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
  - 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
Prof. Dr. Umbreen Javaid

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

- 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
  o 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
  o 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.
  o 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.
  o 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.
o Dr. Ambedkar 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.

o 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
  o 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
  o 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
  o Two articles are published by Ms. Maliha Azami Aga for Designer’s Style Magazine titled:
    ▪ The Aesthete. Published during the July/ August Edition.
  Books published by Prof. Dr. Shaukat Mahmood
  o Target Killings, Collection of 200 cartoons on political issues of national and international issues.
  o Art Movements in the West (in Urdu). A text book for art students.
Besides, the following articles are published by Prof. Dr. Shaukat Mahmood during the period in question:

- **How the Tea was born**, Heritage, Islamabad, Issue 16, December 2012.
- **Tomb at Halicarnassus, One of the Seven Wonders of the ancient World**, Heritage, issue 15, Islamabad.
- **The Lion King (Shir Shah Suri)**, Sunday Plus of Daily The Nation, September 08, 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.**
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

  Research Papers

- 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. 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 Postgraduate 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

<table>
<thead>
<tr>
<th>Authors Name</th>
<th>Book/Article Name</th>
<th>Journal with date</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Muhammad Iqbal Chawla</td>
<td>Articles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Prelude to the Accession of The Kalat State to Pakistan in 1948: An Appraisal</td>
<td>Research Society of Pakistan Vol. 49 No. 2 July-December 2012</td>
<td>Six months</td>
</tr>
<tr>
<td>Authors Name</td>
<td>Book/Article Name</td>
<td>Journal with date</td>
<td>Duration</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Mahboob Hussain</td>
<td>1. Images of Oriental Women in the Travel Writing of Seventeenth Century India</td>
<td>Pakistan Vision June 2013</td>
<td>Six Months</td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>Authors Name</th>
<th>Book/Article Name</th>
<th>Journal with date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Shagufta Begum Aneeqa Batool Awan</td>
<td>Plato’s Concept of Justice and Current Political Scenario in Pakistan</td>
<td>International Journal of Humanities and Social Science, Vol. 3 No.11</td>
</tr>
<tr>
<td>Dr. Shagufta Begum</td>
<td>Iqbal’s Epistemology</td>
<td>International Journal of Humanities and Social Science, Vol. 3 No.12</td>
</tr>
<tr>
<td>Dr. Ali Raza Tahir Assistant Professor</td>
<td>Islam and Philosophy (meaning and Relationship)</td>
<td>IJCRB, Vol.4, No.9 Jan 2013 International/ HEC Recognized</td>
</tr>
<tr>
<td></td>
<td>Reasons of Decline of the Muslim World (An Analytical Study.)</td>
<td>IJCRB, Vol.4, No.9 International/ HEC Recognized</td>
</tr>
<tr>
<td></td>
<td>Metaphysics of Islam (synthesis)</td>
<td>IJCRB, Jan. 2013, International/ HEC Recognized</td>
</tr>
</tbody>
</table>
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) | IJR 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**
  - **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
o 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
  o Keynote Speaker: Dr. Pippa Virdee, DeMontfort University, United Kingdom
o 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
o Seminar on ‘Perspectives on Mughal India: Rulers, Historians, Ulama and Sufis’ on Tuesday, December 18, 2012. Keynote Speaker: Dr. Sajida Alvi, Professor of Islamic Studies at McGill University, Canada
o Seminar on ‘Allama Iqbal’s Vision of Democracy’ on Friday, November 09, 2012. Keynote Speaker: Mr. Qayyum Nizami
o Seminar on ‘Pakistan: Between Afghanistan and India’ on Thursday, October 18, 2012.
  o Keynote Speaker: Prof. Dr. Piotr Balcerowicz, Professor of International Relations, Chair of South Asia, Faculty of Oriental Studies, University of Warsaw, Poland.

• Research Journals
  o Two issues of the bi-annual research journal, ‘Pakistan Vision’, were published during the period under review.

Following research articles were included in the last two issues of ‘Pakistan Vision’.
  ▪ 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
  ▪ 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
- 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
- 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

DEPARTMENT OF GENDER STUDIES

- Publications
• **Conferences, Seminars & Workshops etc.**
  - Role of Youth in Effective Parliament: September 2013. FAFEN
  - One day Workshop on “Gender and Peace Conflict”, June, 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 compusions: 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
  - Prof. Dr. Iram Khalid
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)]

Rana Ejaz Ahmad

Dr. Mubeen Adnan

Dr. Gulshan Majeed

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 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 seminar 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.


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
  - 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
  o “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.
  o “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.
  o 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
  o “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
  o Framing of US policy regarding terrorism in responsibility sensational media matrix: A case of Pakistan media 2013.
  Dr. Bushra H. Rahman
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.


Dr. Abida Eijaz


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.


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 "Mashriqi 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.

o 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.

o 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.

o 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.

o Organized a seminar on "Study Abroad Guidance" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies held on April 18, 2013.

o A Special Lecture organized on "News Feature Reporting" by Rizwan Hameed, Express TV at the Institute of Communication Studies held on April 24, 2013.

o Organized a workshop on "Effective Critical Thinking" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies held on May 31, 2013.

o Workshop organized on "Tenure Track System" at Hameed Nizami Memorial Conference Room, ICS held on June 05, 2013.

o 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.

o Organized a Seminar on "Advocacy Campaign on Self Medication" at the Hameed Nizami Conference Room, ICS held on September 04, 2013.

o Organized an advocacy campaign on "Intolerance" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies on September 19, 2013.

o Advocacy Campaign organized on "Lack of appreciation demotivates the Students" at the Institute of Communication Studies on September 20, 2013.

o Organized an advocacy campaign "Environmental Cleanliness" at Hameed Nizami Memorial Conference Room, Institute of Communication Studies on September 23, 2013.

- **Research Journals**
  
  o Biannual Journal of Media Studies

**INSTITUTE OF SOCIAL & CULTURAL STUDIES**

- **Publications**
  
  Dr. Zakria Zakar


Prof. Dr. Muhammad Hafeez


Dr. Riffat Munawar

Munawar, Riffat. (2012). Decentralization and women’s political empowerment in South Asia, Women Empowerment and social transformation.(Conference proceedings)


Dr. Khalil Ahmad


Rahla Rahat


Dr. Rubeena Zakar


Dr. Fauzia Saleem Alvi


Dr. Ahmad Usman


Dr. Raza Ullah


**Conferences, Seminars & Workshops etc.**

Dr. Sameen Masood


At the ISCS


- 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.


- 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 Siddiqa Bugvi) of ISCS received three days (April 16-18) 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 Siddiqa 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
  o A research Journal titled ‘Pakistan Sociological Review’ is being published biannually since 2012.

RESEARCH COLLABORATION
• Foreign & Indigenous Linkages
  o 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.

HAILEY COLLEGE OF BANKING & FINANCE
• Research & Development – An Overview
  o 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
  o 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 by HCC faculty members.

- Research Journals
  - 8 Research Journal by HCC faculty members & Hailey College Published Annual Journal Al-Iqtisad

 DEPARTMENT OF ECONOMICS

- Publications
  - Dr. Afzal Choudhry

- Dr Hafiz Khalil Ahmad

- 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**
  **Prof. Dr. Khalid Mahmood**


Prof. Dr. Mumtaz A. Anwar


Dr. Shafiq Ur Rehman


Amara Malik


Books Published


Book Chapters


- 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.

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 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

- 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.

- 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


- **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.
o 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” form Stiching Foundation to attend World Library and Information Congress, 79th IFLA General Conference and Assembly 17-23 August 2013, Singapore (Not availed due to visa).

o 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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Author</th>
<th>Title of Paper</th>
<th>Name of Journal/Conference</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Dr. Nasira Jabeen, Prof. Dr. Zafar Iqbal Jadoon, Prof. Dr. Abu Rashid Jafri</td>
<td>Public Administration in South Asia: India, Bangladesh, and Pakistan</td>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Aamir Saeed</td>
<td>Hospital Autonomy Reforms in Pakistan and the politics of meanings</td>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Aamir Saeed</td>
<td>Making Sense of Federalism in Pakistan</td>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Aamir Saeed</td>
<td>Understanding Policy Making and Implementation in Pakistan</td>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Prof. Dr. Nasira Jabeen</td>
<td>Role of Board in Governance and Management of Third sector in Pakistan</td>
<td>P.U. Research Project</td>
<td>2012-2013</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Aamir Saeed</td>
<td>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.</td>
<td>P.U. Research Project</td>
<td>2012-2013</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Javed Nayyar</td>
<td>TQM methodology for the quality improvement of the Institute of Administrative Sciences (IAS) University of the Punjab</td>
<td>P.U. Research Project</td>
<td>2012-2013</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Author</td>
<td>Title of Paper</td>
<td>Name of Journal/Conference</td>
<td>Date</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>----------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>11.</td>
<td>Ms. Saba Nasir</td>
<td>Policy Transfer and Regulatory development in Pakistan</td>
<td>P.U. Research Project</td>
<td>2012-2013</td>
</tr>
</tbody>
</table>

**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
Commitment, and Organizational Citizenship Behavior, Far East Journal of Psychology and Business, 10(2), 12-20 HONG KONG. (Recognized “Y” Category by HEC).


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

<table>
<thead>
<tr>
<th>Papers Published</th>
<th>Books Published</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>19</td>
</tr>
</tbody>
</table>

Faculty of Education

DEPARTMENT OF SPECIAL EDUCATION

- Publications
  
  Dr. Humara Bano
  
  

  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 “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)
  


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)

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 “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 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.


• **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.
o Attended International Conference of Applied Psychology (ICAPP) 2012, organized by Department of Applied Psychology, University of the Punjab, Lahore from 15\textsuperscript{th} – 19\textsuperscript{th} December, 2012.

o 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

o 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 28\textsuperscript{th} Nov. 2012 at Aiwan-i-Quaid, Nazria Pakistan Council (Trust) Building, F-9 Park, Islamabad.

o Attended and presented a paper on “Student’s Preference for the Teachers Characteristics and Traits in Character Building of Students with Special Needs” in 2\textsuperscript{nd} Post Graduate National Conference by IER< University of the Punjab, Lahore.

o 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.

o Attended “5\textsuperscript{th} 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.


Dr. Hina Fazil

o 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.

o 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.

o Attended a seminar on “The role of psychologists in Special Education” on 2nd October, 2012 organized by University of Management and Technology, Lahore.

o Attended and participated two days work shop on Teaching children with AUTISM: ABLLES held on 27th & 28th December 2012 at UMT

o 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.
o 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.

o 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.

o 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.

o 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.

o 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.

o 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.

o 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.

o 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.

o 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

o Attended a conference an international conference on Ethics, Spirituality and Freedom on February, 18-20, 2013 held at Government Chuna Mandi college, Lahore.

o 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.

o Attended a seminar on white cane safety day on 15 October 2012, organized by the department of special education.
o 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.

o Attended a one day seminar on role of psychologists in special education on October, 2, 2012, organized by University of Management and Technology, Lahore.

o 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.

o 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

o Attended a seminar on “The role of psychologists in Special Education” on 2nd October, 2012 organized by University of Management and Technology, Lahore.

o 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.

o 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.

o 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.

o 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.

o 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.

o 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

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

- Publications

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Author</th>
<th>Title of Paper/Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prof. Dr. Mumtaz Akhter</td>
<td>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.</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Muhammad Saeed</td>
<td>Adaptive clothing for females with arthritis impairment, Journal of University Medical &amp; Dental College (JUMDC), Vol. 3(2), 2012.</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Muhammad Saeed</td>
<td>Comparative Evaluation of Internal Efficiency of Teacher Education Institutions in Pakistan, International Researchers, Vol. No.</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Author</td>
<td>Title of Paper/Article</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Tariq Mahmood Khan</td>
<td>The Study of Aid Dependency and External debt on Pakistan’s Economy, Pakistan Economic and Social Review Vol. 20 No. 10</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Tariq Mahmood Khan &amp; Dr. Ahmad Sher Awan</td>
<td>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.</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Ahmad Sher Awan &amp; Dr. Tariq Mahmood Khan</td>
<td>Gender Disparity in Misconceptions about the Concept of Solution at Secondary Level Students in Pakistan. Journal of Elementary Education Vol. 22, No. 1</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Ahmad Sher Awan &amp; Dr. Tariq Mahmood Khan</td>
<td>Entrepreneurial Intentions among University students of Punjab a Province of Pakistan. International Journal of Humanities and Social Science. Vol. 2 No. 14 Special Issue.</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Ahmad Sher Awan &amp; Dr. Tariq Mahmood Khan</td>
<td>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.</td>
</tr>
<tr>
<td>16</td>
<td>Mr. Tariq Hussain</td>
<td>“Impact of Formative Assessment on Academic Achievement of Secondary School Students” International Journal of Business and Social Science Vol. 3 No. 17.</td>
</tr>
<tr>
<td>17</td>
<td>Mr. Tariq Hussain</td>
<td>Impact of Co-curricular Activities on Personality Development of Secondary School Students” International Journal of Humanities and Social Science Vol. 2 No. (18).</td>
</tr>
<tr>
<td>18</td>
<td>Mr. Tariq Hussain</td>
<td>“Decentralization and Educational Institutional Development- A Case study from Pakistan” International Journal of Humanities and Social Science Vol. 2 (22) Special Issue.</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Author</td>
<td>Title of Paper/Article</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>20</td>
<td>Dr. Muhammad Shahid Farooq</td>
<td>An inclusive Schooling Model for the Prevention of Dropout in Primary Schools in Pakistan. Bulletin of Education and Research ,35(I),</td>
</tr>
<tr>
<td>23</td>
<td>Dr. Muhammad Shahid Farooq</td>
<td>Problems faced by special students in ordinary schools: A case of Pakistan. Journal of Quality and Technology Management. VIII(I).</td>
</tr>
<tr>
<td>25</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>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)</td>
</tr>
<tr>
<td>26</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>A Comparison of the Perceptions of Secondary School Teachers’ Satisfaction about their Jobs. ( A jointly authored paper) Journal of Humanities and Social Sciences (USA)</td>
</tr>
<tr>
<td>26</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>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)</td>
</tr>
<tr>
<td>27</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>Quranic Instructions for Teaching to Hazoor (SAW)* Monthly Aamozgar, Bhawani Peth Jalgaon, (India)</td>
</tr>
<tr>
<td>28</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>Qiam e Pakistan main Anjuman e Himayate Islam as a think tank (A Jointly authored paper)** Al Qalam</td>
</tr>
<tr>
<td>30</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>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</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Author</td>
<td>Title of Paper/Article</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>32.</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>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</td>
</tr>
<tr>
<td>33.</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>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</td>
</tr>
<tr>
<td>34.</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>Issues of Universities’ Governance in Pakistan (Principal author of a jointly authored paper.) Journal of Elementary Education, University of the Punjab, Lahore</td>
</tr>
<tr>
<td>35.</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>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</td>
</tr>
<tr>
<td>36.</td>
<td>Dr. Mahr Muhammad Saeed Akhtar</td>
<td>Cutting edge of Islam on other Education Systems (A Jointly authored paper) Al Adwa Research Journal, University of the Punjab</td>
</tr>
</tbody>
</table>

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

  **Attended**
  - Prof. Dr. Mumtaz Akhter 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 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, Riydah, 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 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 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.
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 16-119, 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. Arooan 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.
o 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.


o 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.

o 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.

o 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.

o 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.

o 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.

o 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


o 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, 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 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


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

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.

