
NATIONAL/INTERNATIONAL RESEARCH COLLABORATIONS

Name of Researcher/ sponsoring Agency	Title of Research Project with Duration	Financial Support	Collaborating Scientist/ Institution	Joint Objectives
FACULTY OF ARTS & HUMANITIES				
Department of Archeology:				
Wisconsin University, USA	Field Training of Students at Harappa	Wisconsin University, USA	Harappa Project	To train the young faculty and students in the field of excavations, treatment of antiquities and registration of antiquities

Department of Literary History:

- Khawaja Muhammad Zakariya (Director)
- Sajid Siddique Nizami (Research Scholar)
- Sumeera Hassan (Do)
- Rubina Sultan (Do)
- Zarqa Anwar (Do)

University College of Art & Design:

- Prof. Dr. Shaukat Mahmood, Preparation of an animated film on Salah al-Din Ayubi in Collaboration with International Islamic University Malaysia.
- Prof. Dr. Shaukat Mahmood, Preparation, writing and editing of a book on the Diwan-i Khas of Fatehpur Sikri.
- Prof. Dr. Shaukat Mahmood, Conservation of Da'i Anga Tomb, Lahore sponsored by Babar Ali Foundation, Lahore.
- Prof. Dr. Shaukat Mahmood, Book of Cartoon under preparation and publication by Coopera Bookshop & Art Gallery, Lahore.
- Prof. Dr. Shaukat Mahmood, Published article on "The Art of Political Cartoons in Pakistan" published by Marg Publications, 2010, Mumbai.

FACULTY OF BEHAVIOURAL & SOCIAL SCIENCES

Department of Social Work:

- Conducted and coordinated a research project on Social Audit Survey (2009-2010) of Public Service Delivery of Governance of Local Government in collaboration with Devolution Trust for Community Empowerment (DTCE). The project was funded by UNDP & implemented by Social Work Department in Punjab.

- Supervised the research studies of a group at Masters Level, the details are as below: Session 2008-10 (morning) "Problems of Hostlised Students of Punjab University Lahore".
- Supervised Field Work practicum to the students of MA Part-I (Rural Community Development Project Mansoor, Lahore) & MA Part-II (Medical Social Services Project Sir Ganga Ram Hospital, Lahore, Urban Community Development Project No. 9, Gung Mehal, Lahore & Integrated Social Development Project, Govt. of Pakistan).
- Conducted a Survey on Social Audit Survey 2009-2010. The survey was undertaken by the Department of Social Work and Economics, University of the Punjab, Lahore in collaboration with Devolution Trust for Community Empowerment (DTCE) which was funded by UNDP.

FACULTY OF COMMERCE

Hailey College Banking & Finance:

- Currently, the College is desperately looking for a Director Research so that he / she may be appointed and can initiate various activities which will eventually result into getting grants for research projects to be sponsored by national and international agencies.

FACULTY OF ENGINEERING AND TECHNOLOGY

Institute of Quality & Technology Management:

Dr. Aamir Ijaz	An experimental study to explore the characteristics of different metals for the purpose of heat transfer by convection and radiation. One (1) year	University of the Punjab	Dr. Aamir Shafique	To explore new materials for heat transfer materials
Dr. Muhammad Usman Awan	Measurement of Service Quality in public sector Hospitals Six (6) months	Not required	Dr. Jayesh Aagja, Institute of Management, Nirma University, Ahmedabad	To develop Service Quality scale for public sector hospitals of India and Pakistan
Dr. Muhammad Usman Awan	Measurement of Service Quality for foreign Students studying at University of the Punjab Six (6) months	University of the Punjab	Dr. Rodney Arambewela, Deakin University Australia	To develop Service Quality scale for foreign students in Pakistan

