., Hoekendijk, C., Hoorn, J. F., Jaffry, S. W., Jensenius, H., Krabbendam, D., Kresin, F., Kuipers, A., Kuipers, T., Lee, M., Lindenberg, V., Lowe, J., Straffon, L. Miller, A. I., Molella, A., Olthof, T., Ott, C., Otte, M., Poelman, W., Pontier, M., Postma, A., Roosendaal, L., Rump, V., Runco, M., Smeulders, A., Taylor, R., van den Herik, J., van der Kooij, K., van der Sloot, J., van der Veen, O., van Dijk, G., van Gorsel, P., van Rosmalen, B., van Uden, J., Werner, J.,	Book on "Organic Creativity and Physics Within, 2013", by John Benjamins Publishing.
6	Muhammad Murtaza Yousaf, Michael Welzl,	"On the Accurate Identification of Network Paths having a Common Bottleneck", The Scientific World Journal, Impact Factor 1.730, (accepted for publication in September 2013)
7	Aasim Ali, Arshad Hussain, and Muhammad Kamran Malik	"Model for English-Urdu Statistical Machine Translation World Applied Sciences Journal 24 (10), 1362-1367, 2013. ISSN 1818-4952 (indexed: ISI, Scopus) Impact Factor 0.162
8	Faisal Bukhari and Mathew N. Dailey	Automatic Radial Distortion from a Single Image Journal of Mathematical Imaging and Vision January 2013, Volume 45, Issue 1, pp 31-45. Impact Factor 1.767
9	Sidra Faisal, Mansoor Sarwar	Temporal and Multi-Versioned XML Documents: A Survey – Information Processing & Management (IPM) – 0.817
10	Muhammad Shahid Farid, Arif Mahmood	An image composition algorithm for handling global visual effects. Multimedia Tools and applications Nov. 30, 2012. Impact factor 1.014

• **Conferences, Seminars & Workshops etc.**

Sr. No.	Name of Author	Conference Publication
1	Haris, M., Jaffry, S. W.,	An Object Based Conceptual Framework for Location Based Social Networking. In: Proceedings of International Workshop on Location-Based Social Networks (LBSN'13) associated with the



Sr. No.	Name of Author	Conference Publication
		21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, November 5-8, 2013, Orlando, Florida, USA.
2	Saeed, A., R., Jaffry, S. W.,	Information Mining from Islamic Scriptures. In: Proceedings of The 4th Workshop on South and Southeast Asian Natural Language Processing (WSSANLP) associated with the International Joint Conference on Natural Language Processing (IJCNLP), Nagoya, Japan, October 14th - 18th, 2013. Asian Federation of Natural Language Processing, 2013, to appear.
3	Latif, I., Jaffry, S. W.,	A Survey on Trust Evaluation Mechanisms for Wikipedia. In: Proceedings of the International Workshop on Social Natural Language Processing (SocialNLP) in conjunction with 6th International Joint Conference on Natural Language Processing (IJCNLP), Nagoya, Japan, October 14th - 18th, 2013. Asian Federation of Natural Language Processing, 2013, to appear.
4	Mansoor, F., Rohail, M., Jaffry S. W.,	Empirical Validation for Human Decision Making. In: Proceedings of the Seventh International Workshop on Human Aspects in Ambient Intelligence (HAI) in International Conference on Intelligent Agent Technology (IAT'13), Atlanta, GA, USA, November 17th - 20th, 2013. IEEE Computer Society Press, 2013, to appear.
5	Fawaz S. Bokhari, Gergely Zaruba	i-POCA: Interference-aware partially overlapping channel assignment in 802.11-based meshes Conference: IEEE WoWMoM 2013
6	Muhammad Shahid Farid, Maurizio Lucenteforte, Marco Grangetto	Depth Image Based Rendering with Inverse Mapping Sep. 30, 2013
7	Muhammad Shahid Farid, Maurizio Lucenteforte, Marco Grangetto	Edges shape enforcement for visual enhancement of depth image based rendering Sep. 30, 2013
8	M. Shahid Farid, Mian Muhammad Mubasher, Abdul Khaliq, Muhammad Murtaza Yousaf	, "A Parallel Algorithm for Change Detection" in publication in 15th IEEE International Multi Topic Conference (INMIC), Dec. 2012
9	Muhammad Haris	An Object Based Conceptual Framework for Location Based Social Networking International Workshop on Location-Based Social Networks (LBSN'13) associated with the 21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, November 5-8, 2013, Orlando, Florida, USA.