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 indigenous & 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**


**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**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Project Name</th>
<th>Duration</th>
<th>Sponsoring agency</th>
<th>Funding (Mill Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Establishment of research group for Polymers</td>
<td>01 Year</td>
<td>HEC</td>
<td>1.000</td>
</tr>
<tr>
<td>2.</td>
<td>Establishment of Research Laboratories for Polymers Synthesis, Characterization, Rheology and Processing” by HEC.</td>
<td>02 Year</td>
<td>HEC</td>
<td>38.784</td>
</tr>
<tr>
<td>3.</td>
<td>Establishment of Industrial Research labs for Polymer and Material Synthesis.</td>
<td>03 Year</td>
<td>HEC</td>
<td>57.850</td>
</tr>
</tbody>
</table>

- **(ii) New Launched**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Project Name</th>
<th>Duration</th>
<th>Sponsoring agency</th>
<th>Funding (Mill Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Upgrading and Strengthening of the Department of Polymer Engineering and Technology, University of the Punjab, Lahore, Pakistan.</td>
<td>02 Years</td>
<td>HEC</td>
<td>90.531 Mill Rs</td>
</tr>
<tr>
<td>2.</td>
<td>Upgrading and Strengthening of the Department of Polymer Engineering and Technology, University of the Punjab, Lahore, Pakistan</td>
<td>02 Years</td>
<td>Japan’s “Technical Cooperation”, “Development Study” And “Grant Aid**” Japan International Cooperating Agency (JICA)</td>
<td>9.289 Mill US $</td>
</tr>
<tr>
<td>3.</td>
<td>Synthesis &amp; Characterization of Aluminum Oxide/Cellulose Acetate/PEG Hybrid Membrane for the Separation of CO$_2$ from Natural Gas Streams</td>
<td>01 Year</td>
<td>HEC</td>
<td>2.5</td>
</tr>
</tbody>
</table>

**Dr. Misbah Sultan, Assistant Professor**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Project Name</th>
<th>Duration</th>
<th>Sponsoring agency</th>
<th>Funding (Mill Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.</td>
<td>Synthesis and characterization of pH sensitive hydrogels/nanofibrous material from biopolymers/carboxymethyl chitosan/chitosan for different controlled drug delivery systems and other biomedical applications</td>
<td>9 months</td>
<td>HEC</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Dr. Atif Islam, Assistant Professor**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Project Name</th>
<th>Duration</th>
<th>Sponsoring agency</th>
<th>Funding (Mill Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Synthesis and characterization of conducting polymer-hydrogels from biopolymer (chitosan)/poly(vinyl alcohol) blends for medical electrode applications using impedance spectroscopy</td>
<td></td>
<td>HEC</td>
<td>2.00</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Project Name</td>
<td>Duration</td>
<td>Sponsoring agency</td>
<td>Funding (Mill Rs)</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------</td>
<td>----------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>6</td>
<td>Engr. Shahzad Maqsood Khan, Lecturer: Polymer Composites to be Used for Bio Material and Engineering Applications</td>
<td>One Year</td>
<td>University of the Punjab</td>
<td>0.125</td>
</tr>
<tr>
<td>7</td>
<td>Ms. Aneela Sabir, Lecturer: Textile Wastewater treatment by using Polymeric Membranes</td>
<td>One Year</td>
<td>University of the Punjab</td>
<td>0.125</td>
</tr>
<tr>
<td>8</td>
<td>Engr. Muhammad Shafiq, Lecturer: Removal of Salts from water by using Polymeric Membranes</td>
<td>One Year</td>
<td>University of the Punjab</td>
<td>0.125</td>
</tr>
</tbody>
</table>

- **Publications**


- 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)


- 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


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
  o 0.375 Mill Rs are granted by University of the Punjab, Lahore.
  o 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.
  o 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.
  o 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
  o 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
  o 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
  o 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:

<table>
<thead>
<tr>
<th>Project Title</th>
<th>Funded by</th>
<th>Approved Amount</th>
<th>Approved Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocracking of waste Raslics</td>
<td>Higher Education Commission</td>
<td>Rs. 11,266,090/-</td>
<td>19-12-2012</td>
</tr>
<tr>
<td>Catalytic Hydrodechlorination of Chlorophenols</td>
<td>Higher Education Commission</td>
<td>Rs. 992,585/-</td>
<td>24-05-2011</td>
</tr>
<tr>
<td>Fast Pyrolysis of Agricultural Residues for the production of Bio Oil/Liquid Fuel</td>
<td>Punjab University</td>
<td>Rs. 1.360 million</td>
<td>07-02-2011</td>
</tr>
<tr>
<td>Biogas Techno-economic feasibility for the</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>Project Title</td>
<td>Funded by</td>
<td>Approved Amount</td>
<td>Approved Date</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
<td>-----------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>production of 5 MMCFD Biogas Plant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comparative Study of Black Powder test with the analysis report of Dr. Johon</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>Smart from 36” Qadir Pur Bhong Pipeline Segment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provision of Technical Specifications, Supplier Details and Mechanism of</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>Iso Kinetic Kit to SNGPL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optimization of the amount of Inhibitor to be injected for protection of</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>Gas Pipeline transmitting gas with high sulphur contents to Engro Power.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elaboration of the route path / process / mechanism of Solid Particles</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>especially clay and Quartz detection in the gas pipe line.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calibration of the Gas Meters</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>Testing of improved industrial gas burner in the newly constructed burner</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>Estimation modeling for calculation of volumetric impact of above ground/</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>underground leakages taking into consideration our field condition.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy efficiency in small to medium size industry through improvement in</td>
<td>SNGPL</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td>design of industrial gas burner.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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:


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. 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, M.S. Tahir , “Measurement and Simulation of Axial Velocity in a Filter Bag”, Chemical Engeering & Technology (IF 1.394) 35 (00), 1-10


regeneration. Journal of industrial & engineering chemistry. Accepted for publication Impact Factor = 2.145


• 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
  - Mr. Hakeem-ur-Rehman, Application of Six Sigma at Cell Site Construction: A Case Study, Asian Journal on Quality (Emerald Article).
Research Journals
  o 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
  o 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
  o 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
  o 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 has 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**

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Hafiz Mahmood Akhtar</td>
<td>A comparison of the school system in Islam and the contemporary world</td>
</tr>
<tr>
<td>Prof. Dr. Jamila Shaukat</td>
<td>حافظ شیائی اوروی کی میزان الاعتدال فی نتد الرجال ایک جائزہ</td>
</tr>
<tr>
<td>Dr. Tahira Basharat</td>
<td>اقبال کی عالمی نشان کی قیامکا لانحکم عمل</td>
</tr>
<tr>
<td>Dr. Muhammad Saad Siddiqui</td>
<td>علیت- بنیاد واساس قیس اسلام</td>
</tr>
<tr>
<td>Dr. Ghulam Ali Khan</td>
<td>اسیران افغانستان و عراق اور جنوبی کنونشن</td>
</tr>
<tr>
<td>Dr. Ihsan ur Rehman Ghauri</td>
<td>مروریت سیرت میں امام زیدی کا منچی و اسلوب</td>
</tr>
<tr>
<td>Dr. Shahida Parveen</td>
<td>The Role of women in the development of scholarly tradition in the early period of Islam</td>
</tr>
<tr>
<td>Mr. Asim Naeem</td>
<td>اسرار الترینیت از مولا احمد امکر اعوان- صوفیانہ تفسیری ریحان کی</td>
</tr>
<tr>
<td>Mr. Usman Ahmad</td>
<td>واقعہ شعبہ ابی طالب کی تاریخی حقیقت</td>
</tr>
</tbody>
</table>
• Conferences, Seminars & Workshops etc.
  o The Department conducted the following national conferences and international seminar during the period in question:
    ▪ Saudi Arab main Muqeeem Pakistani Talba kay liyay Workshop”
    ▪ Moulana Sadaruddin Islahi Seminar
    ▪ Moulana Abdul Malik, Seerat Seminar
    ▪ Syllabus workshop

• Research Journals
  o Two issues of “Al-Qalam” were published during the period in question.

DEPARTMENT OF URDU ENCYCLOPEDIA OF ISLAM
• Publications
  o Dr. Muhammad Arshad
    ▪ “Allama Muhammad Iqbal and Musa Jarullah”, Mabahith (Lahore), no. 2 (July-December 2012), pp. 239-270.
  o Dr. Mahmood-ul-Hassan Arif
    ▪ “Fatawa Writing System in the Sub-continent of Pak-o-Hind”, The Fatwa Conference, 3-4 December 2012 at International Islamia University Islamabad.
  o Dr. Hafsa Nasreen

SHEIKH ZAYED ISLAMIC CENTRE
• Publications
  o Dr. Muhammad Ijaz
  - Dr. Muhammad Abdullah
  - 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).
- Dr. Hafiz Abdullah
- Dr. Abul Wafa Mahmood
- Dr. Ishtiaq Ahmad Gondal
- Dr. Hafiz Muhammad Abdul Qayyum

- **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**

- **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 Namoos e Risalat (SAW)
    - **Date:** 01-08-2013  
      **Speaker:** Maulana Yousaf Islahi  
      **Topic:** Hindustan kay Muslman Mazi Hal aur Mustaqbil
    - **Date:** 27-06-2013  
      **Speaker:** Maulana Noor ul Hasan Kandhalvi  
      **Topic:** Baraysagheer mai n 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**

<table>
<thead>
<tr>
<th>Name of Faculty</th>
<th>No. of Undergraduate Students</th>
<th>No. of Postgraduate Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Rukhsana Kausar</td>
<td>0</td>
<td>2 in process (co-supervisor)</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>1</td>
<td>3 Completed, 6 in process</td>
</tr>
<tr>
<td>Name of Faculty</td>
<td>No. of Undergraduate Students</td>
<td>No. of Postgraduate Students</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Dr. Saima Dawood</td>
<td>1</td>
<td>3 in process</td>
</tr>
<tr>
<td>Dr. Aisha Sitwat</td>
<td>1</td>
<td>3 in process</td>
</tr>
<tr>
<td>Ms. Aasma Yousaf</td>
<td>6</td>
<td>1 in process</td>
</tr>
<tr>
<td>Ms. Humaira Naz</td>
<td>6</td>
<td>1 completed</td>
</tr>
<tr>
<td>Ms. Tehreem Arshad</td>
<td>6</td>
<td>1 in process</td>
</tr>
</tbody>
</table>

**Projects (i) Completed**

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

(ii) Newly Launched

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

| Sr. No. | Papers Published                                                                                                                                                                                                                                                                                                                                 | Name of Author                                                                 |}
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
### Research Articles / papers presented in National/International Conference/Seminars:

