

# Curriculum Vitae

**Fazal Ur Rehman**

**Associate Professor (Tenured)**



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**Date Of Birth** July 07, 1980

## Education

**Ph.D. (Microbiology)** 2011  
Quaid-i- Azam University, Islamabad, Pakistan.

**Thesis Title:** " Biodegradation of Polycyclic Aromatic Hydrocarbons by Soil Bacteria"

**M.Sc. (Biology/Animal Sciences)** 2003  
Quaid-e-Azam University Islamabad, Pakistan.

**B.Sc. (Sciences)** 1998  
University of Balochistan, Quetta, Pakistan

## AWARDS & HONORS

2005	PhD Scholarship Awarded by the Higher Education Commission (HEC), Islamabad, Pakistan
2007	International Research Support Awarded by Higher Education Commission (HEC), Islamabad
2014	Best Research Paper Award Awarded by Higher Education Commission (HEC), Islamabad

## Research Grants

Title of the Project	Amount	Sponsoring Agency	PI, Co-PI/ Status
Detection and Isolation of <i>E.coli</i> from Milk Samples	0.125 M	Relief International	Principal Investigator/ Completed
Detection of pathogenic microbial load, enteric parasites and heavy metals contents in wastewater irrigated vegetables of Quetta	0.38 M	UBRF	Principal Investigator/ Completed
Identification Of Genes Involved in Genetics Disorders in Balochistan	8.3M	HEC	Co-Principal Investigator/ Completed
Delineating Genes Underlying Hereditary Nephrotic Syndrome in Balochistan Population using Highly Parallel Genetic Technologies	2.43 M	UBRF	Co-Principal Investigator/ Ongoing

## Research

### Experience

2004-2010

#### Research Associate

Microbiology Research laboratory,  
Department of Microbiology,  
Quaid-i-Azam University Islamabad, Pakistan

Dec 2007-June 2008

Feruary-October 2009

#### Visiting Researcher

Center for Environmental Biotechnology,  
University of Tennessee, Knoxville, USA

## Academic

### Services

June 2011-Feb 2012

#### Assistant Professor

Department of Microbiology,  
Faculty of life Sciences  
Balochistan University of Information Technology, Engineering & Management Sciences, Quetta, Pakistan