SCHOOL OF PHYSICAL SCIENCES

• Research & Development – An Overview

- School of Physical Sciences has state of the art equipments in the field of physical, biochemical and molecular sciences placed at SPS building and list of these equipments is following:-



- PCR machine, Gel electrophoresis system for DNA and Proteins, Gas Chromatograph, UV transilluminator, X-Ray Diffractometer, HPLC system, Food and Beverage Analyzer, CHNS Analyzer, Gerhardt Kjeldatherm Digestion system and Vapodest distillation titration system, Temperature controlled incubators, Keithley Semiconductor Characterization System, Precision Impedance Analyzer, Automatic Weather Station, UV Spectrophotometer, Rotatory Evaporator, High speed centrifuge and Karlfisher titration analyzer.
- Above equipments are available for the researchers to carry out research in their designated fields. Standard Operating Procedures have been prepared to use these equipments. Currently conditions are being optimized to use these equipments for the analysis of different compounds.
- **Projects (i) Completed**
 - From School of Physical Sciences up till now 13 M. Phil students of different departments have completed their research projects related to physical, biochemical and molecular sciences by using resources of School of Physical Sciences, University of the Punjab, Lahore.
- **(ii) Newly Launched**
 - Currently 04 M. Phil and 05 Ph. D students of different other departments and Universities are using Laboratories of School of Physical Sciences in their research projects.
- **Publications**
 - Fawzia Tabassum, Basharat Ali, Rukhshan Khurshid and Irshad Khokar (2013). Prevalence of antibodies to Hepatitis C virus among the population of Lahore City, Pakistan. Pak. J. of Zoology, 45(13): 1312-13.
 - Fawzia Tabassum, Nasir Mahmood, Basharat Ali, Rukhshan Khurshid and Irshad Khokar (2013). Analysis of serum marker proteins in hepatitis C patients. International Conference on Solid State Physics, December 01-06, 2013. (Presented and Accepted for Publication).
 - M. Khalid, S. Riaz and S. Naseem, "Theoretical Investigation of Breakdown Voltage in Normally-On 4H-SiC VJFET", Advanced Science Letters, 19, 820-823 (2013)
 - A. Bukhtiar, M. A. Mustafa, M. Umer, M. Khalid, S. Riaz and S. Naseem, "Comparison Study of Impact Ionization for FinFET and FD SOI device by using TCAD", Advanced Science Letters, 19, 780-784 (2013)
 - A. Bukhtiar, M. A. Mustafa, M. Umer, M. Khalid, S. Riaz and S. Naseem "Study of Impact Ionization in 3D FinFET Structure by varying channel doping concentration at higher Temperature Using SYNOPSIS TCAD", Advanced Science Letters, 19, 753-759 (2013)
 - M. Khalid, S. Riaz and S. Naseem, Simulation and Analysis of Static and dynamic Performance of Normally-off 4H-SiC Trenched and Implanted VJFET Using Sentaurus TCAD (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).



- M. Khalid, S. Riaz, A. E. Grekov, E. Santi and S. Naseem, High Breakdown Voltage Characteristics in Normally-off 4H-SiC VJFET using TCAD Simulation (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).
- M. Khalid, S. Riaz and S. Naseem, Simulation and Analysis of Electrical Characteristics of 4H-SiC/Pt Schottky barrier diode (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).
- M. Khalid, S. Riaz and S. Naseem, Normally-on 4H-SiC Vertical Junction Field Effect Transistor (VJFET): Design and Analysis using TCAD Simulation (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).
- M. Khalid, M. Ahmed, S. Riaz and S. Naseem, Study of Temperature Dependent Punch-Through Behavior in 4H-SiC VJFET: TCAD Simulation (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).
- M. Khalid, M. Ahmed, S. Riaz and S. Naseem, Theoretical Investigation of Bipolar Effect in 4H-SiC VJFET (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).
- A. Batool, F. Kanwal, A. Abbas, S. Riaz and S. Naseem, Novel Method to Synthesize Highly Conducting Polyaniline/Nickle Sulphide Nanocomposite Films and the Study of Their Structural, Magnetic and Electrical Properties (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).
- A. Batool, F. Kanwal, S. Atiq, S. Riaz and S. Naseem, Effect of Lutnesol xl 80 (as non ionic surfactant) on the Structural and Dielectric Behavior of Polypyrrole/Maghemite (PPy/Fe₃O₄) Nanocomposites (Presented in International Conference on Solid State Physics, Dec. 1-6, 2013, ICSSP13).