<table>
<thead>
<tr>
<th>Name of Author</th>
<th>Title of Paper</th>
<th>Conference / Seminar</th>
<th>Venue</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Nashi Khan</td>
<td>Perceived Causes of Vaginal Discharge in Women in Pakistan.</td>
<td>European Health Psychological Society (EHPS, 27)</td>
<td>Bordeaux, France</td>
<td>22 August 2013</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Risk Factors for Criminal Behavior among Pakistani Women Offenders</td>
<td>European Health Psychological Society (EHPS, 27)</td>
<td>Bordeaux, France</td>
<td>22 August 2013</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Common Mental Disorders (CMDs) among Women Presenting with Gynecological Complaints</td>
<td>European Health Psychological Society (EHPS, 27)</td>
<td>Bordeaux, France</td>
<td>22 August 2013</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Perception of Women Reporting Vaginal Discharge at Gynecology Clinics in Lahore</td>
<td>International Conference of Applied Psychology (ICAPP)</td>
<td>Institute of Applied Psychology, Punjab University, Lahore</td>
<td>15&lt;sup&gt;th&lt;/sup&gt;-19&lt;sup&gt;th&lt;/sup&gt; Dec 2012</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Demographic Characteristics of Men with Erectile Dysfunction</td>
<td>International Conference of Applied Psychology (ICAPP)</td>
<td>Institute of Applied Psychology, Punjab University, Lahore</td>
<td>15&lt;sup&gt;th&lt;/sup&gt;-19&lt;sup&gt;th&lt;/sup&gt; Dec 2012</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Psychological Distress among Convicted and Under Trial Women Prisoners</td>
<td>International Conference of Applied Psychology (ICAPP)</td>
<td>Institute of Applied Psychology, Punjab University, Lahore</td>
<td>15&lt;sup&gt;th&lt;/sup&gt;-19&lt;sup&gt;th&lt;/sup&gt; Dec 2012</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Psychological Distress in Women Presenting with Vaginal Discharge in Pakistan</td>
<td>12&lt;sup&gt;th&lt;/sup&gt; International Congress of Behavioral Medicine</td>
<td>Budapest, Hungary</td>
<td>29&lt;sup&gt;th&lt;/sup&gt; August – 1&lt;sup&gt;st&lt;/sup&gt; Sept. 2012</td>
</tr>
<tr>
<td>Dr. Nashi Khan</td>
<td>Depression, Anxiety and Addictive Behavior among Women Prisoners in Pakistan</td>
<td>European Health Psychological Society (EHPS, 12)</td>
<td>Prague, Czech Republic</td>
<td>22&lt;sup&gt;nd&lt;/sup&gt; – 26&lt;sup&gt;th&lt;/sup&gt; August 2012</td>
</tr>
<tr>
<td>Name of Author</td>
<td>Title of Paper</td>
<td>Conference / Seminar</td>
<td>Venue</td>
<td>Date</td>
</tr>
<tr>
<td>------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Shiba Bashir &amp; Aisha Sitwat</td>
<td>Perfectionism and Locus of Control with Positive and Negative Affect in University Students</td>
<td>Workshop Stress Management: Learn Effective Ways for Dealing with Stress</td>
<td>Grace College, Lahore</td>
<td>26th April, 2013</td>
</tr>
<tr>
<td>Ayesha Aziz &amp; Saima Dawood</td>
<td>Poly Victimization as a Mediator for Perceived Parental Acceptance Rejection and Quality of Life</td>
<td>International Conference of Applied Psychology (ICAPP)</td>
<td>Institute of Applied Psychology, University of the Punjab, Lahore</td>
<td>15th – 19th December, 2012</td>
</tr>
<tr>
<td>Faiza Akram &amp; Saima Dawood</td>
<td>Value Priorities in relation to Parental Relationship and Vulnerability toward Depression and Anxiety</td>
<td>International Conference of Applied Psychology (ICAPP)</td>
<td>Institute of Applied Psychology, University of the Punjab, Lahore</td>
<td>15th – 19th December, 2012</td>
</tr>
<tr>
<td>Shafaq Saeed &amp; Saima Dawood</td>
<td>Self Esteem and Frustration Tolerance among Physically Disabled Individuals and their Vulnerability towards Anxiety and Depression</td>
<td>International Conference of Applied Psychology (ICAPP)</td>
<td>Institute of Applied Psychology, University of the Punjab, Lahore</td>
<td>15th – 19th December, 2012</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsors</th>
<th>Presentation Oral/Poster</th>
<th>Topic</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Urusa Fahim</td>
<td>CCP</td>
<td>Oral</td>
<td>Workshop on Designing Qualitative Research</td>
<td>13th December, 2012</td>
</tr>
<tr>
<td>Ms. Saima Salman</td>
<td>CCP</td>
<td>Oral</td>
<td>Open House Talk Discussion on REBT – Basic and Beyond</td>
<td>20th December, 2012</td>
</tr>
<tr>
<td>Dr. Bebdulal Dutta Roy</td>
<td>CCP</td>
<td>Oral</td>
<td>Workshop on Estimation of Cronbach’s Alpha Coefficient in Psychological Research</td>
<td>20th December, 2012</td>
</tr>
<tr>
<td>Dr. Oskan Mehmedagi</td>
<td>CCP</td>
<td>Oral</td>
<td>Workshop on Neuro Linguistic Programming and Hypnosis</td>
<td>13th June, 2013</td>
</tr>
<tr>
<td>Dr. Jamil A. Malik</td>
<td>CCP</td>
<td>Oral</td>
<td>Two Days Workshop on Structural Equation Modeling with AMOS</td>
<td>21st – 22nd June, 2013</td>
</tr>
<tr>
<td>Name</td>
<td>Sponsors</td>
<td>Presentation Oral/Poster</td>
<td>Topic</td>
<td>Date</td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------</td>
<td>--------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Dr. Andrew Hamid</td>
<td>CCP</td>
<td>Oral</td>
<td>Two Days Workshop on Motivational Interviewing</td>
<td>18&lt;sup&gt;th&lt;/sup&gt; – 19&lt;sup&gt;th&lt;/sup&gt; March, 2013</td>
</tr>
<tr>
<td>Dr. Munawar Malik</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Dealing with Speech Problems in Children</td>
<td>4&lt;sup&gt;th&lt;/sup&gt; September, 2012</td>
</tr>
<tr>
<td>Dr. Urusa Fahim</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Self Awareness</td>
<td>28&lt;sup&gt;th&lt;/sup&gt; September, 2012</td>
</tr>
<tr>
<td>Ms. Mirrat Gul Butt</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Dialectical Behavior Therapy</td>
<td>10&lt;sup&gt;th&lt;/sup&gt; October, 2012</td>
</tr>
<tr>
<td>Dr. Fouzia Naz</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Child Abuse</td>
<td>23&lt;sup&gt;rd&lt;/sup&gt; October, 2012</td>
</tr>
<tr>
<td>Ms. Kiran Ishfaq</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Cognitive Behaviour Therapy with Obsessive Compulsive Disorder (OCD)</td>
<td>31&lt;sup&gt;st&lt;/sup&gt; October, 2012</td>
</tr>
<tr>
<td>Dr. Shahida Tanveer</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Headaches Management</td>
<td>6&lt;sup&gt;th&lt;/sup&gt; November, 2012</td>
</tr>
<tr>
<td>Dr. Altaf Qadir Khan</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Mental State Examination</td>
<td>14&lt;sup&gt;th&lt;/sup&gt; November, 2012</td>
</tr>
<tr>
<td>Dr. Irum Bokharey</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Conversion Disorder</td>
<td>28&lt;sup&gt;th&lt;/sup&gt; November, 2012</td>
</tr>
<tr>
<td>Dr. Naumana Amjad</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Anger Problem in Children</td>
<td>22&lt;sup&gt;nd&lt;/sup&gt; May, 2013</td>
</tr>
<tr>
<td>Dr. Altaf Qadir Khan</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Epilepsy</td>
<td>5&lt;sup&gt;th&lt;/sup&gt; June, 2013</td>
</tr>
<tr>
<td>Ms. Mirrat Gul Butt</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on CBT in Pakistan</td>
<td>19&lt;sup&gt;th&lt;/sup&gt; June, 2013</td>
</tr>
<tr>
<td>Ms. Saira Khan</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Personal &amp; Professional Development</td>
<td>3&lt;sup&gt;rd&lt;/sup&gt; July, 2013</td>
</tr>
<tr>
<td>Dr. Munawar Malik</td>
<td>CCP</td>
<td>Oral</td>
<td>Extension Lecture on Dealing with Speech Problems in Children</td>
<td>11&lt;sup&gt;th&lt;/sup&gt; September, 2013</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Conference/Seminar/Workshop</th>
<th>Name of Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Kausar, R. &amp; Tariq M. (2013). Assessment of Well-being and Ill-being in Pakistan. 27&lt;sup&gt;th&lt;/sup&gt; Conference of the European Health Psychology Society (EHPS) 2013 16&lt;sup&gt;th&lt;/sup&gt; – 20&lt;sup&gt;th&lt;/sup&gt; July, 2013 at Bordeaux, France</td>
<td>Prof. Dr. Rukhsana Kausar &amp; Omama Tariq</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Dengue Fever. International Conference of Applied Psychology, University of the Punjab, Lahore, Pakistan, 15-19 December, 2012.</td>
<td>Prof. Dr. Rukhsana Kausar</td>
</tr>
<tr>
<td>17</td>
<td>Anwar, S., &amp; 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.</td>
<td>Prof. Dr. Rukhsana Kausar</td>
</tr>
<tr>
<td>18</td>
<td>Workshop on “NLP and Hypnosis”. Centre for Clinical Psychology, University of the Punjab, Lahore Pakistan. 13th June 2013</td>
<td>Dr. Nashi Khan</td>
</tr>
<tr>
<td>19</td>
<td>Workshop on “Art &amp; Science of Rational Anger Management”. Centre for Clinical Psychology, University of the Punjab, Lahore. Pakistan. 16th Dec. 2012</td>
<td>Dr. Nashi Khan</td>
</tr>
<tr>
<td>20</td>
<td>Workshop on “Designing Qualitative Research”. Centre for Clinical Psychology, University of the Punjab, Lahore. Pakistan. 13th Dec. 2012</td>
<td>Dr. Nashi Khan</td>
</tr>
<tr>
<td>21</td>
<td>Workshop on “Designing Qualitative Research”. Centre for Clinical Psychology, University of the Punjab, Lahore. Pakistan. 13th Dec. 2012</td>
<td>Dr. Aisha Sitwat</td>
</tr>
<tr>
<td>22</td>
<td>International Conference of Applied Psychology, held from 15th – 19th December, 2012 at Institute of Applied Psychology, University of the Punjab, Lahore</td>
<td>Dr. Saima Dawood</td>
</tr>
<tr>
<td>23</td>
<td>Two Days Workshop on Structural Equation Modeling with AMOS held on 21st – 22nd June, 2013 at the Centre for Clinical Psychology,</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>24</td>
<td>Attended and part of organizing committee of International conference of Applied Psychology (ICAP) held on 17th–18th December, 2012</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>25</td>
<td>Moderator of a workshop “Behaviors and Attitudes for Promoting Women Leadership” held on 16th December, 2012</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>26</td>
<td>Attended of a workshop “Estimation of Cronbach’s Alpha Coefficient in Psychological Research” held on 19th December, 2012</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>27</td>
<td>Attended of a workshop “Enhancing Human Excellence” held on 20th December, 2012</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>28</td>
<td>Attended of a workshop “Screening for Depression and Planning Mental Health Intervention for People with Diabetes” held on 16th December, 2012</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>29</td>
<td>Attended of a workshop “Healing Through Hypnosis” held on 15th December, 2012</td>
<td>Ms. Aasma Yousaf</td>
</tr>
<tr>
<td>30</td>
<td>International Conference of Applied Psychology, held from 15th – 19th December, 2012 at Institute of Applied Psychology, University of the Punjab, Lahore</td>
<td>Ms. Humaira Naz</td>
</tr>
<tr>
<td>31</td>
<td>Two Days Workshop on Structural Equation Modeling with AMOS held on 21st – 22nd June, 2013 at the Centre for Clinical Psychology, University of the Punjab, Lahore</td>
<td>Ms. Humaira Naz</td>
</tr>
<tr>
<td>32</td>
<td>Attended of a workshop “Screening for Depression and Planning Mental Health Intervention for People with Diabetes” held on 16th December, 2012</td>
<td>Ms. Humaira Naz</td>
</tr>
<tr>
<td>33</td>
<td>Attended of a workshop “Estimation of Cronbach’s Alpha Coefficient in Psychological Research” held on 19th December, 2012</td>
<td>Ms. Humaira Naz</td>
</tr>
<tr>
<td>34</td>
<td>Attended of a workshop “Enhancing Human Excellence” held on 20th December, 2012</td>
<td>Ms. Humaira Naz</td>
</tr>
<tr>
<td>35</td>
<td>International Conference of Applied Psychology, held from 15th – 19th December, 2012 at Institute of Applied Psychology, University of the Punjab, Lahore</td>
<td>Ms. Tehreem Arshad</td>
</tr>
<tr>
<td>36</td>
<td>Two Days Workshop on Structural Equation Modeling with AMOS held on 21st – 22nd June, 2013 at the Centre for Clinical Psychology, University of the Punjab, Lahore</td>
<td>Ms. Tehreem Arshad</td>
</tr>
<tr>
<td>37</td>
<td>Attended of a workshop “Estimation of Cronbach’s Alpha Coefficient in Psychological Research” held on 19th December, 2012</td>
<td>Ms. Tehreem Arshad</td>
</tr>
<tr>
<td>38</td>
<td>Attended of a workshop “Enhancing Human Excellence” held on 20th December, 2012</td>
<td>Ms. Tehreem Arshad</td>
</tr>
<tr>
<td>39</td>
<td>Attended of a workshop “Screening for Depression and Planning Mental Health Intervention for People with Diabetes” held on 16th December, 2012</td>
<td>Ms. Tehreem Arshad</td>
</tr>
</tbody>
</table>
Sr. No. | Name of Conference/Seminar/Workshop | Name of Faculty Member
--- | --- | ---
40 | Attended of a workshop “Healing Through Hypnosis” held on 15th 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 (clcubv) Resistance
  - Optimization and Validation of 10 Mitochondrial DNA SNP’s for Pakistani Population Using Snap Shot Kit

- **Projects (ii) Newly Launched**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of the Projects</th>
<th>Sponsoring Agency</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Identification and transcriptome profiling of novel microRNAs in hepatitis C virus induced liver diseases by next generation sequencing (NGS) of small RNA cDNA libraries.</td>
<td>HEC</td>
<td>3.37 Million</td>
</tr>
<tr>
<td>2</td>
<td>Development &amp; Commercialization of indigenous Bt and herbicide tolerant Maize hybrids.</td>
<td>PARB</td>
<td>22.829 Million</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of the Projects</td>
<td>Sponsoring Agency</td>
<td>Funding</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------</td>
<td>-------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>3</td>
<td>Genetic Improvement of Sugarcane for Herbicide and Borer Resistance.</td>
<td>PARB</td>
<td>22.148 Million</td>
</tr>
<tr>
<td>4</td>
<td>Development and Commercialization of Cotton Leaf Curl Virus resistant / tolerant indigenous transgenic Bt and glyphosate Cotton hybrids.</td>
<td>PARB</td>
<td>35.766 Million</td>
</tr>
</tbody>
</table>

- Publications
Phytochemical Constituents Responsible for Antiviral Activity. Journal of Agricultural Science5 (7): 167-188


Books:


Conferences, Seminars & Workshops etc.


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, Allama Iqbal 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, Netherlands
  - 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

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

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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Principal investigator</th>
<th>Title of the Project</th>
<th>Duration</th>
<th>Amount in Rs.</th>
<th>Sponsored by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prof. Dr. Muhammad Saleem</td>
<td>Study of molecular diversity in coprophilous fungi (Sordaria fimicola Ascobolous immerses)</td>
<td>2012</td>
<td>2,50,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>2</td>
<td>Prof. Dr. Faheem Aftab</td>
<td>Mitigation of salt stress in potato by exogenous application of phytohormones or their precursors. 1. IAA and Tryptophan”</td>
<td>2012</td>
<td>200,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Principal Investigator</td>
<td>Title of the Project</td>
<td>Duration</td>
<td>Amount in Rs.</td>
<td>Sponsored by</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------</td>
<td>----------------------</td>
<td>----------</td>
<td>---------------</td>
<td>--------------</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Abdul Nasir Khalid</td>
<td>Further additions to the Mushrooms flora of Lahore identification based upon molecular methods.</td>
<td>2012</td>
<td>200,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Humera Afrasiab</td>
<td>Callogenesis and micro propagation of medicinal plant Safflower (<em>Carthamus tinctorius</em> L.).</td>
<td>2012</td>
<td>1,50,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Farkhanda Jabeen</td>
<td>Isolation and characterization of medicinally active compounds from <em>Centratherum anthelminticum</em> (purple fleebane) from Haripur Hazara, Pakistan</td>
<td>2012</td>
<td>1,50,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Ambreen Ahmad</td>
<td><em>Abelmouschus esculentus</em>: Phytostimulation by <em>Enterobacter</em> sp.</td>
<td>2012</td>
<td>1,50,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Asma Zulfiqar</td>
<td>Role of organic acids in chelation of chromium ions in polluted soils</td>
<td>2012</td>
<td>1,25,000</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Abdul Rehman Khan Niazi</td>
<td>Taxonomic affinities of Amanitas (<em>Amanitaceae, Agric ales</em>) and their ectomycorrhiza from Himalayan moist temperate forests of Pakistan.</td>
<td>2012</td>
<td>1,50,000</td>
<td>University of the Punjab</td>
</tr>
</tbody>
</table>

- Projects (ii) Newly Launched

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Researchers</th>
<th>Title</th>
<th>Financial Support (Rs.)</th>
<th>Duration</th>
<th>Sponsoring Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Dr. Muhammad Saleem</td>
<td>Molecular characterization of <em>Sordaria fimicola</em>.</td>
<td>2,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Dr. Faheem Aftab</td>
<td>Effect of different cytokinins on in vitro seed germination and morphogenesis of teek (<em>Tecton grandis</em> L.) seedlings.</td>
<td>2,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Abdul Nasir Khalid</td>
<td>Additions to the Mushrooms flora of Miandam (Swat) Pakistan.</td>
<td>200,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Humera Afrasiab</td>
<td>Microtuberization of potato (<em>Solanum tuberosum</em> L.) variety Lady Rossetta.</td>
<td>1,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Farkhanda Jabeen</td>
<td>Isolation and characterization of Chlorfenapyr degrading bacteria from agricultural soil samples.</td>
<td>1,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>6.</td>
<td>Dr. Farhat Rass Masood</td>
<td>Vegetation and Climate during the deposition of patala formation, western salt range, Pakistan, based on palynological analysis.</td>
<td>1,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Researchers</td>
<td>Title</td>
<td>Financial Support (Rs.)</td>
<td>Duration</td>
<td>Sponsoring Agency</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------</td>
<td>----------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>7.</td>
<td>Dr. Ambreen Ahmed</td>
<td>Screening of heavy metal resistant-bacteria from contaminated sites and evaluation of their bioremediation potential.</td>
<td>1,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>8.</td>
<td>Dr. Asma Zulfiqar</td>
<td>Differential Protein expression for <em>Brassica juncea</em> varieties differing in heavy metal tolerance.</td>
<td>1,50,000</td>
<td>2013</td>
<td>University of the Punjab</td>
</tr>
<tr>
<td>9.</td>
<td>Dr. Abdul Rehman Khan Niazi</td>
<td>Further additions to fungal flora of Man-made forest Changa Manga Pakistan.</td>
<td>1,50,000</td>
<td>2013</td>
<td>1,50,000</td>
</tr>
</tbody>
</table>

- **Publications**


- 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. 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-PHYSICOCHEMICAL 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. Alejandra 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.
o 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.

o 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.

o 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.

o 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.

o 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.

o 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.

o 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 Abbass.

o 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.

o 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.

o 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.

o 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.

o 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

o 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.


- 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.


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**


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)


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)


**Book / Book Chapters**

- Sabri, A.N., Sabri, S., Sultan, S. 2012. Metallurgical microscopy of Bacterial biofilm representing Cr\(^{+6}\) conversion into Cr\(^{+3}\) by Acienetobacter 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.

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.


**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 "10th Annual conference on infectious diseases" organized by Shaukat Khanum Memorial Cancer Hospital and research Centre, Lahore. 22-23 February, 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 CIIT, 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. 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-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. 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 technopreneurship" 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) Biophysicochemical basis for technopreneurship April 2-3, 13 Organized by MMG, Punjab University, Lahore.

Dr Saba Riaz attended: Workshop on Gas Chrmotatography, June 8th 2013. Organized by School of physical sciences and ORIC, Punjab University.


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 Zaidi attended 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 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 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.
  - 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 (BUITEMS), 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**
- 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 Foung, 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


- 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.


- Start-up Research Grant from HEC of worth Rs. 500,000, (Dec 2012 - July 2013) by Dr. Nousheen Zaidi.


