

Prof. Dr. Malik Mujaddad Ur Rehman

Acting Vice Chancellor (2nd Tenure)

Pro-Vice Chancellor

Dean, Faculty of Health & Bio-Medical Sciences

Chairman, Department of Microbiology

Abbottabad University of Science and Technology



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Executive Summary

- i. **Post-Doctorate** in Biological & Medical Sciences (Virology & Bacteriology) from University of Arizona, United States of America (Ranked 179 QS World Ranking & 180 Times Higher Education Ranking).
- ii. **PhD in Microbiology** from Quaid-i-Azam University Islamabad (Ranked 315 QS World Ranking and 98 Asia universities ranking).
- iii. **Teaching & Research experience** including 4 years Ph.D experience = 21 years 2 months and 9 days) in the field of Higher Education at University of Arizona, USA., Quaid-i-Azam University Islamabad, Abbottabad University of Science and Technology (Abbottabad UST), Hazara University, Mansehra and NIBGE Faisalabad.
- iv. **Administrative Experience** w-e-f 18-4-2013 to date= 10 years 8 months and 1 day in the field of Higher Education at Abbottabad University of Science and Technology (Abbottabad UST) & Hazara University, Mansehra
- v. **HEC Recognized Publications (131)** including 125 International & 6 National having **impact factor 313.614**.
- vi. **HEC approved Research Supervisor** w-e-f March 26, 2012 to date.
- vii. Executed **Major Research Projects (9)** having cost of **Rs. 35.146** million as PI and Co-PI (National & International).
- viii. Completed **Six Research Projects including NRPU having cost of Rs. 4.378 million, ADP (Microbiology lab Development) having cost of Rs. 12.00 million and Four Projects having cost of Rs. 2.094 million.**
- ix. **Patents (4): 3 US & one Pakistan** (*Two complete Genome DNA sequence published, one product US patent in published and one patent in progress in Pakistan*).
- x. NRPU Project, product “**Xonthomonos Citri phage**” launched on 28-10-2023.

- xi. Participation in **international symposiums (2)** held at Japan & Dubai-UAE.
- xii. **Organized International level (9)** conferences/events/symposium/seminars/workshops as a Pattern & chief organizer.
- xiii. Member of **American Society for Microbiology (ASM)**.
- xiv. Member of **Pakistan Society for Microbiology (PSM)** and **Chairman PSM KP Chapter**.
- xv. Member of University Statutory Bodies/ Committee(s) such as **Senate, Syndicate, Finance and Planning**, Academic Council, Board of Faculty, Board of Studies, Selection Board, Selection and Promotion Committee, Purchase committee, DTRC, HEC institute Scholarship Award Committee, M & E Committee and COVID 19 Funds utilization Committee.
- xvi. **Development Projects (01) of Abbottabad UST** executed (dormant project for the last three years) being principal accounting officer (Acting Vice Chancellor). Administration Block was inaugurated by Governor KP/Chancellor Abbottabad University on 28-10-2023 while Science and Social Science Blocks by Chief Minister KP on 16-12-2023. The remaining units like Girls Hostel, Staff Residencies, Visiting Faculty Hostel, Boundary Wall are in progress and near to completion.
- xvii. Supervision of research Students till date (**50 M.Sc. theses/projects, 32 MPhil and 4 Doctoral Projects**). Whereas supervision of 10 MPhil and **5 Doctoral Projects** (in progress).
- xviii. **Accreditation of Academic Programs:** During my Tenure as Acting Vice chancellor the University managed to get NOC for BS, MPhil and PhD programs in 5 teaching departments.
- xix. **University Journal: Patron In Chief**
 - (a) *Abbottabad University Journal of Business and Management Sciences*. <http://aust.edu.pk/ojs/ojs2/index.php/files/about/editorialTeam> Launched 12th June, 2023. (Under Evaluation in HEC to be accredited in Category Y).
 - (b) *Journal: Orish Research Journal of Humanities and Social Sciences (ORJHSS)* <http://aust.edu.pk/ojsSocial/index.php/files>
- xx. **Operational Connections (linkages):**
 - i. These operational connections emphasize my dedication to fostering a vibrant environment that bridges the realms of academia, industry, and global educational institutions. This commitment ensures comprehensive growth and progress in the field of education and research
 - ii. International Academic Collaborations (06): We have established and actively maintain partnerships with 10 prestigious international universities, facilitating global academic exchanges, collaborative research ventures, and knowledge sharing.
 - iii. Local Academic Alliances (10): We are committed to nurturing productive relationships with 10 esteemed local universities, creating a strong network for sharing knowledge, collaborating on research initiatives, and fostering academic cooperation within our nation.
 - iv. Industry Partnerships (3): We have cultivated strategic partnerships with three prominent industries, enabling collaborations between academia and industry. These alliances support internships, research and development projects, and skill-building opportunities for our students.