Name of Applicant	No. of Co-authors	Year	Title of Research Paper	Name of Journal	I.F (X/Y)	Vol. No	Page #	Total Authors
Dr. Hafiz Muhamamd Rafiq	5	2012	Medium optimization of proteasee production by brevibacterium limens DSM 20158 Using statistical approach	Brazilian Journal of Microbiology	0.9	43	1051	6
Dr. Hafiz Muhamamd Rafiq	4	2012	DEM and GIS based hypsometric analysis to investigate neotectonic influence on Hazara Kashmir Syntaxis	Pakistan Journal of Science	Y	64	3	NIL
Dr. Hafiz Muhamamd Rafiq	4	2012	Monitoring spatiotemporal and micor-level climatic variations in Lahore and subrubs using satellite imagery and multi-source data	Faculty of Engineering & Technology	Y	19	1	NIL
Dr. Hafiz Muhamamd Rafiq	5	2012	Surface deformation through fractal analysis of DEM based spatial drainage patterns in Gilgit Baltistan region (northern Paksitan)	Pakistan Journal of Science	Y	64	140	NIL



Name of Applicant	No. of Co-authors	Year	Title of Research Paper	Name of Journal	I.F (X/Y)	Vol. No	Page #	Total Authors
Dr. Hafiz Muhamamd Rafiq	5	2012	DEM based geomorphic analysis along kalabagh fault and potwar plateau to constrain surface deformation: Inferences from remote sensing and GIS	Pakistan Journal of Science	Y	64	2	NIL
Dr. Hafiz Muhamamd Rafiq	5	2012	Diamagnetic drift instabilities in collisional non-uniform quantum dusty magnetoplasmas	J. Plasma Physics	0.94	1	589	6
Dr. Hafiz Muhamamd Rafiq	6	2012	Structural studies of N-Alkyl Derivatives of Methyl Derivatives of Methyl 4-Hydroxy-2H-1, 2-Benzothiazine-3-Carboxylate-1, 1 Dioxide	Walilak Journal of Science and Technology (WJST), North America	0.086	10	375	NIL
Dr. Hafiz Muhamamd Rafiq	3	2012	Structural and magnetic impact of CR+ - implantation into GaN thin film	Solid State Sciences	1.904	14	735	4
Dr. Hafiz Muhamamd Rafiq	5	2012	Depth-dependent tetragonal distortion study of AlGaIn Epilayer Thin Film Using RBS and Channeling technique	Modern Physics Letter B	0.47	26	1250 086	6
Dr. Hafiz Muhamamd Rafiq	5	2012	Use of High intensity electron beam to form nanohole, induce bending and fabricate nanocontact on a ZnO nanowire	Micro & Nano Letters	0.94	7	122	6
Dr. Hafiz Muhamamd Rafiq	4	2012	Characterization of n-GaN dilute magnetic semiconductors by cobalt ions implantation at high-fluence,	Journal of Magnetism and magnetic Material	1.78	324	797	5
Dr. Hafiz Muhamamd Rafiq	5	2012	N-(2-Bromophenyl)-4-methyl-N-(4-methylphenylsulfonyl) benzenesulfonamide not included in previous award	Acta Cryst. E	0.35	67	2356	5

• **Conferences, Seminars & Workshops etc.**

School of Physical Sciences has organized different conferences and workshops in collaboration with ORIC and details are given below:

- Training for young Researchers/Students on PCR Technology on 2nd February, 2013.
- Training for young Researchers/Students on HPLC on March 30th, 2013.
- Training for young Researchers/Students on GC on June 08th, 2013.
- Training for young Researchers/Students on Research Methodology on December 20th, 2013.

These workshops were attended by scientists and students from different Universities which included:



- University of the Punjab (different departments).
- University of Engineering and Technology, Lahore.
- Quaid-i-Azam University, Islamabad.
- Allama Iqbal Open University, Islamabad.
- Pakistan Institute of Engineering & Applied Sciences (PIEAS), Islamabad, Pakistan.
- University of the Mansehra, KPK.
- University of Agriculture, Faisalabad.
- Kinnaird College, Lahore.
- University of Education, Lahore.
- FC College University, Lahore.
- GCU, Lahore.
- Lahore College Women University, Lahore.

RESEARCH COLLABORATION

School of Physical Sciences has developed research collaborations with scientific community of different other organization which included:

- University of the Punjab (different Departments).
- University of Health Sciences, Lahore.
- University of the Mansehra, KPK.
- South Asian Primary Care Research Network (www.sapcrn.org).

Punjab University Gujranwala Campus

● **Research & Development – An Overview**

- The Director General and other faculty members of the PUGC got their 12 research papers published in international journals. The Director General participated and chaired three international conferences abroad and he also participated in three national conferences.

● **Publications**

- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M.M, & Iqbal, H. K. (2012). Leadership and Personality Traits as Determinants of Organizational Citizenship Behaviour (OCB) in Banking Sector of Pakistan. World Applied Sciences Journal 20(8): 1152-1158. AUSTRALIA Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Afzal, M., Begum, I., Sarwar K. & Fatima H. (2012). Relationship among Education, Poverty and Economic Growth in Pakistan: An Econometric Analysis. Journal of Elementary Education 22(1): 23-45. PAKISTAN (Recognized Y Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Munir, Y., 3.