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FACULTY OF LIFE SCIENCES				
Department of Microbiology and Molecular Genetics:				
Prof. Dr. Shahida Hasnain/HEC	Bioremediation of chromium and arsenic from industrial waste waters	0.268789 US\$	Prof. Dr. Michael J. McInerney/Uni of Oklahoma	Proposed/ Achieved
Dr Sikander Sultan/ DEST, Australia	Effects of biochar on soil microbial biomass carbon and soil microbial activity (August 2010 - Feb 2011)	25,000 AU\$	Dr Balwant Singh, Dr. Michael Kertsz, University of Sydney, Sydney, Australia	Achieved
Ms. Rida Batool /HEC	'Reduction potential analysis of indigenous chromium reducing bacteria" (May 2010 - October 2010)	Chemicals/ glass ware/ reagents	Dr. Shahida Hasnain, PU/ Dr. Kim Yrjala, Adjunct Professor, Department of Biological and Environmental Sciences Faculty of Biosciences, University of Helsinki, Finland.	Achieved
Ms Samreen Riaz / HEC	IRSIP (HEC scholarship) Study of protein biomarkers in Diabetes mellitus type 2 (March 2010- Aug 2010)	Chemicals/ glass ware/ reagents	Prof. Dr. Kaila Srail, Institute of Structural and Molecular Biology, Faculty of Biosciences, University College London, UK.	Achieved
Ms Sumaira Mazhar, Ph.D. Student /HEC	IRSIP (HEC scholarship) programme from (September 2009 – March 2010)	Chemicals/ glass ware/ reagents	Dr. Shahida Hasnain, PU/Prof. Jerry Cohen Department of Horticultural Science, University of Minnesota 1970 Folwell Ave., 305 Alderman Hall Saint Paul, MN 55108	Achieved

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Ms Atia Iqbal, Ph.D. Student / HEC	IRSIP (HEC scholarship) programme from (November 2009 – May 2010)	Chemicals/ glass ware/ reagents	Dr. Shahida Hasnain, PU /Dr. Malamy Jocelyn, Department of Molecular Biology and Genetics, University of Chicago, Chicago, USA	Achieved
Ms Aisha Waheed Qurashi, Ph.D. Student/ HEC	IRSIP (HEC scholarship) programme from (November 2009 – May 2010)	Chemicals/ glass ware/ reagents	Dr. Anjum Nasim Sabri, P.U /, Prof. Ann M. Hirsch, University of California Los Angeles (UCLA) USA.	Proposed/ Achieved
Saba Shamim, Ph.D student/DAAD Scholarship	Cadmium tolerance and removal by bacteria	Chemicals/ glass ware/ reagents	Dr. Abdul Rehman P.U/ Prof. Dr. Lukas, Germany	Proposed/ In process
Department of Zoology:				
Dr. Abida Butt/ University of the Punjab	Effects of agricultural practices and refugia on pest control potential of spider residing rice fields of Punjab, Pakistan.	1.07 Million Rupees	Pakistan Science Foundation	Continue
Institute of Plant Pathology:				
Dr. Rukhsana Bajwa/ HEC	Biology, ecology and management of Parthenium weed (<i>Parthenium hysterophorus</i>): A threatening weed for natural and agroecosystems	12.71 Million Rupees	Dr. Steve Adkins, University of Queensland, Australia/ NWFP Agriculture University, Peshawar	<ul style="list-style-type: none"> • Capacity building of the collaborating units. • To enhance quality of training undergraduate & graduate students. • Healthier population free of weed allergies.
Dr. Arshad Javaid/ Pakistan Science Foundation	Natural compounds from allelopathic trees as antifungal agents against <i>Ascochyta rabiei</i> (Pass.) Lab.	2.012256 Million Rupees	Prof. Dr Makshoof Athar Institute of Chemistry, Univerisyt of the Punjab Lahore	<i>In vitro</i> evaluation of antifungal activity of aqueous and organic solvent extracts of different parts of four allelopathic

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				<p>trees against <i>A. rabiei</i>.</p> <ul style="list-style-type: none"> • <i>In vivo</i> evaluation of antifungal potential of most effective extracts selected on the basis of their <i>in vitro</i> effectiveness.
				<ul style="list-style-type: none"> • Separation of plant allelochemicals through fractional guided bioassay using various chromatographic techniques as per requirement of the work. • <i>In vitro</i> and <i>in vivo</i> evaluation of various isolated fractions against the target fungal pathogen. Structural elucidation of potent antifungal compounds through various spectroscopic techniques as per requirement of the work
Dr. Shakil Ahmed, EPD	Development of Myco-technological process for treatment of Pulp & Paper industries effluent	7.03 Million Rupees	Dr. Shahjahan Baig/ PCSIR Labs. Lahore	To develop process of treatment of pulp & paper industries effluent at small scale.