xxi. Financial Resource Generation:

- i. Administratively through Strategic Plan Managed Rs. 33.596 million deficit Budget into 19.709 million surplus through revenue generation, cost cutting, investment of funds, conversion of accounts from current to savings and obtaining additional grant from HEC amounting to Rs. 20.00 million beside this paid accrued liabilities amounting to Rs. 30.00 million and returned borrowed amount of Rs. 20.00 million.
- ii. Increment in Recurring Budget (FY2020-21): The recurring budget witnessed a substantial 33% increase during the fiscal year 2020-21. This infusion of additional funds has significantly bolstered the financial stability of the university.
- iii. Augmented Developmental Grant: Beyond the initial allocation in the Public Sector Development Program (PSDP), the developmental grant experienced a remarkable 63% surge. This additional funding enables the execution of more extensive developmental projects and initiatives.
- iv. Business Incubation Center (BIC) Project: A noteworthy project to establish a Business Incubation Center (BIC) has received approval from the Higher Education Commission (HEC) with a capital cost of Rs. 38.5 million. A substantial sum of Rs. 13.5 million has already been disbursed in the fiscal year 2022-23 to initiate this significant endeavor.
- v. Expected Revenue from the Science and Technology Park (STP): Anticipated to yield substantial income this year, the Science and Technology Park (STP) is expected to generate revenue amounting to Rs. 5.000 million. This underscores the university's dedication to fostering innovation and technology-driven ventures.
- vi. External Research Funding: The university has secured significant research funding from external sponsors through projects such as the National Research Program for Universities (NRPU), amounting to an impressive Rs. 70 million. This financial support enhances the institution's research capabilities.
- vii. HEDP Grant Investment Returns: An investment of Rs. 51 million from the Higher Education Development Program (HEDP) has yielded substantial returns, generating revenue of Rs. 10.000 million. ***This exemplifies prudent financial management and investment decision-making.***
- viii. Bank Account Optimization: All university bank accounts have been converted into savings accounts, resulting in daily interest accrual. This strategic move is projected to create an additional revenue stream ***of Rs. 10.00 million, contributing to the institution's financial well-being.***
- ix. Approved project from PDWP in its 12th meeting held on 8th November 2023, having cost of 400.456 million titled "Provision of Land compensation Decretal cases sub-head Abbottabad University of Science & Technology.
- x. Solar PV Project for Cost Reduction: Leveraging the revenue generated from the HEDP fund, we have initiated a cost-saving project titled "Design, Supply, Installation and Commissioning of 50 KW Solar PV Plant at Abbottabad University of Science & Technology (Green Energy Project)" This project is anticipated to lead to annual savings of Rs. 6.00 million in electricity costs by

powering one academic and one administrative building through solar energy.