2012 to 2023

Description of Job: Teaching to postgraduate students and research

**Assistant Professor**

Department of Microbiology,

Faculty of life Sciences

University of Balochistan, Quetta, Pakistan

Description of Job: Teaching to postgraduate students and research

2023 to date

**Associate Professor**

Department of Microbiology,

Faculty of life Sciences

University of Balochistan, Quetta, Pakistan

Description of Job: Teaching to postgraduate students and research

## Administrative

## Services

2019 to 2022

**Incharge Chairperson**

Department of Microbiology

Faculty of life Sciences

University of Balochistan, Quetta, Pakistan

2022 to date

**Chairperson**

Department of Environmental Science,

Faculty of Environmental and Physical Sciences,

University of Balochistan, Quetta, Pakistan

## Membership

Member American society of Microbiology

Member Pakistan Biological Safety Association

## Languages

English:       fluent

Urdu:           National language

Pashto:        First language

## A- List of Publications in Journals Having IF (Impact Factor) \*

S.#	Name of Author	Complete Name of Journal and Address with ISSN (Print) No.	Title of the Publication	Vol. No. & Page No.	Year published	Impact Factor
1	Muhammad Ayub, Xing Xiong, Saima Anwer, Janine Altmüller, Muhammad Naeem, Noor Hassan, Kafaitullah Khan, Susanne Motameny, Samira Khaliq, <b>Fazal Ur Rehman</b> , Syed Ashraf Uddin, Abdul Wali, Regina Betz, Sulman Basit.	J. Med & Life	A homozygous nonsense mutation identified in COL7A1 in a family with autosomal recessive dystrophic epidermolysis bullosa	VOL: 17 ISSUE: 9	2024	1.2
2	Sanaullah Khan, Habib ur Rehman, Kaleemullah Mandokhail, Niamatullah Kakar, Asmatullah Khan, Jameelur Rehman, <b>Fazalur Rehman</b> , Qudratullah, Syed Zahid Ali Shah and Mujeebur Rehman.	Indian Journal of Biochemistry & Biophysics	Proteomic analysis of Substantia nigra proteins in ZTS induced Type-II diabetic rats: A possible link with Parkinson's disease.	Vol. 60 October 2023. Page 779-789	2023	1.47
3	Ghazanfar Ali , Sadia Sadia , Syeda Ain-ul- Batool, Zahid Azeem, Naheed Bashir Awan , Syed Akif Raza Kazmi , Zia- Ur- Rehman, Zeeshan Anjum, <b>Fazal- Ur- Rehman</b> , Abdul Wali, Kafaitullah Khan , Nasib Zaman, Muhammad Ayub, Muhammad Sajid, and Noor Hassan. 2023.	Hindawi. Genetics Research.	A Recurrent Nonsense Mutation in NECTIN4 Underlying Ectodermal Dysplasia-Syndactyly Syndrome with a Novel Phenotype in a Consanguineous Kashmiri Family.	Article ID 9999660, 8 pages	2023	1.2
4	Abdulahadi Almazroea , Ambreen Ijaz , Abdul Aziz, Muhammad Mushtaq Yasinzaï, Rafiullah Rafiullah, <b>Fazal Ur Rehman</b> , Shakeela Daud, Rozeena Shaikh, Muhammad Ayub and Abdul Wali.	Medicina	Identification and In Silico Analysis of a Homozygous Nonsense Variant in TGM1 Gene Segregating with Congenital Ichthyosis in a Consanguineous Family	59, 103	2023	2.7
5	Ali Akbar , Wajeeha Naeem, Faiza Liaqat, Muhammad Bilal Sadiq ,Muhammad Shafee , Zareen Gul , Shabir Ahmad Khan, Hasina Mengal, Su Hlaing Chein , Sadia Qasim, Muhammad Arshad , <b>Fazal Ur Rehman</b> ,and Hassan Sher.	Journal of Tropical Medicine.	Hospital Acquired Pathogenic Escherichia coli from Clinical and Hospital Water Samples of Quetta Balochistan.	Article ID 6495044, 8 pages	2022	2.9
6	Shabir Ahmad Khan, Ali Akbar, Muhammad Aslam, Muhammad Shafee, Abdul Samad, <b>Fazal Ur Rehman</b> , Khalid Mehmood and Imran Ali	Pak. J. Bot	Biotechnologically Potent Halophilic Fungal Biodiversity from Mangroves Ecosystem of Lasbela	Volume 54(3)	2022	0.9
7	Anum Khan, Muhammad Irfan, Ubaid Rahman, Farah Azhar, Aamer Ali Shah, Malik Badshah, Fariha Hasan, <b>Fazal ur Rehman</b> , Zulfiqar Ali Malik, and Samiullah Khan	Pak. J. Agri. Sci	A Ca+2 independent pullulanase from bacillus licheniformis and its application in the synthesis of	Vol. 58(2),	2021	0.63
8	Nazira Rashid, Muhammad Shafi, Shazia Iqbal, Muhammad Sharif Hasni, Sami Ullah, Abdul Samad, Ghulam Ishaq Khan, <b>Fazal Ur Rehman</b> , Zia Ur Rehman, Sarfaraz Ahmad, Ali Akbar	Brazilian Journal of Biology	Enterotoxigenic methicillin resistant Staphylococcus aureus contamination in salted fish from Gwadar Balochistan: MRSA contaminated in salted fish.	vol. 83, 247701	2021	1.38
9	Ambreen Ijaz, Khadim Shah, Abdul Aziz, <b>Fazal U an</b> , Yasir Ali, Abdul M Tareen, Kafaitullah Khan, mmad Ayub , Abdul Wali	Indian J of Dermatology	Novel Frameshift Mutations in XPC Gene Underlie Xeroderma Pigmentosum in Pakistani Families	Vol. 66, issue 2	2021	1.523