- 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**

<table>
<thead>
<tr>
<th>Name of Researcher/Sponsoring Agency</th>
<th>Title of Research Project with duration</th>
<th>Financial Support (million Rupees)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Tanveer Akhtar University of the Punjab Higher Education Commission Pakistan (HEC) [PIN#074-0551-Bm4-033]</td>
<td>Malaria: molecular basis of drug resistance in Pakistan scenario. May 2008 Dec 2012</td>
<td>0.72</td>
</tr>
<tr>
<td>Prof. Dr. Tanveer Akhtar//University of the Punjab Higher Education Commission Pakistan (Pin # 20 1370/R&amp;D/09)</td>
<td>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,</td>
<td>4.1</td>
</tr>
<tr>
<td>Prof. Dr. Javed Iqbal Qazi University of the Punjab, Lahore</td>
<td>Cultivation of H$_2$-yielding bacteria in food wastes</td>
<td>0.2</td>
</tr>
<tr>
<td>Dr. Abida Butt Pakistan Scientific Federation</td>
<td>Effects of Agricultural practices and refugir on pest control potential of spider residing rice field of Punjab, Pakistan</td>
<td>1.7</td>
</tr>
<tr>
<td>Dr. Zafar Iqbal University of the Punjab, Lahore</td>
<td>Parasitic infection in some imported tropical ornamental fishes:</td>
<td>0.2</td>
</tr>
<tr>
<td>Dr. Abida Butt University of the Punjab, Lahore</td>
<td>Effect of alternative pray and habitat structure on cannibolism in L. terrestris (Aranae, lycosidae)</td>
<td>0.2</td>
</tr>
<tr>
<td>Dr. Nabila Roohi University of the Punjab</td>
<td>Serum protein profile of textile industry workers as resolved by SDS-PAGE.</td>
<td>0.2</td>
</tr>
<tr>
<td>Dr. Farah Rauf Shakoori University of the Punjab</td>
<td>Heavy metal (Cu and Cr) uptake by Paramecium Species</td>
<td>0.25</td>
</tr>
<tr>
<td>Dr. Najma Shaheen University of the Punjab</td>
<td>Isolation and characterization of antimicrobial substance secreting bacteria from dairy products and citrus fruits.</td>
<td></td>
</tr>
<tr>
<td>Dr. Nadeem Sheikh University of the Punjab, Lahore</td>
<td>Toxic effects of acute intra-peritoneal administration of iron and copper in Wistar Rat. 1 Year</td>
<td>0.15</td>
</tr>
<tr>
<td>Dr. Nadeem Sheikh HEC</td>
<td>Fat induced Inflammation, Iron overload and Impact of fat reducing agents in Rattus norvegicus. 3 Year</td>
<td></td>
</tr>
<tr>
<td>Dr. Nadeem Sheikh HEC</td>
<td>Mycotechnological production of laccase by Pleurotus ostreatus 3 Year</td>
<td></td>
</tr>
</tbody>
</table>
(ii) Newly Launched

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

- Publications
  
  Prof. Dr. Muhammad Akhtar
  
  
  
  
  


Prof. Dr. Tanveer Akhtar


Meeting Abstracts) 2012 120: Abstract 5115 (Impact Factor= 9.898) ISSN 1528-0020, http://abstracts.hematologylibrary.org/cgi/content/abstract/120/21/5115


Prof. Dr. Javed Iqbal Qazi


"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 Lernaea diversity and infection in Indian and Chinese carps under semi intensive culture conditions in Lahore, Punjab. Journal of Animals and Plant Sciences,


Dr. Abida Butt


Dr. Nabila Roohi


Dr. Farah Shakoori


Dr. Najma Shaheen


Dr. Nadeem Sheikh


Full Length Papers 2013


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].


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].


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]
- 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., 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]
- Akhtar T., Muddasir H. Abbasi, 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]
- 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


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

- 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.
- 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 Dangue: virology and pathogenesis for which Dr. Abdul Haque, Deputy Chief Scientist NIBGE was invited as guest speaker on 27.03.2013.

- 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 Karakaram 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.
o Reviewed the manuscript "Farinographic studies of mozzarella cheese at optimized conditions" PJZ-NIL-2013 for Pakistan Journal of Zoology on 02.05.2013.

o 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

o Organized and attended 9th National Honey Bee keeping workshop at Zoology Department, University of the Punjab Lahore, 11-15 March 2013.

o Attended 33rd Pakistan Congress of Zoology held at Pakistan Natural History Museum Islamabad 2-4 April 2013

o Attended one day seminar on "Emerging Trends & Prospects in Fisheries Management" held at Fish Diversity Hatchery Chashma Mianwali 12-06-2013

Dr. Nabila Roohi

o 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

o 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.

o 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


Dr. Nadeem Sheikh

o "23rd Conference of the Asian Pacific Association for the Study of the Liver (APASL 2013)" held from June 6-10, 2013 in Singapore

o 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

o 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.
• Research Journals
  o Prof. Dr. Javed Iqbal Qazi
    ▪ Associate Editor Punjab University Journal of zoology.
  o Dr. Farah Rauf Shakoori
    ▪ Member, organization for Women in Science for the Developing World (OWSDW) since 2007-continuing
  o 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.
  o 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
  o 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 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 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.

  o Dr. Nabila Roohi
    • Three Indigenous Ph.D. scholarships are awarded by HEC to Ph.D. students
  o Dr. Farah Rauf Shakoori
    • Collaboration with School of Biological Sciences University of the Punjab Lahore.
    • Collaboration with Government College University Lahore.
  o Dr. Najma Shaheen
    • Dr Muhammad Iqbal, Director Foot and Mouth Research Centre, Ghazi Road, Lahore
  o 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
  o 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
Annual Report 2012-13

Research & Development

- 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 trails, 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 Javald, 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 "Developing 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/-.
  o 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.
  o 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.
  o Dr. Shazia Shafique, Assistant Professor
  o 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).
  o Dr. Amna Shoaib, Assistant Professor
  o Dr. Uzma Bashir, Assistant Professor
    - Morphological and Molecular characterization of economically important fungal species. Funded by academic research, University of the Punjab, Lahore, Pakistan.
  o 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.
  o Dr. Muhammad Bilal Chattha, Assistant Professor
    - 2012: Improving the Germinibility 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
- ISBN 978-3-8484-1231-0, paperback, 56 Pages
- ISBN 978-3-8473-2955-8, paperback, 184 Pages

Dr. Ghazala Nasim, Professor

Dr. Tehmina Anjum, Assistant Professor
Dr. Amna Shoaib, Assistant Professor


Dr. Uzma Bashir, Assistant Professor


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


Dr. Ahmad Ali Shahid, Assistant Professor

- 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

Dr. Uzma Bashir, Assistant Professor

- 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.

Dr. Shazia Shafique, Assistant Professor

- Aqeel Ahmad, Shazia Shafique and Sobiya Shafique, 2013. Penicillium oxalicum directed systemic resistance in tomatoes against Alternaria alternata. In: International Conference on


- One day seminar on Word 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

- Dr. Sobiya Shafique, Assistant Professor
Conference on Global Environmental Changes, January 15-16, 2013, Government College University, Faisalabad.


- One day seminar on Word 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 attuned 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 2-3April 2013, Lahore Pakistan

  - Dr. Shahbaz Ahmad, Assistant Professor
    - Cairo International Conference for Clean Pest Mangement 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"
  - Ms. Zill-e-Huma, Lecturer
    - Biovision Alexandria NXT, 2012 (TWAS/BVA. NXT 2012) at the Center for Special Studies and Programs at the Bibliotheca Alexandri 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.

**Research Journals**

- Dr. M. Saleem Haider, Professor & Director


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


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.


- Dr. Salik Nawaz Khan, Assistant Professor


- Dr. Ahmad Ali Shahid, Assistant Professor
- 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 arabisopsis 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.


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
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, Aqel 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)

Dr. Arshad Javaid, Assistant Professor
Dr. Shakil Ahmed, Assistant Professor

- Zaheer Ahmad Nasir, Ian Colbeck, Zulfqar 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

Dr. Amna Shaoib (Amna Javaid), Assistant Professor


O Dr. Uzma Bashir, Assistant Professor

O Dr. Shazia Shafique, Assistant Professor
- Zoobia Bashir, Shazia Shafique, Aqeel Ahmad, Tehmina Anjum, Sobiya Shafique and Waheed Akram, 2013. Quantification of Cellulose Contents by Transmission Spectra f Plant Tissues. cellulose Chemistry and Technology, 47 (5-6), 509-513. (impact factor: 0.825)

Dr. Muhammad Ashfaq, Assistant Professor

- 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).
  o Dr. Rashid Mahmood, Assistant Professor
  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)
- 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)

Dr. Bilal Chattha, Assistant Professor

Dr. Shinawar Waseem Ali, Assistant Professor
- 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


Dr. Sobiya Shafique, Assistant Professor


- Dr. Asad Shabbir, Assistant Professor
- Dr. Naureen Akhtar, Assistant Professor
- Dr. Shahbaz Ahmad, Assistant Professor

- 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]
Dr. Muhammad Ali, Assistant Professor


Ms. Sana Hanif, Lecturer


Mr. Muhammad Shafiq, Lecturer

- Mr. Adnan Zahid, Lecturer
- 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, 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)


Dr. Zaheer Hussain, Lecturer


Mr. Waheed Anwar, Research Officer


RESEARCH COLLABORATION

- Indigenous
  - Central Cotton Research Institute, Multan
o Ayub Agricultural Research Institute, Faisalabad
o Environment Protection Department (EPD), Lahore
o Rice Research Centre Bahawalnagar.
o Adaptive Research Farm Gujranwala (Agriculture Department).
o Centre of Excellence in Molecular Biology.
o Higher Education Commission Islamabad.

• Foreign Linkages
  o Punjab University – PARB – University of Toronto, Canada
  o Punjab University – ICARDA – USDA, University of Arizona, USA

• Funding Grants for R&D
  o 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).
  o M. Saleem Haider. PARB funded research project for CLCuV resistance, Worth Rs 28 million (2009-2013)
  o 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.
  o 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.
  o 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/-)
  o Dr. Arshad Javaid, (2011-12), "Lumsum Research Grant" by University of the Punjab Lahore (Grant Rs.769,000/-)
  o 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/-)
  o 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/-
  o 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
  o 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

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

- Projects (ii) Newly Launched

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Project Name</th>
<th>Name of Faculty Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>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.</td>
<td>Prof. Dr. Rukhsana Kausar</td>
</tr>
<tr>
<td>3.</td>
<td>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</td>
<td>Prof. Dr. Rukhsana Kausar</td>
</tr>
<tr>
<td>4.</td>
<td>Creating Interfaith Compassion and Reducing Prejudice</td>
<td>Dr. Naumana Amjad</td>
</tr>
<tr>
<td>5.</td>
<td>Belief in a just world, Aggression and Well-being among Plaintiffs.</td>
<td>Dr. Iram Fatima</td>
</tr>
<tr>
<td>6.</td>
<td>Job satisfaction, organizational commitment and Turnover intentions in relation to perceived organizational commitment in Punjab University administrative staff.</td>
<td>Ms. Shazia Khalid</td>
</tr>
<tr>
<td>7.</td>
<td>Psychological Stress, Distress, Lifestyle and Anthropometric Correlates of Essential Hypertension.</td>
<td>Dr. Rafia Rafique</td>
</tr>
<tr>
<td>8.</td>
<td>Perceived Health Status and Quality of Life among Renal Transplant Recipients</td>
<td>Dr. Fatima Kamran</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Project Name</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>9.</td>
<td>Psycho-Social and Behavioral Skills Profiling, Assessment and their Association with Job Performance in Non-Teaching and Administrative Staff of a Public Sector University.</td>
<td>Ms Tahira Mubashir</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Papers Published</th>
<th>Name of Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sr. No.</td>
<td>Papers Published</td>
<td>Name of Author</td>
</tr>
<tr>
<td>--------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>15.</td>
<td>Quality of Life among Renal Transplant Recipients in Pakistan (scientific monograph) (International publication by VDM publishers, available at <a href="http://www.amazon.com">www.amazon.com</a>)</td>
<td>Dr. Fatima Kamran</td>
</tr>
<tr>
<td>16.</td>
<td>Season of Birth and Schizophrenia (scientific monograph) (International publication by VDM publishers available at <a href="http://www.amazon.com">www.amazon.com</a>)</td>
<td>Dr. Fatima Kamran</td>
</tr>
<tr>
<td>17.</td>
<td>Living with a Kidney Transplant (scientific monograph) (International publication by VDM publishers available at <a href="http://www.amazon.com">www.amazon.com</a>)</td>
<td>Dr. Fatima Kamran</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>21.</td>
<td>Conducted One day workshop on statistical analysis in center of Clinical Psychology, PU, Lahore (March 7, 2012)</td>
<td>Dr. Iram Fatima</td>
</tr>
<tr>
<td>22.</td>
<td>Extension Lecture on ethical standards in research in center of clinical psychology, PU, Lahore. (May 16, 2012).</td>
<td>Dr. Iram Fatima</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>23.</td>
<td>Conducted One day workshop on regression analysis in Lahore college for women University, Lahore (May 18, 2012)</td>
<td>Dr. Iram Fatima</td>
</tr>
<tr>
<td>24.</td>
<td>Conducted One day workshop on Moderation through regression analysis in GCU Lahore (March 6, 2013)</td>
<td>Dr. Iram Fatima</td>
</tr>
<tr>
<td>26.</td>
<td>Rafique., R. 11th Muslim Psychology Conference (May 10th 2013) at Fountain House Lahore. Organized by the Society for the Advancement of Muslim Psychology</td>
<td>Dr. Rafia Rafique</td>
</tr>
<tr>
<td>28.</td>
<td>Presented at the International Multidisciplinary Conference on Ethics, Spirituality and Freedom (18th – 19th Feb, 2013) at Govt. Fatima Jinnah College for Women, Chuna Mandi, Lahore</td>
<td>Dr. Rafia Rafique</td>
</tr>
<tr>
<td>29.</td>
<td>Presented at 3rd International Conference on Business Management (27th-28th February, 2013) at UMT, organized by School of Business and Economics.</td>
<td>Dr. Rafia Rafique</td>
</tr>
<tr>
<td>30.</td>
<td>Attended a Workshop on Chronbach Alpha by Dr Dutta Roy at Center for Clinical Psychology University of the Punjab, 19th December, 2012.(Moderated)</td>
<td>Dr. Rafia Rafique</td>
</tr>
<tr>
<td>35.</td>
<td>Attended a two day workshop on “motivational interviewing” organized by Centre for Clinical Psychology, University of the Punjab, 18th—19th March, 2013.</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Conference/Seminar/Workshop</td>
<td>Name of Faculty Member</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>36.</td>
<td>Attended international Conference on “Psychology and Challenges of the Modern World” organized by Department of Applied Psychology, University of the Punjab. 17-18th December, 2012</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>37.</td>
<td>Moderator in session of psychosexual issues at International conference of applied psychology (ICAPP-2012), University of the Punjab, Lahore on 18 December, 2012</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>38.</td>
<td>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, 15th December 2012</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>39.</td>
<td>One day workshop on “Designing Qualitative research” by Dr Urusa Fahim, California, USA, organized by Centre For Clinical Psychology, University of the Punjab. 13th December, 2012</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>40.</td>
<td>Attended training in the Trauma Buster Technique for Post traumatic stress illumination, by Rehana Webster, EFT Master, September 2012 at Sahil Organization.</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>41.</td>
<td>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</td>
<td>Ms Omama Tariq</td>
</tr>
<tr>
<td>42.</td>
<td>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</td>
<td>Ms Omama Tariq</td>
</tr>
</tbody>
</table>
**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 “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**
  o 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.
  o 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.
  o 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
  o 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.
  o 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**
  o 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**
  o 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 biopesticides 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