- Prof. Dr. Muhammad Ehsan Malik, Y., Javaid, B., Arshad, A., Nawaz, R. & Nazir, S. (2013). Empirical Investigation of Ethical Leadership, Job Turnover, Job Satisfaction, Organizational Commitment, and Organizational Citizenship Behavior, *Far East Journal of Psychology and Business*, 10(2), 12-20 HONG KONG. (Recognized “Y” Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Khan M.A, Akash, R. S. I., & Ibrar, M. (2013). Testing the Day of the Week Effect in Emerging and Transitional Equity Market (Empirical Evidence from Stock Returns of Karachi Stock Exchange, Pakistan), *European Journal of Social Sciences*, 36(4), 487-492. SEYCHELLES (Recognized “Y” Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M. M., Ashar, M., Arooje & Anum. (2013). The Impact of Training Perceptions on Employee Attitudes. *American Journal of Scientific Research* (87): 164-173. SEYCHELLES Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M. M., Iqbal, H. K., Riaz, U., Hassan, N., Mustafa, M. & Shahbaz S. (2013). Importance of Brand Awareness and Brand Loyalty in assessing Purchase Intentions of Consumer. *International Journal of Business and Social Science* 4(5): 167-171. UNITED STATE OF AMERICA (Recognized “Y” Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M. M & Iqbal, H. K (2013). Impact of Job Overload and Work Schedule Flexibility on Job Satisfaction: An Insight in Education and Banking Sector of Pakistan. *International Review of Social Sciences and Humanities* 5(1): 38-47. INDIA (Recognized “Y” Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Ghafoor, M M, & Iqbal, H. K., Ali, Q., Hunbal H., Noman M., Ahmad, B. (2013). Impact of Brand Image and Advertisement on Consumer Buying Behavior. *World Applied Sciences Journal* 23(1): 117-122. AUSTRALIA Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Idrees, A. (2013). Developing Pharmaceutical Sales Force Collective Psychological Capital through Group Authentic Leadership. *American Journal of Scientific Research* (91): 69-78. SEYCHELLES Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Munawar, M. (2013). Role of Integrated Marketing Communication in Customer Satisfaction and Brand Trust. *American Journal of Scientific Research* (91): 79-87. SEYCHELLES Thomson & ISI Indexed, (Recognized X Category by HEC).
- Prof. Dr. Muhammad Ehsan Malik, Naeem, B, & Munawar, M. (2013). Impact of Integrated Marketing Communication on Brand Loyalty: Brand Image As Mediator. *European Journal of Scientific Research* (108): 303-310. SEYCHELLES (Recognized Y Category by HEC).
- Akram Imran, Rehman, “Impact of CSR on Brand Loyalty: Mediating Role of Functional Image”, *European Journal of Scientific Research*, (2013).



- **Conferences, Seminars & Workshops etc.**

- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in Global Conference on “Innovations in Management & Doctoral Symposium” organized by Centre for Innovations in Business & Management Practices (CIBMP) held at University of East London, London, UK from November 22 – 24, 2012.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Session in the 2013 International Academic Conference organized by International Institute of Social and Economics Sciences (IISES) in Hotel Royal Continental, Naples, Italy on September 16-19, 2013.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Scientific Session in International Conference on “Applied Psychology” jointly organized by Department of Applied Psychology, University of the Punjab, Lahore Pakistan and Psychology Sub-committee of HEC’s CDSHP held at University of the Punjab, Lahore Pakistan from December 15 - 19, 2012.
- Prof. Dr. Muhammad Ehsan Malik participated in “Global Forum on Islamic Finance: New Realities, New Challenges” organized by COMSATS Institute of Information Technology (CIIT) in associations with Lancaster University, United Kingdom held at Pearl Continental Hotel Lahore, Pakistan from March 11 to 13, 2013.
- Prof. Dr. Muhammad Ehsan Malik participated and chaired a Technical Session in the Conference on “Bio-Physicochemical Basis Technopreneurship” jointly organized by Institute of Business Administration (IBA) and Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore held at Al-Razi Hall, Undergraduate Block, University of the Punjab from April 2 to 3, 2013.
- Prof. Dr. Muhammad Ehsan Malik delivered a lecture on the topic “Building a Brand” & Management” in the Conference on “Bio-Physicochemical Basis Technopreneurship” jointly organized by Institute of Business Administration (IBA) and Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore at held Al-Razi Hall, Undergraduate Block, University of the Punjab on April 2, 2013.

Punjab University Jhelum Campus

- **Publications**

- Research Paper on “Effects of Motivational Factors on Teacher Job Satisfaction: A Study of public sector degree Colleges of Punjab” by Muhammad Nadim Lecturer Punjab University Jhelum Campus.
- Research Paper on “Market efficiency in its weak forms: Evidence from Karachi Stock Exchange of Pakistan” by Muhammad Nadim Lecturer Punjab University Jhelum Campus