10	Ghazanfar Ali, Sadia, Jia Nee Foo, Abdul Nasir, Chu-Hua Chang, Elaine GuoYan Chew, Zahid Latif, Zahid Azeem, Syeda Ain-ul-Batool, Syed Akif Raza Kazmi, Naheed Bashir Awan, Abdul Hameed Khan, <b>Fazal-Ur-Rehman</b> , Madiha Khalid, Abdul Wali, Samina Sarwar, Wasim Akhtar, Ansar Ahmed Abbasi and Rameez Nisar	BioMed Research International	Identification of a Novel Homozygous Missense (c.443A>T:p.N148I) Mutation in BBS2 in a Kashmiri Family with Bardet-Biedl Syndrome	Volume 2021, Article ID 6626015, 9 pages	2021	2.37
11	Munir Ahmed Khan, <b>Fazal ur Rehman*</b> , Hasina Wali, Mujeeb-ur-Rehman, Kafait Ullah Khan, Mohammad Ayub, Sidra Mengal and Habib-ur-Rehman.	Pak. J. Agri. Sci.,	Bioprocessing of Agricultural Wastes for Value added Bacterial Amylase Production	Vol. 58(1), 261-268 ;	2021	0.63
12	Tasleem Akhtar, Ghazanfar Ali, Nuzhat Shafi, Wasim Akhtar, Abdul Hameed Khan, Zahid Latif, Abdul Wali, Syeda Ain-ul-Batool, Abdul Rehman Khan, Sadia Mumtaz, Syed Iftikhar Altaf, Sundus Khawaja, Sadia Madiha Khalid, <b>Fazal Ur Rehman</b> and Qudir Javid	BioMed Research International	Sequencing and Characterization of Mitochondrial Protein-Coding Genes for Schizothorax niger (Cypriniformes: Cyprinidae) with Phylogenetic Consideration	Volume 2020, Article ID 5980135, 13 pages	2020	2.37
13	Syed Ashraf Uddin, Nicole Cesarato, Aytaj Humatova, Axel Schmidt, <b>Fazal ur Rehman</b> , Muhammad Naeem, Sabrina Wolf, Muhammad Anwar Panezai, Holger Thiele, Abdul Wali, Regina Fölster-Holst, Sulman Basit, Muhammad Ayub, Regina C. Betz	Acta Dermato-Venereologica	Apparent Missense Variant in COL7A1 Causes a Severe Form of Recessive Dystrophic Epidermolysis Bullosa via Effects on Splicing	2020; 100: adv00275	2020	4.016
14	Ayesha Ahmed Chaudhri, Mahnoor Nadeem, Asim ur Rahman, Tayyaba Alam, Wasim Sajjad, Fariha Hasan, Malik Badshah, Samiullah Khan, <b>Fazal Rehman</b> and Aamer Ali Shah	Current Microbiology	Antioxidative and Radioprotective Properties of Glycosylated Flavonoid, Xanthorhamnin from		2020	1.87
15	Qurrat Ul Ain Rana, Muhammad Irfan, Safia Ahmed, Fariha Hasan, Aamer Ali Shah, Samiullah Khan, <b>Fazal Ur Rehman</b> , Haji Khan, Meiting Ju, Weizun Li & Malik Badshah	Biofuels	Bio-catalytic transesterification of mustard oil for biodiesel production		2019	2.87
16	HasinaWali, <b>Fazal Ur Rehman</b> , Aiman Umar and Safia Ahmed	BioMed Research International	Cholesterol Degradation and Production of Extracellular Cholesterol W1 and Serratia marcescens W8 Oxidase from Bacillus pumilus	Volume 2019, Article ID 1359528, 9 pages	2019	2.37
17	Ghulam M. Khan, Noor Hassan, Niamatullah Khan, Muhammad Humayun, Kafaitullah Khan, Samira Khaliq, <b>Fazal U. Rehman</b> , Sheikh Ahmed, Khadim Shah, Sher A. Khan, Noor Muhammad, Abdul Wali, Saadullah Khan, Sulman Basit and Muhammad Ayub	Int J Dermatol	Biallelic mutations in the LPAR6 gene causing autosomal recessive wooly hair/hypotrichosis phenotype in five Pakistani families	58(8):946-952	2019	2
18	Ali Akbara, Muhammad Bilal Sadiqb, Imran Ali, Niaz Muhammad, Ziaur Rehman, Muhammad Najam Khan, Javed Muhammad, Shabir Ahmad Khan, <b>Fazal Ur Rehman</b> , Anil Kumar Anal.	Biocatalysis and Agr. Biotech.	Synthesis and antimicrobial activity of zinc oxide nanoparticles against foodborne pathogens Salmonella	17; pages 36-42	2019	2.51
19	Fawad Ali, Muhammad Shafee, Ali Akbar, Niamatullah Khan, Munir Ahmad Khetran, <b>Fazal ur Rehman</b> and Mohammad Alam Mengal. 2018.	Rawal Medical Journal.	Frequency of pulmonary tuberculosis in afghan asylum seekers dwelling in Balochistan, Pakistan.	43(4): 577-580	2018	0.1