- xi. NRPU Project, product “**Xonthomonos Citri phage**” launched on 28-10-2023.
- xii. Established Business Incubation Centre at Abbottabad UST.
- xiii. Establishment of Institute of Space and Technology, first ever in Khyber Pakhtunkhwa.
- xiv. Establishment of Regional Office (KP Chapter) National Centre on Countering violent extremism, Pakistan at Abbottabad UST, inaugurated by Governor KP/Chancellor Abbottabad UST on 28-10-2023.
- xv. Sustainability of the universities across the country, suggestions endorsed by PWDP in its 12th meeting held on 8-11-2023.
 - (a) Distance learning Education
 - (b) Industrial based Research Projects
 - (c) Establishment of Diagnostics Labs
 - (d) Pharmaceutical Products
 - (e) Free launching programs of IT for Jobs and revenue generation
- xiv. Award 6 numbers of Research Projects to Faculty being a Vice Chancellor.
- xvi. Award 6 numbers of Research Projects to Faculty being a Vice Chancellor.
- xvii. Donation of Chinese camp building to Abbottabad University.
- xviii. Established of Institute of Space & Technology at Abbottabad UST.
- xix. The Syndicate of Abbottabad UST appreciated my efforts thrice in its 25th, 27th & 28th meeting.
- xx. Key Note Speaker in 1st UMT international Conference on Life Sciences at UMT Lahore on 13-14 December 2023
- xxi. Key Note Speaker in 14th International Biennial Conference on 22-24 November 2023 organized by Pakistan Society for Microbiology

DETAILED RESUME

QUALIFICATION:

Sr#	LEVEL	CERTIFICATE/ DEGREE	YEAR	NAME OF THE INSTITUTION
1	Matriculation	SSC	1988	GHS No. 2, Abbottabad
2	Intermediate	HSSC	1990	Edward College, Peshawar
3	Bachelors	BSc	1993	University of Peshawar
4	Masters	MSc	1996	University of Peshawar
5	MS/ M.Phil	MPhil	1999	Quaid-i-Azam University, Islamabad
6	Ph.D Microbiology	Thesis/Project Title (RNAi mediated resistance against Gemini Viruses)	2006	Quaid-i-Azam University, Islamabad
7	Post-Doctorate (USA)	Project Title Biological & Medical Sciences (Virology & Bacteriology)	2008- 2009	University of Arizona, United States of America (QS World Ranking 179)

EXPERIENCE (in Chronological Order):

Total Experience:

Teaching & Research including 4 years Ph.D experience = 21 years 2 months and 9 days)

Administrative Experience on different positions w-e-f 18-4-2013 to 25-9-2023 = 10 years 8 months and 1 day:

Teaching / Research					
S.No	Designation	Institution	From (dd. mm. yyyy)	To (dd. mm. yyyy)	Total Duration (years. months. days)
1	Professor (BPS-21) Department of Microbiology	Abbottabad University of Science & Technology	9-4-2019	till date 18-12-2023	4.8.10
2	Assistant Professor (BPS-19) Department of Microbiology	Abbottabad University of Science & Technology/ Hazara University	10-10-2006	8-4-2019	12.5.30
3	Ph.D	Quaid-i-Azam University, Islamabad	2001	2006	4.0.0
Administrative					
	Designation	Institution	From (dd. mm. yyyy)	To (dd. mm. yyyy)	Total Duration (years. months. days)
1	Acting Vice Chancellor	Abbottabad University of Science & Technology	March 6, 2023	till date 18-12-2023	0.9.13
2	Dean, Faculty of Health & Biomedical Sciences	Abbottabad University of Science & Technology	August 23, 2022	till date 18-12-2023	1.3.26
3	Pro-Vice Chancellor	Abbottabad University of Science & Technology	July 17, 2019	till date 18-12-2023	4.5.2
4	Chairman, Department of Microbiology,	Abbottabad University of Science and Technology	May 06, 2019	till date 18-12-2023	4.7.13
5	Acting Vice Chancellor	Abbottabad University of Science & Technology	July 26, 2019	June 15, 2020	0.10.21
6	Dean Faculty of Health and Biomedical Sciences,	Abbottabad University of Science & Technology	July 11, 2019	July 10, 2022	3.0.0
7	Director Administration	Abbottabad University of Science and Technology	October 18, 2018	April 9, 2019	0.5.23

8	Director QEC	Hazara University, Mansehra	June 13, 2013	May 30, 2014	0.11.18
9	Chief Proctor	Hazara University, Mansehra	March 27, 2014	June 01, 2015	1.2.6
10	Head of Department of Microbiology	Abbottabad University of Science and Technology	June 1, 2015	May 5, 2019	3.11.5
11	Head of Department of Microbiology	Department of Microbiology, Hazara University, Mansehra	April 18, 2013	May 30, 2015	2.1.13
12	Director Academics	Abbottabad University of Science and Technology	April 1, 2016	September, 19 2016	0.5.19
13	Provost (Acting)	Abbottabad University of Science and Technology	Sep 21, 2016	June 1, 2017	0.8.12
14	Registrar (Acting)	Abbottabad University of Science and Technology	April 4, 2018	April 5, 2018	0.0.2
15	Director ASRB	Abbottabad University of Science and Technology	March 9, 2018	July 1, 2019	1.3.23