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School of Biological Sciences:				
Prof. Dr. M. Akhtar			University of Southampton, UK	
Prof. Javed Iqbal Pak-USA	Enhance the sugarcane production in Pakistan by Modern Breeding Technology		Dr. Yong-Bao Pan, Research Plant Molecular Genetics, USDA-ARS, MSA. Sugarcane Research Laboratory, 5883 USDA Road Houma, LA 70360, USA	<ul style="list-style-type: none"> • Screening of sugarcane clones and germplasm for resistance to red rot and rust using conventional pathological procedure. • Bulk segregant analysis (BSA) to identify RAPD markers that are only produced by the disease resistant germplasm
Prof. Dr. M. Waheed Akhtar Higher Education Commission	Study of protein biomarkers for early detection of pathological states.		University of California, Davis, USA.	
Prof. Dr. M. Waheed Akhtar / Ministry of Sciences and Technology.	Production of Bioenergy from plant biomass (a collaborative project with major share of the School of Biological Sciences Lab.)		Cornell University, USA	
Prof. Dr. M. Waheed Akhtar / Government of Pakistan	Preparation of application of growth hormones injectables (part of		Strathclyde University, U.K.	

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Prof. Dr. M. Waheed Akhtar / EMRO (WHO) Switzerland	the project "Strengthening of School of Biological Sciences) Validation study of a rapid and reliable diagnosis of tuberculosis using amultiplex microbead immunoassay.		University of California, Davis, USA	
Pak-US S&T Cooperation	Rapid detection of infection and drug resistance in tuberculosis patients by multiplex analysis		University of California Davis, USA	
Dr. Sadaf Naz	Genetics of cleft lip with or without cleft palate (CL/P)in Pakistan		Dr. Edward Wilcox Brigham Young University, Provo, Utah, USA	To identify novel loci and genes and to determine contribution of known CL/P genes in Pakistani population
Dr. Sadaf Naz	Molecular characterization of Oculocutaneous Albinism (OCA) and related syndrome in Pakistan		Bahauddin Zakriya University, Multan, Pakistan & Rehan Siddiq Shaikh	

FACULTY OF SCIENCE

Department of Physics:

National: PINSTECH, INMOL & Shaukat Khanum Hospital, SUPARCO, Govt. College University, CSSP, Department of Meteorology ,LUMS, UET, PIEAS, PNRA and PCSIR

Department of Sports Science:**National/International research collaborations**

- Texas Tech University, Texas, U.S.A.
- Pakistan Meteorological Department
- SUPARCO
- WWF
- NESPAK

Centre for High Energy Physics:

Dr. Haris Rashid Mr. Talab Hussain Mr. Abrar Ahmad Zafar	BESIII Data Analysis	N.A.	Prof. Jin Shan, Institute of High Energy Physics, Beijing China.	To share research between the Institute and to publish results in International Research Journals.
Dr. Bilal Masud	Mathematical modeling of Quark Energies, and the surfaces used in it	N.A.	Dr. Sadataka Furui, School of Science and Engineering, Teiko University, Utsunomiya, Japan.	Fundamental Research
	Strong meson decays and meson loops.	HEC	Dr. Eric Swanson Pittsburgh University, U.S.A.	Fundamental research
Dr. Munawar Iqbal	Development of Electron Beam Welding Unit	N.A.	Dr. H.M.Akram, Dy.Dir.NINAST Islamabad.	Applied Research
	Laser Ablation	N.A.	Prof. Dimitri Batani, Department of Physics, University of Milan, Italy.	Basic Research
	EGUN Program	N.A.	Prof.M.A.K Lodhi Department of Physics, Texas Tech University, Texas, U.S.A.	Basic Research
Dr. Maqsood Ahmad Dr. Alam Saeed	BABAR Experiment	N.A.	Prof. Sajjad Alam, Department of Physics, University at Albany, U.S.A.	Experimental Research

Institute of Chemistry:

Hussain Ebrahim Jamal (HEJ), Research Institute of Chemistry, Karachi University, Karachi.