20	S. Andleeb, N. Atiq, M. I. Ali, <b>F. Ur-Rehman</b> , A. Hameed and S. Ahmad	Iran. J. Environ. Health. Sci. Eng.,	Biodegradation of Anthraquinone Dye by Aspergillus Niger Sal in Self Designed Fluidized Bed Bioreactor	Vol. 7, No. 5, pp. 371-376	2010	0.8
21	Muhammad Ayub, <b>Fazal Ur-Rehman</b> , Masoom Yasinzaï and Wasim Ahmad	International Journal of Dermatology	A novel missense mutation in the ectodysplasin-A (EDA) gene underlies X-linked recessive nonsyndromic hypodontia.	2010, 49, 1399–1402	2010	2
22	Muhammad Ayub 1, Sulman Basit, Musharraf Jelani, <b>Fazal Ur Rehman</b> , Muhammad Iqbal, Masoom Yasinzaï, Wasim Ahmad	The American Journal of Human Genetics	A homozygous nonsense mutation in the human desmocollin-3 (DSC3) gene underlies hereditary hypotrichosis and recurrent skin	85, 515–520,	2009	10.502

## List of Publications in HEC recognized Journals

S.#	Name of Author	Complete Name of Journal and	Title of the Publication	Vol. No. & Page No.	Year published	Impact Factor
	Asma Khattak, Zulfiqar Ali Malik, Abdul Haq, Qurrat ul ain Rana, Haji Khan, Fazl ur Rehman, Samiullah Khan, Aamer Ali Shah, Malik Badshah	I. J. Biosciences	Comparative assessment of acid and enzyme pretreatment of Spirodella polyrhiza for bioethanol production	Vol. 18, No. 6	2021	
1	Abdul Qahir, Attiq- Ur- Rehman Kakar, Naqeebullah Khan, Samiullah, Abdul Hakeem, Rehana Kamal and <b>Fazal- Ur- Rehman</b> .	Baghdad J. Biochem. Biol. Sci.	The Antioxidant, Antimicrobial, and Clinical Effects with Elemental Contents of Pomegranate (Punica Granatum) Peel Extraction: A Review	2(01); 21-28	2021	
2	Ghulam Ishaq Khan, Ali Akbar, Muhammad Anwar, Muhammad Shafee, Haleema Sadia, Abdul Razzaq and <b>Fazal Ur Rehman</b>	Pure and Applied Biology	Eco-friendly bacterial biodegradation of mycotoxins	9(3): 1708-1717,	2020	
3	Rehman Habib Ur, Kakar Asmat ullah, Kakar Niamat ullah, <b>Rehman Fazal ur</b> , Khan Deedar Ahmed, Ahmed Sarfaraz Khan and Ahmed Shakeel.	World Journal of Advanced Research and Reviews	Detrimental characteristics of climate change on livestock production and reproduction	5(3), 114-123.	2020	
4	Sidra Mengal, Saima Azam, Muhammad Kamran Taj, <b>Fazal ur Rehman</b> , Umbreen Zafar, Ajmal Nisar Mengal, Ashiq Hussain, Imran Taj, Zohra Samreen, Farooq Shahzad, Hasina wali, Syeda Ayesha Ali and Syeda Hafsa Ali.	Int. J. Biosci.	Pseudomonas aeruginosa as a pathogenic Organism.	14 (4): 286-291	2019	
5	Zarmina Wali1, Hasina Wali, <b>Fazal-Ur-Rehman</b> and Muhammad Ayub.	Int. J. Biosci	Review on genes involved in hereditary hypotrichosis	14 (4): 123-134	2019	
6	Khan K, Noor M, Wali H, Ayub M, <b>Rehman F</b> .	Pure and applied Biology	Malaria burden in human population of Khanozai, Pakistan		2018	