HEC Approved Research Supervisor:

w-e-f March 29, 2012 to date

Research Impact Factor: 313.614

Number Of HEC Recognized Publications:

Publications		
International	National	Total
125	06	131

Execution of Major Research Project(s):

S. No	Title of Research Project	Executed as PI or Co-PI	Awarding Date	Completion Date	Awarding Organization	Worth of Project in Rs.
1	Use of Bacteriophage for controlling citrus canker disease caused by <i>Xanthomonas Oxonopodis</i> pv. <i>Citri</i>	PI	27-6-2019	21-9-2023 (Completed)	NRPU-HEC	4377676/-
2	Teaching Lab Equipment for Department of Microbiology	Head of Microbiology Department	1-6-2017	20-9-2023 (Completed)	ADP Scheme 2015-16 No.583/15 0041 Government of KP	12000000/-
3	Mycoremediation: A Treatment for heavy metals Pollution of Soil using indigenous metallotolerant fungi	Co-PI	10-2-2016	1-2-2018 (Completed)	SRGP-HEC	339240/-
4	Isolation and Characterization of Quorum quenching and Quorum sensing bacteria from soil samples	Co-PI	21-2-2016	1-2-2019 (Completed)	SRGP-HEC	454801/-
5	Isolation, identification and characterization of biological active bacteria from soil samples of Hazara region	Co-PI	2-12-2021	17-4-2023 (Completed)	AUST Funded	300000/-
6	Screening of indigenous	Co-PI	18-8-2021	21-9-2023 Complete	HEC (National)	1000000/-

	microbial strains for production of biotechnologically important enzymes			d	Academy of Higher Education)	
7	Age and sex associated variation of complement dependent serum bactericidal activity of local population against <i>Neisseria meningitidis</i>	Co-PI	9-2-2022	In progress	NRPU-HEC	10315800/-
8	Use of Bacteriophage for Controlling Rice Bacterial Blight Disease Caused by <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i> (Xoo)	Co-PI	28-4-2022	In progress	NRPU-HEC	6358000/-
9	The identification and characterization of the molecular basis of Neurogenetic disorders and Synaptopathies in Pakistan	Co-PI	14-10-2021	In progress	UCL Institute of Neurology Queen Square UK	Pakistan & UK collaborative Project

Patents:

1. Fahad A. Al-Abbasi, Salman B. Housawi, Mustafa A. Zeyadi, **Mujaddad UrRehman**, Amira M. Al-Ghamdi, Imran Kazmi, Govind Vyas. A gel composition of luliconazole for the treatment of vaginal fungal infections and its manufacturing process. US patent No. US 2023/0330068 A1 Pub. Date 19 Oct, 2023
2. **Mujaddad Ur Rehman**, Khan, M. I., Hayat, A., Khan, I., Rizwan, M., Rehman, S. U., Ullah, Z. and Alvi, I. A. Whole Genome Sequence of *Xanthomonas axonopodis* pv. *citri* Bacteriophage XAP3. (05-APR-2023) NCBI GenBank: [00756160](https://www.ncbi.nlm.nih.gov/nuclseq/00756160)

3. **Mujaddad Ur Rehman**, Alvi,I., Hayat,A. and Khan,I. *Xanthomonas citri* pectate lyase gene, partial cds. (16-OCT-2021) GenBank: [OK539664.1.](https://www.ncbi.nlm.nih.gov/nuccore/OK539664.1/)
<https://www.ncbi.nlm.nih.gov/nuccore/OK539664.1/>

Patents submitted:

4. Shameran J. Salih Hamed, **Mujaddad Ur Rehman**, Bibi Nazia Murtaza, Muhammad Siraj, Azam Hayat, Ibrar Khan. Green Synthesis of Antimicrobial Cobalt Ferrite Nanoparticles using *Apium Graveolens*. **Electronic Publication of Patents Journal under The Patents (Amendments) Act, 2016**

Participation in Workshops, Seminars or Conferences held outside the Country:

S.No	Title of workshop, seminar or conference	Organized By	Country Name	Date
1	5 th European Autism Congress (online)	Conference Series LLC Ltd UK	Paris/France	17-18 May 2023
2	2nd International Symposium "Frontier in Agriculture Proteome Research: Contribution Proteomics Technology in Agricultural Science.	Japan	Japan	2010
3	4th International Gemini Virus Symposium,	Dubai, UAE	Dubai, UAE	2004

Experience of Organizing Events such as Workshops, Seminars, Conference at an International Level within the Country in the Field of Higher Education:

S.No	Title of workshop, seminar or conference	Sponsored By	Role As	Date
1	3 rd International Conference on Neurogenic Disorders and Synaptopathies	HEC & AUST	Pattern	June 20-21, 2022
2	International Conference on Multidisciplinary Nano Research	HEC, Hazara University, PAF-IASST	Principal Organizer	August 2-4, 2021
3	DICE Mega Innovation and Entrepreneurship (DICE – AUST -2019),	DICE	Pattern In	October 11,

	More than 90 Universities Participated, 109 ideas were presented, 6 secured industrial funding.		Chief	2019
4	12 th International Biennial Conference of Microbiology Theme Next Generation of Microbial Therapeutics Venue Abbottabad University of Science & Technology, Havelian, Abbottabad, Pakistan.	HEC	Chief Organizer	February 22, 2019
5	1st National Conference Theme: Recent Trends In Microbiology Organizer Department of Microbiology, Abbottabad University of Science & Technology, Havelian, Abbottabad, Pakistan.	HEC	Chief Organizer	December 19-21, 2016
6	2nd National Conference Theme: Current Approaches in Microbiology Organizer Department of Microbiology, Hazara University, Mansehra, Pakistan in Nathia Galli, Abbottabad	Hazara University Mansehra	Chief Organizer	June 27-28, 2013
7	International Workshop on Neurogenic Disorders and Synaptopathies Speaker: Dr Henry Houlden	UCL Institute of Neurology Queen Square UK	Chief Organizer	April 28, 2018
8	Youth Engagement for Peace Building and Perception career: Management Through National Narrative of Paigham e Pakistan	HEC	Chief Organizer	November 4, 2019
9	One day symposium on World Malaria day	Abbottabad UST/DHO Atd/Ministry of Environment Islamabad	Pattern in Chief	April 25, 2023
10	One day Symposium on Anticorruption	Abbottabad UST/ NAB KP	Pattern in Chief	Dec 14, 2023
11	First National Conference on Economic Development of Hazara Division	Abbottabad UST/World Bank	Pattern in Chief	Oct 25, 2019

Memberships in the field of Microbiology:

- Member **American Society for Microbiology (ASM)**.
- Member **Pakistan Society for Microbiology (PSM)** and **Chairman PSM KP Chapter**.

Member of University Statutory Bodies/Committees:

Serving/served as member of following statutory bodies at Abbottabad UST.

- Senate
- Syndicate
- Finance and Planning
- Academic Council
- Board of Faculty
- Board of Studies
- Selection Board
- Selection and Promotion Committee
- Purchase committee
- DTRC
- HEC institute Scholarship Award Committee
- M & E Committee
- COVID 19 Funds utilization Committee

University Development Projects:

During my tenure as Acting Vice Chancellor, continue/started/completed the following projects successfully:

1. One Billion Project of HEC for Development (Up-Gradation) of Abbottabad UST.
2. Started work on Boundary Wall, Faculty Hostel, two Academic Blocks, Girls Hostel, Vice Chancellor House, Faculty Residence and Staff Residence at Abbottabad UST
3. Prepared feasibility report of Abbottabad UST for up-gradation of Havelian Campus, Hazara University
4. Strengthening of Havelian Campus of Hazara University funded by KP Government having amount of PKR 230 Million
5. Up-gradation of Hazara University Havelian Campus to a full fledged University funded by KP Government having amount of PKR 150 Million.
6. Purchase of Teaching and Research labs Equipment for Abbottabad UST funded by Federal Government through Provincial Government Foreign Exchange Program of worth PKR 120 Million.
7. Signed MoU with Pakistan Broadcasting Corporation (PBC) and as per MoU, AUST will host weekly programs on FM 101.4.
8. Launching of University Management System of AUST.
9. Memorandum of Understanding (National & International) signed =
10. Memorandum of Understanding with JS Bank Abbottabad.