<table>
<thead>
<tr>
<th>Name of researcher/ sponsoring agency</th>
<th>Title of research project with duration</th>
<th>Financial support</th>
<th>Main goals (proposed/achieved)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Mahjabeen Saleem University of the Punjab</td>
<td>Potential of bacterial strains for bioremediation of pulp and paper industry effluents</td>
<td>Rs. 0.15 Million</td>
<td>To check the ability of biological treatment process for decolourization of industrial effluents</td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami University of the Punjab</td>
<td>Human eye lens of Local population.</td>
<td>Rs. 0.15 Million</td>
<td></td>
</tr>
<tr>
<td>Dr. Saba Irshad University of the Punjab</td>
<td>Characterization of BCR-ABL in CML patients of Pakistan</td>
<td>Rs. 0.15 Million</td>
<td>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</td>
</tr>
<tr>
<td>Dr. Zahoor Qadir Samra University of the Punjab</td>
<td>Surface Layer Proteins as Nano carrier for Therapy and Diagnosis Duration: 1 Year</td>
<td>Rs. 0.125 Million</td>
<td>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.</td>
</tr>
<tr>
<td>Ms. Mamoona Naz University of the Punjab</td>
<td>Identification of a high risk haplotype for the dystrobrevin binding protei-1 (DTNBP-1) gene and interleukin-12B in schizophrenia as genetic markers Duration: 1 Year</td>
<td>Rs. 0.125 Million</td>
<td>Role of diagnostic strategy in treatment of schizophrenia</td>
</tr>
<tr>
<td>Ms. Iram Gull University of the Punjab</td>
<td>Determination of uric acid levels by uric acid test strips Duration: 1 Year</td>
<td>Rs. 0.125 Million</td>
<td>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.</td>
</tr>
</tbody>
</table>
### Projects (ii) Newly Launched

<table>
<thead>
<tr>
<th>Name of researcher/ sponsoring agency</th>
<th>Title of research project with duration</th>
<th>Financial support</th>
<th>Main goals (proposed/achieved)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Mahjabeen Saleem</td>
<td>Influence of Apolipoprotien E4 (ApoE) and Leptin Gene Variations on Hypertension.</td>
<td>Rs.0.150 Million</td>
<td>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</td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami</td>
<td>Molecular Basis of Action of Neem (Azadirachta Indica) derived compounds as Biopesticides.</td>
<td>Rs. 2.262 Million</td>
<td></td>
</tr>
</tbody>
</table>

---

### Research & Development

#### Research Projects on-going

<table>
<thead>
<tr>
<th>Name of researcher/sponsoring agency</th>
<th>Title of research project with duration</th>
<th>Financial support</th>
<th>Main goals (proposed/achieved)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. M. Shahbaz Aslam University of the Punjab</td>
<td>Delignification of Wood Pulp by Recombinant Laccases Duration: 1 Year</td>
<td>Rs. 0.125 Million</td>
<td>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.</td>
</tr>
<tr>
<td>Ms. Afshan Iqbal University of The Punjab</td>
<td>Isolation, Characterization and immobilization of extracellular alpha amylase from mutant Bacillus Subtilis Duration: 1 Year</td>
<td>Rs. 0.125 Million</td>
<td>Development of mutant Bacillus subtilis Enzyme estimation Purification and characterization of the enzyme Enzyme Immobilization Immobilized enzyme assay</td>
</tr>
<tr>
<td>Ms. Beenish Kashif Hashmi University of the Punjab, Lahore.</td>
<td>Studies on antioxidant enzyme activities at different ripening stages of fruits and vegetables. Duration: 1 Year</td>
<td>Rs. 0.125 Million</td>
<td>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</td>
</tr>
</tbody>
</table>

---

**Note:** The table above provides a detailed overview of ongoing research projects, including the name of the researcher/sponsoring agency, title of the research project with duration, financial support, and main goals (proposed/achieved). The projects cover a variety of topics, from delignification of wood pulp to the development of mutant Bacillus subtilis and antioxidant enzyme studies. The financial support varies, with some projects receiving substantial funding, such as Rs. 2.262 million for the study of Neem-derived compounds as biopesticides. Each project aims to achieve specific scientific and practical goals, contributing to advancements in both academic and industrial research.
<table>
<thead>
<tr>
<th>Name of researcher/ sponsoring agency</th>
<th>Title of research project with duration</th>
<th>Financial support</th>
<th>Main goals (proposed/achieved)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Amtul Jamil Sami University of the Punjab</td>
<td>Biochemical basis of inhibition of digestive amylase of coleopteran insects and human by Azadirachta indica.</td>
<td>Rs.0.150 Million</td>
<td></td>
</tr>
<tr>
<td>Dr. Saima Sadaf PAS</td>
<td>Production of recombinant cytokine of therapeutic importance</td>
<td>Rs.1.98 Million</td>
<td>Production of granulocyte colony stimulating factor for neutropenia treatment</td>
</tr>
<tr>
<td>Dr. Saima Sadaf University of the Punjab</td>
<td>Implementing MicroRNAs in the Diagnosis of Acute Myocardial Infarction</td>
<td>Rs.0.150 Million</td>
<td></td>
</tr>
<tr>
<td>Dr. Saba Irshad University of the Punjab</td>
<td>Mutational Analysis of DNMT3A Gene in Pakistani Patients with Acute Myeloid Leukemia (AML)</td>
<td>Rs.0.150 Million</td>
<td></td>
</tr>
<tr>
<td>Dr. Moazzam Ali University of the Punjab</td>
<td>Investigation of endocytic role of human small GTPase Rab28</td>
<td>Rs.0.150 Million</td>
<td>To study the function of human Rab28 and localization Study of effects on cell functioning upon its knockdown</td>
</tr>
<tr>
<td>Ms. Mamoona Naz University of the Punjab</td>
<td>Genetic susceptibility and identification of potential role of Vitamin D biomarkers for diagnosis and prognosis of Arthritis in Pakistani Population</td>
<td>Rs.0.125 Million</td>
<td>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</td>
</tr>
<tr>
<td>Mr. M. Shahbaz Aslam</td>
<td>Recombinant production of consensus envelop domain III protein of Dengue Virus; A Candidate Tetravalent Dengue Vaccine.</td>
<td>Rs.0.125 Million</td>
<td>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</td>
</tr>
<tr>
<td>Name of researcher/ sponsoring agency</td>
<td>Title of research project with duration</td>
<td>Financial support</td>
<td>Main goals (proposed/achieved)</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>----------------------------------------</td>
<td>------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Ms. Irma Gull University of the Punjab</td>
<td>Heterologous expression of phytase in plants.</td>
<td>Rs.0.125 Million</td>
<td></td>
</tr>
<tr>
<td>Mrs. Afshan Iqbal University of the Punjab</td>
<td>Genetic studies of genes involved in bioremediation in microbes</td>
<td>Rs.0.125 Million</td>
<td></td>
</tr>
<tr>
<td>Mrs. Beenish Kashif Hashmi University of the Punjab</td>
<td>Isolation and production of antineoplastic enzyme producing microbes from soil samples</td>
<td>Rs.0.125 Million</td>
<td></td>
</tr>
<tr>
<td>Ms. Ferhana Hussain University of the Punjab</td>
<td>Optimization and Molecular characterization of Bacterial isolates from oil contaminated soil samples.</td>
<td>Rs.0.125 Million</td>
<td></td>
</tr>
</tbody>
</table>

### Publications

<table>
<thead>
<tr>
<th>Name of Faculty Members</th>
<th>Title of Research Papers</th>
<th>Name of Publishing Journal</th>
<th>Vol.</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. M. Amin Athar</td>
<td>Heterologous expression, immunochemical and computational analysis of recombinant human interferon alpha 2b</td>
<td>SpringerPlus</td>
<td>2:264</td>
<td></td>
</tr>
<tr>
<td>Hafsa Aziz, Abida Raza, Shahnaz Murtaza, Yasir Waheed, Ali Khalid, Javaid Irfan, Zahoor Samra, Muhammad Amin Athar</td>
<td>Molecular epidemiology of hepatitis C virus genotypes in different geographical regions of Punjab Province in Pakistan and a phylogenetic analysis</td>
<td>International Journal of Infectious Diseases</td>
<td>17 (4)</td>
<td>2.173</td>
</tr>
<tr>
<td>Mahjabeen Saleem, Nusrat Yasmin</td>
<td>biochemical characterization of fruit-specific pathogenesis-related antifungal protein from basari banana</td>
<td>Microbiological Research</td>
<td>DOI: 10.1016/j.micres.2013.08.010</td>
<td>2.3</td>
</tr>
<tr>
<td>Mahjabeen Saleem, Sumaira Ahmad, Mubashir Ahmad</td>
<td>Potential of Bacillus cereus for bioremediation of pulp and paper industry wastes</td>
<td>Annals of Microbiology</td>
<td>DOI: 10.1007/s13213-013-0721-y</td>
<td>1.55</td>
</tr>
<tr>
<td>Mahjabeen Saleem, Mamoon Naz, Asma Waris, Bushra Muneer and Rukhshan Khurshid.</td>
<td>Screening of Pneumococcal Pneumonia by Amplification of Pneumolysin Gene in Children Visiting Hospitals in Lahore, Pakistan</td>
<td>Iranian Journal of Pediatrics</td>
<td>22, 524-530</td>
<td>0.258</td>
</tr>
<tr>
<td>Name of Faculty Members</td>
<td>Title of Research Papers</td>
<td>Name of Publishing Journal</td>
<td>Vol.</td>
<td>Impact Factor</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------------------</td>
<td>----------------------------</td>
<td>------</td>
<td>--------------</td>
</tr>
<tr>
<td>Mahjabeen Saleem, Burarah Arooj, Sameen Ahmed, Rukhshan Khurshid, Muddasar Zia</td>
<td>Serum trace elements in diagnosis of breast malignancy</td>
<td>J Ayub Med Coll Abbottabad</td>
<td>24(2)</td>
<td></td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami</td>
<td>A simple method for the isolation and cloning of genomic DNA from dried bone tissues of Indus river dolphin Platanista minor</td>
<td>Annals of Biological Research</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami (Co-authors) AR Shakoori</td>
<td>Potential of Azadirachtin and neem (Azadirachta indica) based saponins of invitro insect pest cellulose inhibition and invivo repellency on Tribolium castenum</td>
<td>Journal of medicinal Plant research</td>
<td></td>
<td>0.68</td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami</td>
<td>Digestive Cellulose hydrolyzing activity (endo- β-1, 4- D-glucanase) in the gut and salivary glands of Blister beetles Mylabris postulata</td>
<td>Pakistan Journal of Zoology</td>
<td>43 393-401.</td>
<td>0.20</td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami</td>
<td>Inhibition of cellulase activity and growth retardation of associated bacterial strains from Aulacophora foviecollis; a green insect pest by two glycosylated flavonoids, isolated from Mangifera indica leaves&quot; (2011)</td>
<td>Journal of Medicinal Plant Research</td>
<td>18 184-190</td>
<td>0.565</td>
</tr>
<tr>
<td>Dr. Amtul Jamil Sami</td>
<td>Gene study within the 5' flanking regions of growth hormone gene of first exon in Bos indicus</td>
<td>African Journal of Biotechnology</td>
<td>10 332-336</td>
<td>0.533</td>
</tr>
<tr>
<td>Name of Faculty Members</td>
<td>Title of Research Papers</td>
<td>Name of Publishing Journal</td>
<td>Vol.</td>
<td>Impact Factor</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------</td>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Dr. Saima Sadaf, (Co-authors) Shaista Bashir, M. Waheed Akhtar</td>
<td>Enhanced production and refolding of human leptin expressed in Escherichia coli</td>
<td>Pakistan journal of Biochemistry and Biotechnology (PJBMB)</td>
<td>45(i)</td>
<td></td>
</tr>
<tr>
<td>Zahoor Qadir Samra, Snober Ahmad, Mehwish Javeid, Nadia Dar, Muhammad Shahbaz Aslam, Iram Gull, and Mubashar Mustaneer Ahmad</td>
<td>Anticancer medicines (doxorubicin and methotrexate) conjugated with magnetic nanoparticles for targeting drug delivery through iron</td>
<td>Preparative Biochem. Biotech.</td>
<td>43:781–797</td>
<td>0.47</td>
</tr>
<tr>
<td>Zahoor Qadir Samra, Nadia Dar, Mehwish Javed</td>
<td>Imunochemical and PCR analysis of Staphylococcus aureus enterotoxin B (SEB) in milk and fruit juices collected in Lahore city, Pakistan</td>
<td>Arch Biol Sci.</td>
<td>65 (3), 1113-1121</td>
<td>0.36</td>
</tr>
<tr>
<td>Dr. Zahoor Qadir Samra, (Co-authors) Nadia Dar, M. Amin Athar</td>
<td>Biocatalytic activity of recombinant human β Mannosidase immobilized onto magnetic nanoparticles for bioprocess.</td>
<td>Preparative Biochem. Biotech.</td>
<td>49, 97-112</td>
<td>0.466</td>
</tr>
<tr>
<td>Yasir Sharif, Saba Irshad</td>
<td>Animal Models for human genetic diseases. (IF: 0.57)</td>
<td>African Journal of Biotechnology</td>
<td>11(86), 15200-15205</td>
<td>0.57</td>
</tr>
<tr>
<td>Saba Irshad, Butt MA, Joyia A.</td>
<td>Frequency of different Bcr-abl Fusion Transcripts in CML Patients in Pakistan</td>
<td>International Journal for Agro Veterinary and Medical Sciences</td>
<td>6(6): 418-423</td>
<td></td>
</tr>
<tr>
<td>Dr. Saba Irshad, (Co-authors) Rabiya Nawab</td>
<td>A Molecular Genetic Study of Autosomal Recessive Primary Microcephaly in three Pakistani Kindred</td>
<td>Basic Sciences of Medicine</td>
<td>1(3)</td>
<td></td>
</tr>
<tr>
<td>Nazir Z, Saba Irshad,</td>
<td>Stem Cell Based Gene Therapy</td>
<td>Biopolymers and Cell</td>
<td>29(1): 33-41.</td>
<td>0.355</td>
</tr>
<tr>
<td>Moazzam Ali and Field, M.C.</td>
<td>Cell density-dependent ectopic expression in bloodstream form Trypanosoma brucei</td>
<td>Experimental Parasitology</td>
<td>134, 249-255</td>
<td>2.12</td>
</tr>
<tr>
<td>Name of Faculty Members</td>
<td>Title of Research Papers</td>
<td>Name of Publishing Journal</td>
<td>Vol.</td>
<td>Impact Factor</td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------------------</td>
<td>---------------------------</td>
<td>------</td>
<td>--------------</td>
</tr>
<tr>
<td>Siddiqui R. Mujtaba N and Mamoona Naz</td>
<td>Incidence of Y chromosome microdeletions in Pakistani infertile men</td>
<td>Iranian Journal of reproductive Medicines</td>
<td>Code. 91.31</td>
<td>0.275</td>
</tr>
<tr>
<td>Iram Gull, (Co-authors) M. Shahbaz Aslam Zahoor Qadir Samra, M. Amin Athar</td>
<td>Inhibitory effect of Allium sativum and Zingiber officinale extracts on clinically important drug resistant pathogenic bacteria.</td>
<td>Annals of clinical Microbiology and Antimicrobials</td>
<td>11</td>
<td>1.7 (unofficial)</td>
</tr>
<tr>
<td>Iram Gull, Zahoor Qadir Samra, Muhammad Shahbaz Aslam and Muhammad Amin Athar</td>
<td>Heterologous expression, immunochemical and computational analysis of recombinant human interferon alpha 2b</td>
<td>SpringerPlus,</td>
<td>2:264</td>
<td></td>
</tr>
<tr>
<td>Iram Gull, (Co-authors) Aamir Ali, abdul Majid, Asif Saleem, Namia Huma Naveed and Shagufta Naz</td>
<td>In vitro conservation and production of vigorous and desiccate tolerant synthetic seeds in Stevia rebaudiana.</td>
<td>Journal of medicinal plant research</td>
<td>6</td>
<td>0.879</td>
</tr>
<tr>
<td>Afshan Iqbal, Mamoona Naz, Ferhana Hussain, Mahjabeen Saleem and Beenish Kashif Hashmi</td>
<td>Association of SOD2 gene polymorphism with noise induced hearing loss in textile industry employees</td>
<td>African Journal of Biochemistry Research</td>
<td>7 (7), 122-127</td>
<td></td>
</tr>
<tr>
<td>Sumaira Pervaiz, Tayyaba Shaheen, Shumaila Shaheen, Nadia Dar and Zahoor Qadir Samra</td>
<td>Purification, characterization and preparation immunomatrixes of S-layer proteins of Thermobifida fusca</td>
<td>J Appl Micro,</td>
<td>115, 735-743</td>
<td>2.1</td>
</tr>
<tr>
<td>Sumaira Pervaiz and Saba Irshad,</td>
<td>Neurological Diseases and Stem Cells</td>
<td>IJAVMS</td>
<td>6: 398-412</td>
<td></td>
</tr>
<tr>
<td>Bariza Malik, N. Rashid, N. Ahmad, M. Akhtar</td>
<td>Escherichia coli signal peptidase recognizes and cleaves the signal sequence of α-amylase originating from Bacillus licheniformis,</td>
<td>Biochemistry (Moscow)</td>
<td>78 (8): 1215-1221</td>
<td>1.06</td>
</tr>
</tbody>
</table>