7	Rafiq A, Khan SA, Akbar A, Shafi M, Ali I, <b>Rehman FU</b> , Rashid R, Shakoor G and Anwar M.	Int J Pharm Sci Res.	Isolation and identification of antibiotic producing microorganisms from soil.	9(3): 1002-11	2018	
8	Binish Baig, Sheikh Ahmed, Kaleemullah Mandokhail, <b>Fazal Ur Rehman</b> , Zulfiqar Ali, Naeema Anwar, and Ashif Sajjad.	IAJPS	Hepatitis C Virus Infection: Prevention And Control - A Mini Review.	05 (03), 1885-1897	2018	
9	Habib-Ur-Rehman, Kaleemullah1, <b>Fazal ur Reman</b> , Ali akbar, Munir Ahmad Khan, Niamatullah Kakar, Muhammad Zafar Ahmad, Asmatullah Kakar, Ihsanullah Kakar, Qudratullah, Mir Ahmad Kakar, Muhammad Ayub and Siraj Ahmad Kakar.	IAJPS	Nutraceutical applications of copper, manganese and zinc in rumen metabolism and body immune processes	05 (01), 226-235	2018	
10	Zarlashta Sharif, Sheikh Ahmed, <b>Fazal ur Rehman</b> , Ashif Sajjad and Muhammad Ayub	Pure and applied Biology	A recurrent missense mutation in the LPAR6 gene underlies hereditary hypotrichosis	6(2): 685-690	2017	Y
11	Mehwish Durrani, Sheikh Ahmed, <b>Fazal ur Rehman</b> and Muhammad Ayub	Pure Appl. Biol.,	Genetic mapping of autosomal recessive hypotrichosis locus (LAH3), to chromosome 13q14.11-q21.32, in a family from Balochistan	6(3): 1053-1060	2017	Y
12	Malalai Shakoor, <b>Fazal Ur Rehman</b> , Gulmakai Shakoor, Hafsa sunniya.	IAJPS	Comprehensive Overview on the Applications of Probiotics for Healthy Animal Farming.	4 (06), 1487-1496	2017	
13	Deedar Ahmad Khan , Muhammd Kamran Taj, <b>Fazal Ur Rehman</b> , Muhammd Zahid Mustafa, Imran Taj, Ghulam Muhammad, Syed Nasrullah Agha, Zahoor Ahmad, Aziz Ullah, Shabir Ahmed.	Journal of Biodiversity and Sciences (JBES) Environmental	Isolation and identification of Klebsiella pneumonia causal agent of pneumoniae from urine of childrens in hospitals of Quetta city.	9(4), (207-212)	2016	
14	Muhammad Shafee, Nazeer Ahmed, Abdul Razzaq, <b>Fazal ur Rehman</b> , Muhammad Yakoob Zehri, Zahid Mustafa, Hafiz, Muhammad Arif and Shafiq Ahmad. V,(	Lasbela, U. J.Sci. Techl.,	Seroprevalence of Brucellosis in Small Ruminants in Turbat (Kech), Balochistan.	86-89,	2016	
15	Rabaila Riaz, Imran Sajjid, Attia Sarwr, <b>Fazal ur an</b> , Mehmood Akhtar, Syed Abdul Sadiq, mmad Naseem & NazeerJune,	. BIOLOGIA (PAKISTAN)	Molecular Characterization and Assessment of Phylogenetic Relationship among Tomato Rhizospheric Bacterial Population.	61 (1), 7-15	2015	
16	Attia Sarwar, Imran Sajjid, Rabaila Riaz, <b>Fazal ur Rehman</b> , Shahjahan Shabbir Ahmed,Naeem Shahwani, Muhammad Naseem, Nazeer Ahmad and Muhammad Mushtaq.	International Journal of Biology and Biotechnology	Bacterial Community Profiles in Rhizosphere of Paddy Rice based on 16s r RNA Sequence Analysis.	12 (1): 11-19,	2014	

17	Irfan M, Ahmed, Shafee M, Tareen AM, <b>Fazal Ur Rehman</b> , Khan SA.	Journal of Infection and Molecular Biology	Microbiological Investigation of Burn Patients in Burn Intensive Units, in Quetta, Pakistan	2 (4): 74 – 76	2014	
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## Workshops/ Seminar Organized