11. Taking Over the Building of Chinese Camp (CPEC) from the Chinese Delegation at Abbottabad UST
12. Joined the session as Observer along with Chairman HEC in Golden Jubilee Celebrations of the Constitution of Pakistan on the theme My Constitution - Guarantee of my Freedom at National Assembly of Islamic Republic of Pakistan
13. ECO AUST under the umbrella of Prime Minister's Green Youth Movement (GYM) initiative (supervised by HEC)
14. Aspire Leader Program of HEC at Abbottabad University of Science and Technology (AUST)
15. Establishment of Microbiology Research Lab for MPhil and PhD students at AUST from NRPU project.
16. Up-gradation of Central Library of Abbottabad UST.
17. Construction of University monument.
18. Establishment of Business Incubation Centre (BIC).
19. Approved project from PDWP on **8-11-2023**, having cost of **400.456 million** titled "Provision of Land compensation Decretal cases sub-head Abbottabad University of Science & Technology.
20. Completed Green Energy Project (Solar Project) having cost of Rs. 10.14 million (HEC-HEDP Project)

Post Doctorate:

Post-Doctoral Research, "University of Arizona, United States of America" (QS World Ranking 179).

Teaching & Mentoring:

Teaching BS, M.Phil. and PhD level courses.

Undergraduate/Graduate Supervision:

- Supervised more than 50 M.Sc. theses/projects, 32 MPhil and 4 Doctoral Projects.
- Supervising thesis **10 MPhil** and **5 Doctoral Projects** (in progress).

Establishment of New departments at AUST

1. Established new departments and served as HOD including Microbiology, Zoology, Chemistry, Biochemistry, Psychology, MLT, Food Sciences & School of Nursing.

Current Fields of Interest

1. Diagnostic Methods for Potential Human, Plant and Animal Pathogens

2. New Antimicrobial and Immunomodulatory Agents
3. Molecular Microbiology, Immunology and Infectious Diseases
4. Animal Health, Food Safety, Biosafety, Biosecurity and Public Health

Courses/Taught

1. Clinical Microbiology, Parasitology, Mycology, Virology and Immunology
2. Immunoematology, Immunotoxicology, Molecular Immunology
3. Medical Microbiology and Microbial Pathogenesis, Molecular Action of Antimicrobial Agents, Hybridoma Technology, Biosafety and Biosecurity, Food Safety and Food Security, Food Microbiology, Epidemiology and Public Health
4. Gene & Gene Activity, Proteomics & Genomics, Genetic Engineering

Trainings (National)

2013: Vice Chancellor Forum, **Islamabad**.

2013: 2nd International Conference on “Current Approaches in Microbiology”, **Hazara University, Mansehra**

2009: 5th International Symposium on Bio Technology, **Karachi**

Research expertise in the following fields:

I worked as a Post Doc. research fellow (Virology and Bacteriology) in Life Sciences Department, University of Arizona (USA) in 2008-9. My Post Doc. research interests include the molecular characterization of a new pathogen/insect vector, psyllid-transmitted *Candidatus Liberibacter* (Family: Psyllidae), the basis for bacteria-vector specificity and the transmission pathway, and genetic variation between populations of the psyllid vector, psyllid that influence the molecular epidemiology and evolution of *Candidatus Liberibacter*.

Ia. Psyllid-Liberibacter: characterization of a new pathogen/insect vector

- i. Primer design / amplification / detection for *Liberibacter* genomic fragment of 16SrDNA in tomato / psyllid.
- ii. Cloning of amplified DNA into pGEM-T Easy vector.
- iii. DNA sequencing of cloned fragments.
- iv. BLAST analysis of DNA sequencing using NCBI website / GenBank
- v. Phylogenetic analysis of sequences using Clustal W.