- **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: 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 Sadj 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 Sadj 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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Researcher/Sponsoring Agency</th>
<th>Title of research project with duration</th>
<th>Financial support</th>
<th>Main goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Dr. Javed Iqbal/Pak-US Collaborations</td>
<td>Enhance the sugarcane production in Pakistan by Modern Breeding Technology</td>
<td>US$71610.00</td>
<td>Completed</td>
</tr>
</tbody>
</table>
**Projects (ii) Newly Launched (in progress)**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Researcher/Sponsoring Agency</th>
<th>Title of research project with duration</th>
<th>Financial support</th>
<th>Main goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. Dr. Javed Iqbal</td>
<td>Strengthening of the School of Biological Sciences</td>
<td>Rs. 377.328 million</td>
<td>Infrastructure development of SBS</td>
</tr>
<tr>
<td></td>
<td>Higher Education Commission</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Prof. Dr. M. Waheed Akhtar</td>
<td>Production of Bioenergy from plant biomass (a collaborative project with major share of the School of Biological Sciences Lab.)</td>
<td>Rs. 260.329 Million (129.52 million Punjab University component share)</td>
<td>Develop biotechnology for the production of ethanol from plants biomass (under progress).</td>
</tr>
<tr>
<td></td>
<td>Higher Education Commission</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ministry of Sciences and Technology.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pakistan Academy of Sciences</td>
<td>Production of recombinant cytokine of therapeutic importance</td>
<td>Rs.1.982 million</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Higher Education Commission</td>
<td>Free circulating molecular markers in cancer diagnosis of tuberculosis using amultiplex microbead immunoassay</td>
<td>Rs.4.198 million</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EMRO (WHO) Switzerland</td>
<td>Validation study of a rapid and reliable diagnosis of tuberculosis using amultiplex microbead immunoassay.</td>
<td>US$.12,729.27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pak-US S&amp;T Cooperation</td>
<td>Rapid detection of infection and drug resistance in tuberculosis patients by multiplex analysis</td>
<td>US$.262,342.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Govt. of Pakistan</td>
<td>Preparation and applications of growth hormone injectables (A component of the project “Strengthening of School of Biological Sciences”)</td>
<td>Rs. ~50 mil. (total amount 377.328 mil)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pakistan Academy of Sciences</td>
<td>Over-expression of therapeutic proteins in bacteria and yeast for applications</td>
<td>Rs. 1.982 mil</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HEC, Pakistan</td>
<td>Free circulating molecular markers in cancer diagnosis and prognosis amongst different population groups.</td>
<td>Rs. 4.197 mil.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pakistan-US Science and Technology Cooperation</td>
<td>Rapid detection of infection and drug resistance in</td>
<td>US$ 231,441</td>
<td></td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Researcher/Sponsoring Agency</td>
<td>Title of research project with duration</td>
<td>Financial support</td>
<td>Main goals</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------</td>
<td>----------------------------------------</td>
<td>------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Program 2009</td>
<td>tuberculosis patients by multiplex analysis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEC, Pakistan</td>
<td>Free circulating molecular markers in cancer diagnosis and prognosis amongst different population groups.</td>
<td>Rs. 4.197 mil.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pakistan-US Science and Technology Cooperation Program 2009</td>
<td>Rapid detection of infection and drug resistance in tuberculosis patients by multiplex analysis</td>
<td>US$ 231,441</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Prof. Naeem Rashid Higher Education Commission of Pakistan</td>
<td>Discovering the missing phosphofructokinase in hyperthermophilic archaeon Pyrobaculum caliditontis</td>
<td>Rs. 5,962,000/-</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Sadaf Naz Higher Education Commission of Pakistan</td>
<td>Molecular characterization of dystonia and wolfram syndrome in Pakistan (3 years)</td>
<td>Rs.4,198,896.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fogarty International Centre and National Institute on Deafness and other Communication Disorders, National Institute of Health, USA</td>
<td>Genetic basis of moderate to severe hearing loss in Pakistan.</td>
<td>$270,000.00</td>
<td></td>
</tr>
</tbody>
</table>

- **Publications**
  - **Research Articles**
• 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.


• 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


• 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.

Books:
• 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

<table>
<thead>
<tr>
<th>Name of Researcher</th>
<th>Topic of Research</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>الشعر العربي المعاصر في لبنان</td>
<td>Completed</td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>الشعر العربي المعاصر في المملكة العربية السعودية</td>
<td>Under process</td>
</tr>
</tbody>
</table>

• Publications

<table>
<thead>
<tr>
<th>Authors Name</th>
<th>Article Name</th>
<th>Journal with Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Dr. Muhammad Qamar Ali</td>
<td>Iqbal and Dr. Hussain Mujeeb Al Misry</td>
<td>Oriental College Magazine, 87/3</td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>النصيحة شروطها وضوابطها</td>
<td>Oriental College Magazine, 87/3</td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>الأستاذ عبد السلام ياسين والمصدر الأساسي في نظرية</td>
<td>Oriental College Magazine, 87/4</td>
</tr>
<tr>
<td></td>
<td>منهج التدريس</td>
<td></td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>تفسير أحكام القرآن لجماعة من علماء باكستان دراسة وتحليل</td>
<td>Al-Qalam, 17/2</td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>الوطنانية: حقوق والالتزامات في ضوء الشريعة الإسلامية</td>
<td>Jihat Al-Islam, 5/1</td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>الشعر العربي بين الأصالة والتجديد</td>
<td>Oriental College Magazine</td>
</tr>
<tr>
<td>Dr. Hamid Ashraf Hamdani</td>
<td>الأخطل الصغير شاعر الحب والهوى</td>
<td>Oriental College Magazine</td>
</tr>
<tr>
<td>Dr. Haris Mubeen</td>
<td>المجلات العلمية العربية تشانها و تطورها في باكستان</td>
<td>Oriental College Magazine, Vol. 87, 4,</td>
</tr>
<tr>
<td>Dr. Hafiz Abdul Qadeer</td>
<td>ترجمة قرآن كريم از مولانا سيد شهير أحمد - ايك تجتسه</td>
<td>Majallah-e-Tahqiq</td>
</tr>
<tr>
<td>Dr. Abdul Majid Nadeem</td>
<td>النماذج من الدراسات الدلالية في تفسير القرون الخمسة</td>
<td>Oriental College Magazine, Vol. 87, 4,</td>
</tr>
<tr>
<td></td>
<td>الأولى</td>
<td></td>
</tr>
</tbody>
</table>

• Books

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

• Conferences, Seminars & Workshops etc.
### Conference/Seminar/Workshop

<table>
<thead>
<tr>
<th>Title &amp; Date</th>
<th>Sponsor</th>
<th>Organizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>مذاهب إسلامية اطلاق رواداري 07/03/2013</td>
<td>Tanzeem Al-Fajar Pakistan</td>
<td>Arabic Department</td>
</tr>
<tr>
<td>باكستانية دينية وحوارية من إمرار 06/05/2012</td>
<td>Abdul Latif Bhatai University, Khairpur</td>
<td></td>
</tr>
<tr>
<td>كتب سيرت من إمرار 102/12/2012</td>
<td>Shaikh Zayed Centre, Karachi University, Karachi</td>
<td></td>
</tr>
<tr>
<td>المؤتمر الدولي للغة العربية وهوية الأمة (العربية وهوية الأمة) - 17 أكتوبر 2012</td>
<td>University of the Punjab, Lahore</td>
<td>قسم اللغة العربية في الجامعة الأردنية، عمان، الأردن</td>
</tr>
<tr>
<td>نظرية المنهج النبوي عند الأستاذ عبدالمجيد باسين 2-12-2012</td>
<td>University of the Punjab, Lahore</td>
<td>استنبول، تركيا</td>
</tr>
<tr>
<td>النصيحة: منطلقات وبعد 12-11-2012</td>
<td>University of the Punjab, Lahore</td>
<td>مؤتمر دولي لمنظمة كلية الدعوة والإعلام بجامعة الإمام محمد بن سعود الإسلامية بالرياض</td>
</tr>
<tr>
<td>الأدب العربي وأدب الشعوب الإسلامية: أفاق التواصل الفني والموضوعي 13-14 جمادى الآخرة 1434/23-24 أيلول 2013</td>
<td>University of the Punjab, Lahore</td>
<td>جامعة آل البيت: المملكة الأردنية الهاشمية</td>
</tr>
<tr>
<td>اللغة العربية في خطر: المعجم شراكه في حمايتها 7-10 مايو 2013</td>
<td>University of the Punjab, Lahore</td>
<td>دب</td>
</tr>
<tr>
<td>الأدب العربي وأدب الشعوب الإسلامية: أفاق التواصل الفني والموضوعي 13-14 جمادى الآخرة 1434/23-24 أيلول 2013</td>
<td>University of the Punjab, Lahore</td>
<td>جامعة آل البيت: المملكة الأردنية الهاشمية</td>
</tr>
</tbody>
</table>

### Research Journals

<table>
<thead>
<tr>
<th>Journal Name</th>
<th>Editor Name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Majallah Al Qism Al Arabi, Department of Arabic, PU, Lahore Issue No. 19 / 2012</td>
<td>Prof. Dr. Khaliq Dad Malik</td>
<td>Annual</td>
</tr>
</tbody>
</table>

### 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 (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 Muhammad Akram has himself contributed 20 research articles to this volume.

- **Seminars & Papers**

  - حرم کی یاسانی، نوابیہ وقت، ۹ نومبر ۲۰۱۲
  - بریزاف ٹو مسیحی تربیت کا یہ مثال پاسدار: قائد عظم، نوابیہ وقت، ۲۵ دسمبر ۲۰۱۲
  - اقبال اور قومیت کے حوالے سے، علامہ اقبال انٹرنشنل کانفرنس، فصل آباد، ۲۹ نومبر ۲۰۱۲
  - مطابقت کی نذریہ، علامہ اقبال اور عصر حاضر، نوابیہ وقت لیبرل، ۳۱ اپریل ۲۰۱۳

- **Research Journals**

  - داکتر سید محمد اکرم بروفسر مسند اقبالات کی تحقیقی مقالات کی عنوان دیرہ بن، یہ مقالات دائرہ معاشرہ اقبال کی نسیم جلد من طباعت کی نظر میں
  - علامہ اقبال کے نظر سے
  - محمد عزیز: علامہ اقبال کے نظر میں معماری: کا بیان اقبال کے کلام میں
  - محمد صلی اللہ علیم، سرنگان کی حیات طبیعی اور اقبال کا خراج تحسین
  - نیویارک: شخصیت کلام اقبال کے حوالے سے
  - عربی یزید: کی امتیز مزاحمہ اقبال کے نظر میں
  - قومیت: فکر اقبال کا ام ترین مسلم
  - موت: اقبال کے نظر میں
  - مرزائے علامہ اقبال اور اقبال کی حاضری اور اطمینان ارکان
  - فاطمہ الزینہ: مسلمان خواتین کی لیے اسلام کا مطلب
  - گوئٹی: "پاہم میں" کے حوالے سے
  - عثمان ایران: علامہ اقبال کے نظر میں
  - فارسی گزین: اور سبک اقبال
  - عبدالقادر الجلینی (شیخ الشیخ)
  - عصر حاضر
  - عمر بن الخطاب
  - امام حسن
  - 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)

  - **Research Articles**
    - Dr. Khawaja Zahid Aziz, Promotion of Islamic Literature in Kashmir, Tehqeeq, 2012
    - Dr. Khawaja Zahid Aziz, Bainama Amiritsar-Ak-Tareekhi Jaiza, Tehqeeq, 2012
    - Dr. Khawaja Zahid Aziz, Promotion of Persian Literature in Kashmir, Safeena, Pakistan, vol. 10, P. 40 to 44, Y. 2013
    - Dr. Khawaja Zahid Aziz, Contribution of Kashmir to Arabic Literature, Oriental College, Magazine, 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, Kashmiriyat Department, University of the Punjab, Lahore.
  - Kashmir Aur Wasat Asia, 16th November, 2012, Kashmiriyat Department, University of the Punjab, Lahore.
  - Masla-e-Kashmir Aalmi Tanzar Main, 04th December, 2012, Kashmiriyat Department, University of the Punjab, Lahore.
  - Kashmir Main Bartanvi Mohaqeqeen Ka Kirdar, 16th January, 2013, Kashmiriyat Department, University of the Punjab, Lahore.
  - Kashmir Main Arabi Zaban wa Adab Ki Tarveej, 13th February, 2013, Kashmiriyat Department, University of the Punjab, Lahore.
Kashmiri Aur Farsi Zaban Ky Rawabit, 7th March, 2013, Kashmiryat Department, University of the Punjab, Lahore.

Gilgit Baltistan ---- Ak Jaiyza, 24th April, 2013, Kashmiryat Department, University of the Punjab, Lahore.

Dr. Miss Gomri, Bartenvi Kashmiri Shiayra, 29th May, 2013, Kashmiryat Department, University of the Punjab, Lahore.

**International Conferences:**

- Sheikh Noor-ud-Din Rashi aur Falsfa-e-Tasawuf, Sheikh Noor ud Din Chair, Srinagar University, Srinagar Kashmir, 30th August, 2013.