1. **Organizer of the Biosafety Training Workshop**, organized by Department of Microbiology and the American Society of Microbiology, UoB, Quetta, on 15<sup>th</sup> September 2014.
2. **Organizer of the two-days workshop on “Advance Research Tools Software/End Note”** with the collaboration of PASTIC and FTDC at UoB, Quetta on 11<sup>th</sup>-12<sup>th</sup> December 2018
3. **Organizer of Biosafety Awareness Training Workshop**, organized by Pakistan Biological Safety Association in collaboration with BUIITEMS and NIH Fogarty USA, at BUIITEMS, Quetta 22-24 April, 2019.
4. **Organizer of a 2 Days workshop on “Roadmap and Implementation of Biosafety and Infection Control Practices in Balochistan”** with the collaboration of Pakistan Biosafety Association held on 17 and 18th May 2022 at the Department of Microbiology, University of Balochistan, Quetta

## Workshops/ Seminar/Conferences attended/participated

5. Workshop on “**Identification, Maintenance and Preservation of Microorganisms**” organized by Department of Microbiology, Quaid-i-Azam University, Islamabad on 10-12 May 2004.
6. 2<sup>nd</sup> National Conference on “**Biotechnology and Emerging Sciences**” organized by BUIITEMS, Quetta on 15-17 March, 2005.
7. 4<sup>th</sup> International Symposium of Genetic Engineering and Biotechnology on “**Genomics, Bioinformatics, Biotechnology and Economic Development**” organized by Centre of Molecular Genetics, University of Karachi on 4-8 December, 2005.
8. **Sixth International Biennial Conference of Microbiology** organized by Department of Microbiology, Quaid-i-Azam University, Islamabad on 18-21 March, 2007.
9. National Training Seminar on **Biosafety and Biosecurity Initiatives** jointly organized by U.S. Department of State’s Biosecurity Engagement Program, Pakistan Agricultural Research Council and Planning Commission of Pakistan on 18-19 June, 2007 at Islamabad, Pakistan.
10. Workshop on **Understanding the Adult Learner** organized by Higher Education Comiision on 29-30 July, 2011 at regional center Quetta.
11. 2<sup>nd</sup> National Conference on **Biotechnology and Microbiology** organized by Center of Biotechnology and Microbiology, University of Peshawar on July, 2012 at Bara Gali Campus.
12. **Cascading Workshop of Faculty Professional Development** organized by University of Balochistan in collaboration with HEC on 18<sup>th</sup>-20<sup>th</sup> September at University of Balochistan Quetta.
13. One day Workshop on **Zoonosis** organized by Relief International on 31<sup>st</sup> August 2013 at University of Balochistan Quetta.
14. 1<sup>st</sup> National Symposium on “**New Horizons of Microbiology**” Steps of Microbes on the Ladder of Life organized by Federal Urdu University of Arts Science & Technology on 7-8 November 2012 at Karachi.
15. 02-Day Traninig Workshop on **Semester System**, organized by Faculty Training & Development Center (FTDC), UOB Quetta on 18<sup>th</sup>-19<sup>th</sup> June 2014



16. National Workshop on **Techniques used in Molecular Biology, Vaccinology and Toxicology**, organized by Center for Advanced Studies in Vaccinology and Biotechnology (CASVAB), UOB, Quetta on 25<sup>th</sup>-27<sup>th</sup> June 2014.
17. Two-Day Training Workshop on **“Tools in Life Sciences Research”** organized by Institute of Biochemistry, UoB Quetta on 23<sup>rd</sup> – 24<sup>th</sup> September 2014
18. **Project Formulation Workshop** organized by Pakistan Science Foundation at BUITEMS, Quetta on 22<sup>nd</sup> -23<sup>rd</sup> October 2014
19. 1<sup>st</sup> International Conference on **Environment and Biosciences** organized by SBKWU, Quetta on 16<sup>th</sup> -17<sup>th</sup> April 2015.
20. Workshop on **“HEC Policy Guidelines for the Implementation of uniform Semester Examination System”** organized by HEC at UoB Quetta on 3<sup>rd</sup>-4<sup>th</sup> June 2015
21. **Training/Workshop on Plagiarism Detection Service (Turnitin)** organized by QAD UoB Quetta on 26<sup>th</sup> August 2015.
22. Five Days Course on **“Biorisk Management”** organized by Relief International at Department of Microbiology, UoB Quetta on 07<sup>th</sup> -11<sup>th</sup> March 2016
23. Conference cum Workshop on **Trends in Applied Microbiology** organized by Pakistan Society for Microbiology, American Society for Microbiology and CASVAB at UoB, Quetta on 04<sup>th</sup> -5<sup>th</sup> April 2016.
24. One Day Seminar on **“Biosafety and Quality Assurance”** organized by Department of Microbiology, BUITEMS Quetta on 3<sup>rd</sup> May 2016
25. One Day Consultative Workshop on **“Policies for Commercialization of Research”** organized by PCST at 1<sup>st</sup> Invention to Innovation Summit 2016 at UoB, Quetta on 5<sup>th</sup> May 2016.
26. HEC-CASVAB UoB Workshop on **“Techniques Employed in Disease Diagnosis & Vaccine Production”** organized by CASVAB, UoB Quetta on 25<sup>th</sup> -27<sup>th</sup> October 2016.
27. Seminar on **“Research & Innovation in Higher Education”** organized by National Academy of Young Scientists and Institute of Biochemistry, UoB Quetta on 21<sup>st</sup> March 2017.
28. **Orientation Seminar on “Semester System & Its Implementation”** organized by Faculty Training & Development Center UoB, Quetta on 03<sup>rd</sup> April 2017.
29. **Project Formulation Workshop** organized by Pakistan Science Foundation at UoB Quetta on 24<sup>th</sup>-25<sup>th</sup> April 2017
30. **2<sup>nd</sup> Invention to Innovation Summit** at University of Balochistan, Quetta on 25<sup>th</sup>-26<sup>th</sup> April 2017.
31. **Biosafety awareness training workshop** organized by Pakistan biological safety association at UoB, Quetta on 2<sup>nd</sup>-4<sup>th</sup> December, 2017.
32. 7<sup>th</sup> International & 16<sup>th</sup> National Conference on **“Plant Resources: Current Trends, Challenges and Solutions”** organized by Department of Botany, Islamia College Peshawar & Department of Botany, University of Peshawar on 23-26 March, 2018.
33. **International Conference on Pharmaceutical Sciences**, organized by Faculty of Pharmacy & Health Sciences, UoB, Quetta on 26<sup>th</sup>-27<sup>th</sup> September, 2018
34. **Advanced Biological Risk Mitigation Training of Trainers Workshop**, organized by Pakistan Biological Safety Association with collaboration with Safer Behavior and NIH Fogarty USA, at COMSTECH Secretariat Islamabad on 10<sup>th</sup>-14<sup>th</sup> September, 2018
35. **Master Trainer Workshop on Bio Prism Laboratory Safety Training Initiative Program**, organized by Pakistan Biological Safety Association with collaboration with Safer Behavior and NIH Fogarty USA, at COMSTECH Secretariat Islamabad on 14<sup>th</sup>-18<sup>th</sup> January, 2019.
36. Workshop on **“Responsible Conduct in the Life Sciences”** organized by Pakistan Biological Safety Association in collaboration with NIH Fogarty USA, at COMSTECH Secretariat Islamabad on 4-8 February, 2019.
37. **Advanced Biological Risk Mitigation Wet Workshop**, organized by Pakistan Biological Safety Association with collaboration with Safer Behavior and NIH Fogarty USA, at COMSTECH Secretariat Islamabad on 13-17 March, 2019.

38. **Training of Trainers on Research Methodologies for SUNAR members**, organized by International Research Force in collaboration with Planning Commission of Pakistan and Nutrition International at Islamabad on 24-27 September, 2019.
39. Five days **Virtual Training on Biorisk Management**, organized by Association for Biorisk Management in collaboration with Health Security Partners and University of Balochistan, Quetta on 08-12 March 2021.

## Reference

**Prof. Dr. Safia Ahmed**

Vice Chancellor,

Shaheed Benazir Bhutto Women University, Peshawar.