**DEPARTMENT OF PERSIAN**

- **Publications**
  - Books/Edited
    - Ghulam Moeen ud Din (2012), Urdu Translation of Amir Khusro’s Persian Poetry (Selected by Sufi Tabbassam), Packages, Lahore
    - Ghulam Moeen ud Din (2012), Risale-ye- Adab al Mashq by Baba Shah Isfahani, Tehran, Iran.
    - Muhammad Saleem Mazhar & Nasir Muhammad, (2012) Translated, Edited and Annotated Raja Anwar’s Urdu Book “Qabar ki Aghoosh” with the title “Aghosh e Qabar. Department of Persian, University of the Punjab, Lahore
    - Muhammad Saleem Mazhar (2012) Department of Persian, University of the Punjab, Lahore
    - Muhammad Nasir (2012) & Muhammad Saleem Mazhar, Translated, Edited and Annotated Raja Anwar’s Urdu Book “Qabar ki Aghoosh” with the title “Aghosh e Qabar. Department of Persian, University of the Punjab, Lahore
  - Research Articles
    - Ghulam Moeen ud Din (2012), سيد بجوى رحمت الله عليه كي مناطر، Muaraf e Oliya, Lahore. Vol (10) Issued # 04, 23-30
    - Ghulam Moeen ud Din (2012), "أين أفق" از سيد محمد اکرم کي بار، Paghaam e Ashna, Cultural Conciliate Islamic Republic of Iran. Vol (13), Issued #50,188-194
    - Ghulam Moeen ud Din (2012), كشف المحجوب، طبع محمود عابدي، تعارف و جامعه، پاژیات، شعب: اردبو "
- Ghulam Moeen ud Din (2012), Dr. Qasem Safi “An Important Iranian Pakistan Studies, Scholar”, Qoumi Zaban, Karachi.
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 31, Sr. No. 81, 61-76
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No. 82, 05-32
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No. 83,35-44
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No 84, 05-26
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 32, Sr. No 85, 03-18
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 86, 05-16
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 87, 45-52
- Muhammad Nasir, Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No. 324, 99-114
- Muhammad Nasir, Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No. 325, 93-100
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 88, 25-42
- Muhammad Nasir, Oriental College Magazine, University of the Punjab, Lahore, Pakistan. Volume 87, Sr. No. 326, 105-133
- Muhammad Nasir, Danesh, Iran Pakistan Research Institute, Islamabad, Vol 108, 137-153
- Muhammad Nasir, Safeenah, A Research Journal of Department of Persian, University of the Punjab, Lahore. Vol (10), 201-207
- Muhammad Nasir, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 89
- Syed Muhammad Farid, Majallah-e-Tahqiq, University of the Punjab, Lahore, Pakistan. Volume 33, Sr. No. 89
- Ahmad Shoaib, “سعود خان ملتنی اور مناقب مشايخ” Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 273-276, 2012
- Nazia Uzma Zareen, “بررسی نعیت و منفیت سرایان به زبان فارسی در سنند” Safeenah Research journal, Department of Persian, University of the Punjab, Volume 10, pp 153-175, 2012.

**Conferences, Seminars & Workshops etc.**

**DEPARTMENT OF PUNJABI**
- Publications
Books
- Prof. Dr. Saeed Khawar Bhutta. Raj Kahani, Sanjh, 2013

Research Articles
- Prof. Dr. Ismat ullah Zahid. "Syed Bullayh Shah ki Shairi mai amno Sakon or Bardasht ka Pegam" Majallah Marifa 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 Issue 1 (Oct-Dec 2012)
- Prof. Dr. Saeed Khawar Bhutta "Raj Kahani Bary Kujh Gallan" Tamahi Sangri Jild No.2 Issue 2 (Oct-Dec 2012)
- Prof. Dr. Saeed Khawar Bhutta "Lal Badshah" Monthly Punjabi Adab Jild No.28 Issue 5,6 (May-June 2013)
- Prof. Dr. Saeed Khawar Bhutta "Mirza Sahiban" Monthly Punjabi Adab Jild No.28 Issue 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 Faird kay sufiana nazaryaat Khoj No.69 Department of Punjabi, Oriental College, Punjab University, (Jul - Dec 2012),
- Dr. Naveed Ahmed Shahzad Khawaja Ghulam Faird 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 Oriintel College Magazine, University Oriental College, Punjab University, (Jul - Dec 2012),.
- Dr. Zaheer Ahmed Shafique Punjabi sufiana shairy witch 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.
- 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)
Annual Report 2012-13

DEPARTMENT OF URDU

Publications

- Prof. Dr. Muhammad Fakhar-ul-Haq Noori. N. M. Rashed ki Nazmon kay Angraiizi 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 Religious 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


- Prof. Dr. Zahid Munir Amir, Allama Asad aur Punjab University Wasl o Fasl included in : Muhammad Asad Aik Europian Badwi M Ikram Chughtai Pakistan writers Co Operative Society Lahore. 2013.

- Prof. Dr. Zahid Munir Amir, Islam, Iqbal Taharruk aur Takheleqiat 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 twentytieth 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.


- 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.

- **Conferences, Seminars & Workshops etc.**
  - Prof. Dr. Muhammad Kamran. Seminar Topic: European Conference on Arts and Humanities. England, Brighton: 16 to 19 July 2013


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:

- 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 Communicación.

Accepted for Publication:

  o Published:

  o Book Reviews

  o Book Chapters

  o Books

• Other Projects in Process
  o A study about the phonetics of the nasal sounds in Chinese by Pakistani Students (Amna Rakha).
  o A study of Hebrew language grammar (Tony Williams).
  o 6 more research projects have been applied for, to be ready in 2014.

• Conferences, Seminars & Workshops etc.

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

o 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.

o 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.

o 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.

o 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.

o 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
  o Recognized and historical Research Journal “Oriental College Magazine” has been publishing since 1925.

RESEARCH COLLABORATION

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

UNIVERSITY COLLEGE OF PHARMACY

• Research & Development – An Overview
  o 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, Saiqa Ishtiaq, Sairah Hafeeez 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**
  - **Prof Dr. Mobasher Ahmad Butt**
Dr. Nadeem Irfan Bukhari

Dr. Khalid Hussain

Syed, N.H.

Sabiha Karim
Fatima Rasool

Dr. Hamid Saeed

Imran Tariq
Poloxamer/Silicon Dioxide Gel Formulations and their Rheological Characterization. Latin American Journal of Pharmacy. 32 (6): 911-6 (2013). (IF= 0.308)


Pervaiz Akhtar Shah


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.

Fatima Rasool

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
- 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

- 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 Ottago University, New Zealand as external supervisor of PhD students.

CENTRE OF EXCELLENCE IN SOLID STATE PHYSICS

- Projects (ii) Newly Launched

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Duration</th>
<th>Sponsoring Agency</th>
<th>Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2 years</td>
<td>Higher Education Commission</td>
<td>38.533 Million</td>
</tr>
<tr>
<td>2.</td>
<td>6 months</td>
<td>Higher Education Commission</td>
<td>0.5 Million</td>
</tr>
</tbody>
</table>

- Publications

2012


- M. Khalid, S. Riaz and S. Naseem, Surface passivation of Ti/4H-SiC Schottky barrier diode, Communication in Theoretical Physics, 58, 2012, 577


- 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
- 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
- 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. Sajid, S. M. Alay-e-Abbas, A. Afaq and A. Shaukat, Structural, Electronic and Optical Properties of MgS$_x$Se$_{1-x}$, MgS$_x$Te$_{1-x}$ and MgSe$_x$Te$_{1-x}$ (0 x 1) alloys From First Principles, Int. J. Mod. Phy. B, 26, 2012, 1250098


2013


S. Riaz, A. Sajid, M.A. Jamil and S. Naseem, Optical and structural properties of evaporated ZnxCd1-xS(0≤x≤1) thin films, Advanced Science letter, 19, 2013, 719


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 SYNOPSYS 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


- 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
- 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
- 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 nano ferrites, J. Alloys and Compounds, 7, 2013, 570

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


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


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

Conferences, Seminars & Workshops etc.

2012


- S. Atiq, Z. Ullah, M. Saleem and S. Naseen, 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. Naseen, Origin of Ferromagnetism in TMs doped ZnO Based DMS Materials, Presented at ICCMPE-12 held at BZU, Multan, Pakistan, December 27-29, 2012

2013


- A. Akbar, S. Riaz and S. Naseem, Improved Magnetic Properties of Sol-Gel Derived FeO4 Nanoparticles for Bio-Medical Applications,
- International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), Namur, Belgium, July 15 – 19, 2013


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:-
- 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.

**Conferences, Seminars & Workshops etc.**

<table>
<thead>
<tr>
<th>Sr.#</th>
<th>Event</th>
<th>Lecture Delivered</th>
<th>Date</th>
</tr>
</thead>
</table>
| 1    | 5th International Meeting on Particles and Fields | **International**
  E. S. Swanson and M. A.K.Lodhi, USA
  Adnan Bashir and Alejandro Ayala, Mexico
  Gernot Eichmann, Austria
  Viqar Hussain, Canada
  CHI Yunlong, China
  TahsinBabacan, Turkey
  **National**
  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 | 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

<table>
<thead>
<tr>
<th>Name of Researcher</th>
<th>Sponsoring Agency</th>
<th>Financial Support</th>
<th>Research Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Najam-ul-Sehar Afshan</td>
<td>University of the Punjab, Lahore</td>
<td>1,50.000/-</td>
<td>Botany</td>
</tr>
<tr>
<td>Ms. Bushra Nisar</td>
<td>------</td>
<td>1,25000</td>
<td>Zoology</td>
</tr>
<tr>
<td>Ms. Humaira Tariq</td>
<td>------</td>
<td>1,25000</td>
<td>English</td>
</tr>
<tr>
<td>Ms. Sadaf Aslam</td>
<td>------</td>
<td>1,25000</td>
<td>Zoology</td>
</tr>
</tbody>
</table>

- Projects (ii) Newly Launched

<table>
<thead>
<tr>
<th>Name of Researcher</th>
<th>Sponsoring Agency</th>
<th>Financial Support</th>
<th>Research Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Najam-ul-Sehar</td>
<td>University of the Punjab, Lahore</td>
<td>1,50.000/-</td>
<td>Botany</td>
</tr>
<tr>
<td>Name of Researcher</td>
<td>Sponsoring Agency</td>
<td>Financial Support</td>
<td>Research Area</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------</td>
<td>-------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Ms. Bushra Nisar</td>
<td>------</td>
<td>1,25000</td>
<td>Zoology</td>
</tr>
<tr>
<td>Ms. Humaira Tariq</td>
<td>------</td>
<td>1,25000</td>
<td>English</td>
</tr>
<tr>
<td>Ms. Amara Dar</td>
<td>------</td>
<td>1,25000</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Ms. Sadaf Aslam</td>
<td>------</td>
<td>1,25000</td>
<td>Zoology</td>
</tr>
</tbody>
</table>

- **Publications : Book Chapter Published**

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Journal</th>
<th>Volume</th>
<th>Publishing Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Shabnum Javed</td>
<td>Aleo Vera Gel in Good, Heal Products and Cosmetics Industry</td>
<td>Studies in Natural Products Chemistry</td>
<td>41(1)</td>
<td>Elsevier Science Publisher (Netherlands)</td>
</tr>
</tbody>
</table>

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

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

- **Research Journals**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Author</th>
<th>Title</th>
<th>Journal</th>
<th>Volume</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Ms. Bushra Nisar</td>
<td>Serum Chemistry variable of Bengali tiger kept in various form of captivity</td>
<td>Pakistan Veterinary Journal</td>
<td>32(2)</td>
<td>283-285</td>
</tr>
<tr>
<td>2.</td>
<td>Dr. Najam-ul-Sehar Afshan</td>
<td>Impact of captivity on social behavior of chimpanzee at Lahore zoo Pakistan.</td>
<td>The Journal of Animal and plant Sciences</td>
<td>23(3)</td>
<td>779-785</td>
</tr>
<tr>
<td>3.</td>
<td>Dr. Najam-ul-Sehar Afshan</td>
<td>New records of Puccinia species on Poaceae from Pakistan.</td>
<td>Mycotaxon</td>
<td>120</td>
<td>407-413</td>
</tr>
<tr>
<td>4.</td>
<td>Dr. Najam-ul-Sehar Afshan</td>
<td>Three new Caecoma species on Rosa spp. from Pakistan.</td>
<td>Mycotaxon</td>
<td>120</td>
<td>239-246</td>
</tr>
<tr>
<td>5.</td>
<td>Dr. Najam-ul-Sehar Afshan</td>
<td>Some additions to the Uredinales (rust fungi) of fairy meadows northern areas of Pakistan.</td>
<td>Journal of yeast and Fungal Research</td>
<td>3(5)</td>
<td>65-73</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Author</td>
<td>Title</td>
<td>Journal</td>
<td>Volume</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>--------</td>
<td>--------</td>
<td>-------</td>
<td>---------</td>
<td>--------</td>
<td>--------------</td>
</tr>
<tr>
<td>6.</td>
<td>Ms. Shabnum Javed</td>
<td>Comparative studies on the hypocholestrimic effect of branded and conventional yogurt</td>
<td>Health MED</td>
<td>7(1)</td>
<td>92-97</td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td>Essential Oils and Lattices and Novel Antiviral Agents against Potato Leaf Roll virus and analysis of Their Phytochemical Constituents Responsible for Antiviral Activity</td>
<td>Journal of Microbiology Research</td>
<td>7(24)</td>
<td>3071-3077</td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td>Hypoglycemic and hypolipidemic effects of Cephalotaxus sinensis in STZ-induced diabetic rats</td>
<td>Journal of Medicinal Plants Research</td>
<td>7(19)</td>
<td>310-316</td>
</tr>
<tr>
<td>10.</td>
<td></td>
<td>Comparative antimicrobial activity of clove and fennel essential oils against food borne pathogenic fungi and food spoilage bacteria</td>
<td>African Journal of Biotechnology</td>
<td>11(94)</td>
<td>6065-16070</td>
</tr>
<tr>
<td>12.</td>
<td>Mr. Muhammad Younis</td>
<td>Construction of m-Point Binary Approximating Subdivision Schemes</td>
<td>Applied Mathematics Letters</td>
<td>26(3)</td>
<td>337-343</td>
</tr>
<tr>
<td>15.</td>
<td></td>
<td>The Quaternary Interpolating Scheme for Geometric Design</td>
<td>ISRN Computer Graphics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.</td>
<td></td>
<td>The m-Point Quaternary Approximating Subdivision Schemes</td>
<td>American Journal of Computational Mathematics</td>
<td>3(1A)</td>
<td>6-10</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Author</td>
<td>Title</td>
<td>Journal</td>
<td>Volume</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>--------</td>
<td>--------</td>
<td>-------</td>
<td>---------</td>
<td>--------</td>
<td>--------------</td>
</tr>
<tr>
<td>17.</td>
<td>Mr. Muhammad Younis/Mr. Asim Zafar</td>
<td>Travelling Wave Solutions of Fractional Order Coupled Burgers’ Equations by $(G'/G)$-Expansion Method</td>
<td>American Journal of Computational and Applied Mathematics</td>
<td>3(2)</td>
<td>81-85</td>
</tr>
<tr>
<td>19.</td>
<td>Mr. Asim Zafar</td>
<td>$Q(\sqrt{m} ) \setminus Q$ under the action of $PSL(2, Z) \cap \langle x, y : x^2 = y^6 = 1 \rangle$</td>
<td>Journal of Applied Sciences, Engineering and Technology</td>
<td>5(6)</td>
<td>1916-1922</td>
</tr>
<tr>
<td>20.</td>
<td></td>
<td>Quadratic Irrationals under the action of subgroups of hecke group $H(\sqrt{3})$.</td>
<td>Journal of basic and Applied Scientific Research</td>
<td>3(2)</td>
<td>115-122</td>
</tr>
<tr>
<td>21.</td>
<td></td>
<td>$G$-subsets of an Invariant subset $Q^*(\sqrt{k^2 m})$ of $Q(\sqrt{m} ) \setminus Q$</td>
<td>Under the Modular Group action, Utilities Mathematics</td>
<td>91</td>
<td>377-387</td>
</tr>
</tbody>
</table>

**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 Dumping 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)
Research & Development

- 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**


Conferences


o 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


o 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.

o Mariyam Zameer, attended “Composting Techniques” (one day conference) at NUST, Islamabad on March 2013.

o Muhammad Shafiq, attended “Composting Techniques” (one day conference) at NUST, Islamabad on March 2013.

o Mariyam Zameer, attended “Environmental Issues” (one day Conference/ Seminar) at Kinnaird College for Women Lahore on 7th of May, 2013.

- **Seminars:**

  o 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.

  o 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


- **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:-

- 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.Aslam Malik, S.M.Husnine and M. Asim Zafar, Certain H-subsets of $\mathbb{Q}(\sqrt{m})\setminus\mathbb{Q}$ under the action of $H = \{ x, y : x^3 = y^3 = 1 \}$, Pakistan Journal of Science, Vol. 64 No. 1 March, 67-74, 2012.

M. Aslam Malik, Nousheen Gohsi, Invariant subsets of $\mathbb{PLQ}(\sqrt{m})$ under the action of $M = \{ x, y : x^2 = y^6 = 1 \}$, Pakistan Journal of Science, Vol. 64 No. 3 Sep, 2012, 247-257.


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.


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-Newtoniam 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)
o Ms. Maasoomah Sadaf delivered the lecture on “Non-polynomial Spline Solution of Fifth-order Boundary Value Problems” (Maths. Dept. PU Lahore May 29, 2013)


o Mr. Muhammad Azam delivered the lecture on “Spherical thin-Shell Wormholes and Modified Chaplygin Gas” (Maths. Dept. PU Lahore September 09, 2013)

o Prof. Dr. Malik Zawwar Hussain, Conducted three days’ workshop on Mathematica, School of Mathematical Sciences, University Sains Malaysia, September 10-12, 2013.

o Prof. Dr. Malik Zawwar Hussain delivered a talk on “Data visualization, School of Dental Sciences”, University Sains Malaysia, September 15, 2013.

o 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**
  - Ghulam Murtaza Rai, Muhammad Azhar Iqbal, Yong-bing Xu, Iain Gordon Will and Qasim Mahmood (2012) Room Temperature Ferromagnetism in Ga$_{1-x}$Ho$_x$N ($x=0.0$ and $0.05$) Diluted Magnetic Semiconductor Thin Films *Chinese J. Chem Phys* 25 IF (0.692)
  - 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)
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)


Dr. Hafiz Muhammad Rafique Yan Long, H⁺, N⁺, and Ar⁺ ion irradiation induced structure changes of carbon nanostructures Carbon, 60, 5625 IF(0.868)

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 RamoonaShehzadi, (Co-author) Appraisal of drinking water quality of tehsil Jampur, Pakistan

Dr. H.M. Rafique AttiaFalak (Co-author) Spatio-temporal analysis of groundwater regime within Rawalpindi Municipal Jurisdiction, Pakistan, Desalination and Water Treatment Desalination and Water Treatment

Dr. MunazzaZulfiqar Ali Effective medium parameters for 1D photonic crystalbzh containing single-negative material layers using the envelope function approach CHINESE OPTICS LETTERS 11 (.040501) IF(0.968)

Dr. AtharJaved 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. AtharJaved Mössbauer study of vacuum annealed Fe100-xGax (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 PenIn 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 press5.1

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 The metals-to-dust ratio to very low metallicities using GRB and QSO absorbers; extremely rapid dust formation Astronomy and Astrophysics (A&A) Under review5.1

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

• **Funding Grants for R&D**  
  o 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**  
  o S.R Ahmad, S.A Mahmood, A Masood and J.Qureshi. DEM based Computation of topographic surface roughness to reveal incision in Gilgit Baltistan, Pakistan Journal of Science, Vol 65. no 01 (March 2013) pages 167-172 (HEC Recognized)  
  o 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.  
  o 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).  

• **Conferences, Seminars & Workshops etc.**  
  **In-house Seminars Organized:**  
  o 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 Athar Javaid, 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.
- 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: 1,2500/-
- From University of the Punjab, Lahore, Pakistan

• Publications

- Dr. Makshoof Athar
  - 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
  - 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
  o Dr. Tajamal Hussain
  o Miss Rabia Rehman
- 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).


  Dr. Umar Farooq


Dr. Tariq Mahmud

- 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).

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


Dr. Farah Kanwal

- Muhammad Adnan Iqbal, Shujah Zaib, Rosenani A. Haque, Muhammad Imran, Narimah Samat, Farah Kanwal. Inhabitants close to the main roads at the outskirts of MetropolitanCities are exposed more to SOx; Euclalyptus Tree as Bioindicator, Polish Journal of Environmental studies, 21(2), 2012, 375-379.


Dr. M. Abdul Qadir


- Dr. Muhammad Rouf Alvi


- Zahoor H. Farooqi

  
  
  
  

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


Journal Articles

- 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)
- 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, HinaNaeem 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 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.
  - Dr. Adnan Mujahid
  - Muhammad Imran Din


- Conferences, Seminars & Workshops etc.
  - Muhammad Imran Din

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.

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

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

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Projects Title</th>
<th>Investigator</th>
<th>Amount (Rs. million)</th>
<th>Sponsoring Agency</th>
<th>Duration (year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Evaluation of indirect methods for the determination of Uniaxial compressive strength of tertiary limestones.</td>
<td>Prod. Dr. M. Saeed Farooq</td>
<td>0.250</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>2.</td>
<td>Biostatigraphy of the Upper Paleocene Lockhart Limestone of Kala Chitta Area, Northern Pakistan</td>
<td>Dr. Shahid Jamil Sameeni</td>
<td>0.20</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>3.</td>
<td>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</td>
<td>Dr. Sajid Rashid Ahmad</td>
<td>0.150</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>4.</td>
<td>Depositional Framework for Upper Cretaceous Rocks Exposed North of Nathiagali Thrust, Hazara NW Lesser Himalayas, Pakistan</td>
<td>Dr. Naveed Ahsan</td>
<td>0.150</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>5.</td>
<td>Sedimentology of the Lower Eocene Sakesar Limestone, Salt Range, Pakistan.</td>
<td>Dr. Shahid Ghazi</td>
<td>0.70</td>
<td>Pakistan Science Foundation</td>
<td>03</td>
</tr>
<tr>
<td>6.</td>
<td>Sedimentology of the Early Eocene Sequence, Central Salt Range, Pakistan</td>
<td>Dr. Shahid Ghazi</td>
<td>0.150</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>7.</td>
<td>Carbonate Microfacies Analysis and Diagenetic Framework of the Paleocene Lockhart Limestone Nammal Gorge, Western Salt Range, Pakistan</td>
<td>Dr. Abdur Rauf Nizami</td>
<td>0.150</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>8.</td>
<td>Correlation of mineral and mechanical properties of Salt Range Rocks</td>
<td>Dr. Mian Sohail Akram</td>
<td>0.150</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Projects Title</td>
<td>Investigator</td>
<td>Amount (Rs. million)</td>
<td>Sponsoring Agency</td>
<td>Duration (year)</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------------------------------------------------------------------</td>
<td>-------------------------------------</td>
<td>----------------------</td>
<td>------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>9.</td>
<td>Sedimentology and Biostratigraphy of the Paleocene Lockhart Limestone of Jabri Area, Hazara, Northern, Pakistan.</td>
<td>Mr. Adnan Abdul Karim</td>
<td>0.125</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>10.</td>
<td>Identification and Evaluation of Stream Sediments for Construction Materials of Potwar Region, Pakistan.</td>
<td>Mr. Rana Ammad Bin Sadiq</td>
<td>0.125</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>11.</td>
<td>Subsurface Structural Interpretation of Mayal Area, North Potwar Deformed Zone (NPDZ) and Fracture Analysis of Sakesar Limestone, Potwar Area, Pakistan</td>
<td>Mr. Muhammad Armaghan Faisal Miraj</td>
<td>0.125</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>12.</td>
<td>Estimation of Arsenic concentration in ground water in the selected areas of Rachna-Doaab, Northern Punjab, Pakistan</td>
<td>Mr. Muhammad Sanaullah</td>
<td>0.125</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
<tr>
<td>13.</td>
<td>Water quality analysis of Lahore, Kasur and Faisalabad using GIS Technique</td>
<td>Ms. Sidra Sana</td>
<td>0.125</td>
<td>University of the Punjab, Lahore</td>
<td>01</td>
</tr>
</tbody>
</table>

- **Publications**

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

  - Prof. Dr. M. Saeed Farooq
  
  - Prof. Dr. Nasir Ahmad

Dr. Shahid Jamil Sameeni


Dr. Sajid Rashid Ahmad

- 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.


Dr. Shahid Ghazi


Dr. Abdur Rauf Nizami


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. Perveiz Khalid

Muhammad Sanaullah

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 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) form 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 form 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.

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

**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**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Author</th>
<th>Title of Paper/Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Muhammad Akram · Saadia Shahzad · Arif Butt · Abdul Khaliq</td>
<td>Intuitionistic Fuzzy Logic Control for Heater Fans. Published in journal of Mathematics in Computer Science 11768, Article: 161 SCOPUS Impact Factor 0.43</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Author</td>
<td>Title of Paper/Article</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>4</td>
<td>Jaffry, S.W., and Treur, J.,</td>
<td>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)</td>
</tr>
<tr>
<td>9</td>
<td>Sidra Faisal, Mansoor Sarwar</td>
<td>Temporal and Multi-Versioned XML Documents: A Survey – Information Processing &amp; Management (IPM) – 0.817</td>
</tr>
<tr>
<td>10</td>
<td>Muhammad Shahid Farid, Arif Mahmod</td>
<td>An image composition algorithm for handling global visual effects. Multimedia Tools and applications Nov. 30, 2012. Impact factor 1.014</td>
</tr>
</tbody>
</table>

**Conferences, Seminars & Workshops etc.**

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of Author</th>
<th>Conference Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Haris, M., Jaffry, S. W.,</td>
<td>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</td>
</tr>
<tr>
<td>Sr. No.</td>
<td>Name of Author</td>
<td>Conference Publication</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>2</td>
<td>Saeed, A. R., Jaffry, S. W.,</td>
<td>21st ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, November 5-8, 2013, Orlando, Florida, USA. 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.</td>
</tr>
<tr>
<td>5</td>
<td>Fawaz S. Bokhari, Gergely Zaruba</td>
<td>i-POCA: Interference-aware partially overlapping channel assignment in 802.11-based meshes Conference: IEEE WoWMoM 2013</td>
</tr>
<tr>
<td>6</td>
<td>Muhammad Shahid Farid, Maurizio Lucenteforte, Marco Grangetto</td>
<td>Depth Image Based Rendering with Inverse Mapping Sep. 30, 2013</td>
</tr>
<tr>
<td>7</td>
<td>Muhammad Shahid Farid, Maurizio Lucenteforte, Marco Grangetto</td>
<td>Edges shape enforcement for visual enhancement of depth image based rendering Sep. 30, 2013</td>
</tr>
<tr>
<td>9</td>
<td>Muhammad Haris</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Name of Applicant</th>
<th>No. of Co-authors</th>
<th>Year</th>
<th>Title of Research Paper</th>
<th>Name of Journal</th>
<th>I.F. (X/Y)</th>
<th>Vol. No</th>
<th>Page #</th>
<th>Total Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Hafiz Muhamamd Rafiq</td>
<td>5</td>
<td>2012</td>
<td>Medium optimization of proteasee production by brevibacterium limens DSM 20158 Using statistical approach</td>
<td>Brazilian Journal of Microbiology</td>
<td>0.9</td>
<td>43</td>
<td>1051</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Hafiz Muhamamd Rafiq</td>
<td>4</td>
<td>2012</td>
<td>DEM and GIS based hypsometric analysis to investigate neotectonic influence on Hazara Kashmir Syntaxis</td>
<td>Pakistan Journal of Science</td>
<td>Y</td>
<td>64</td>
<td>3</td>
<td>NIL</td>
</tr>
<tr>
<td>Dr. Hafiz Muhamamd Rafiq</td>
<td>4</td>
<td>2012</td>
<td>Monitoring spatiotemporal and micor-level climatic variations in Lahore and suburbs using satellite imagery and multi-source data</td>
<td>Faculty of Engineering &amp; Technology</td>
<td>Y</td>
<td>19</td>
<td>1</td>
<td>NIL</td>
</tr>
<tr>
<td>Dr. Hafiz Muhamamd Rafiq</td>
<td>5</td>
<td>2012</td>
<td>Surface deformation through fractal analysis of DEM based spatial drainage patterns in Gilgit Baltistan region (northern Pakistan)</td>
<td>Pakistan Journal of Science</td>
<td>Y</td>
<td>64</td>
<td>140</td>
<td>NIL</td>
</tr>
<tr>
<td>Name of Applicant</td>
<td>No. of Co-authors</td>
<td>Year</td>
<td>Title of Research Paper</td>
<td>Name of Journal</td>
<td>I.F (X/Y)</td>
<td>Vol. No</td>
<td>Page #</td>
<td>Total Authors</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------</td>
<td>------</td>
<td>--------------------------</td>
<td>----------------</td>
<td>-----------</td>
<td>--------</td>
<td>--------</td>
<td>---------------</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>5</td>
<td>2012</td>
<td>DEM based geomorphic analysis along kalabagh fault and potwar plateau to constrain surface deformation: Inferences from remote sensing and GIS</td>
<td>Pakistan Jounal of Science</td>
<td>Y</td>
<td>64</td>
<td>2</td>
<td>NIL</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>5</td>
<td>2012</td>
<td>Diamagnetic drift instabilities in collisional non-uniform quantum dusty magnetoplasmas</td>
<td>J. Plasma Physics</td>
<td>0.94</td>
<td>1</td>
<td>589</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>6</td>
<td>2012</td>
<td>Structural studies of N-Alkyl Derivatives of Methyl Derivatives of Methyl 4-Hydroxy-2H-1, 2-Benzothiazine-3-Carboxylate-1, 1 Dioxide</td>
<td>Walilak Journal of Science and Technology (WJST), North America</td>
<td>0.086</td>
<td>10</td>
<td>375</td>
<td>NIL</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>3</td>
<td>2012</td>
<td>Structural and magnetic impact of CR+ - implantation into GaN thin film</td>
<td>Solid State Sciences</td>
<td>1.904</td>
<td>14</td>
<td>735</td>
<td>4</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>5</td>
<td>2012</td>
<td>Depth-dependent tetragonal distortion study of AlGaN Epilayer Thin Film Using RBS and Channeling technique</td>
<td>Modern Physics Letter B</td>
<td>0.47</td>
<td>26</td>
<td>1250 086</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>5</td>
<td>2012</td>
<td>Use of High intensity electron beam to form nanohole, induce bending anf fabricate nanocontact on a ZnO nanowire</td>
<td>Micro &amp; Nano Letters</td>
<td>0.94</td>
<td>7</td>
<td>122</td>
<td>6</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>4</td>
<td>2012</td>
<td>Characterization of n-GaN dilute magnetic semiconductors by cobalt ions implantation at high-fluence,</td>
<td>Journal of Magnetism and magnetic Material</td>
<td>1.78</td>
<td>324</td>
<td>797</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Hafiz Muhammad Rafiq</td>
<td>5</td>
<td>2012</td>
<td>N-(2-Bromophenyl)-4-methyl-N-(4-methylphenylsulfonyl) benzenesul fonamide not included in previous award</td>
<td>Acta Cryst. E</td>
<td>0.35</td>
<td>67</td>
<td>2356</td>
<td>5</td>
</tr>
</tbody>
</table>

- **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**


• Conferences, Seminars & Workshops etc.
  o 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.
  o 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 CDSSHP held at University of the Punjab, Lahore Pakistan from December 15 - 19, 2012.
  o 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.
  o 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.
  o 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
  o 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.
  o Research Paper on “Market efficiency in its weak forms: Evidence from Karachi Stock Exchange of Pakistan” by Muhammad Nadim Lecturer Punjab University Jhelum Campus