I. b/c. Transmission and host range studies of *Liberibacter*-like bacteria in tomato/psyllid

II. Begomovirus host range study using biolistic inoculation.

III. Begomovirus-satDNA infectivity study-cotton.

IV. Rolling circle amplification of begomoviral genomes from Greece, Cyprus, and Egypt to explore the diversity of endemic and introduced viruses.

I received a Ph.D. degree in Microbiology from the Quaid i Azam University (Pakistan) in 2006. Ph.D. research interests include the RNAi mediated resistance against whitefly transmitted geminiviruses (Begomoviruses, Family: Geminiviridae) and worked as a research fellow in Biotechnology Department at NIBGE Faisalabad, Currently, here at the Abbottabad University of Science & Technology (Abbottabad), I teach Proteomics and Genomics, Virology and Microbial Diversity at graduate and postgraduate level.

2008- 2010: “Antivenom preparation of Scorpion”

Use of Scorpion Venom against Brain Tumor/Cancer”

Other Workshops / Seminars Organized / Events

1. Theme “Next generation of Microbial Therapeutics” Dated February, 19, 2019. Abbottabad University of Science & Technology, Havelian, Abbottabad, Pakistan.
2. Writing skills, Prof. Dr. Shahana Urooj, Dean, Faculty of Science, Prof. of Microbiology, University of Karachi, December 20, 2016
3. Phage therapy, Introduction and Methodologies, Lab session Hands On Training, Dr. Shafiq ur Rehman, Department of Microbiology and Molecular Genetics, University of Punjab, Lahore, December 20, 2016
4. Recent Trends In Bioinformatics, Data Mining retrieval and Analysis, Multiple sequence Alignment and Phylogenetics, Dr. Faisal Nouroz, Department of Bio-Informatics, Hazara University, Mansehra, December19, 2016
5. Phage therapy Dr. Iqbal Alvi, Department of Microbiology and Molecular Genetics, University of Punjab, December20, 2016
6. Molecular Forensics, Dr. Allah Rakha, Head, Department of Forensic Sciences, University of Health Sciences, Lahore, October 19, 2017
7. World Polio Day, Dr. Nabeel Liaqat, Polio Eradication Officer, World Health Organization, Abbottabad, October 24, 2017
8. Molecular Forensics, Dr. Muhammad Israr, Head, Department of Forensic Sciences, University of Swat, October 19, 2017
9. Dengue Awareness Seminar, Dr. Faisal Khanzada, District Health officer Abbottabad, August 28, 2017
10. 3-D-Technology, Dr Saeed Khan, Postdoctoral Fellow/Research Associate at State University of New York at Buffalo, February 03, 2017

S NO	Event name and Description	Date
01	Inter university bilingual declamation competition	14/3/23
02	AUST Art competition	17/3/23
03	Istaqbal-e-Ramadan conference	21/3/23
04	Launching ceremony of Young Peace & Development Corps	23/3/23

	(YPDC)	
05	Declamation contest and sketching competition in collaboration with District youth office	31/3/23
06	Ehsas scholarship	01/5/23
07	MOU with Pakistan Broadcasting Corporation- PBC	04/5/23
08	Youm-e-Takreem-e-shuhada	26/5/23
09	2 days training session on 'AUST On Air'	28/5/23
10	Secretary HED and Chinese delegate visited AUST	30/5/23
11	Seminar/ Briefing on how to Join Pakistan Navy	04/6/23
12	Entrepreneurial festa	15/6/23
13	Eco-AUST- 3 days event	15/6/23
14	Poster and video competition	10/7/23
15	Memorandum of understanding between conflict resolution scope, Islamabad, Pakistan.	10/8/23
16	YPDC and faculty members attended Policy Making competition (PMC) at University of Lahore	12/8/23
17	Independence Day celebration	14/8/23
18	Prime Minister Laptop Distribution	01/8/23
19	YPDC UOL Visited AUST for one day training on Entrepreneurship	21/8/23
20	Seminar on Chevening scholarship by representatives of British embassy and HEC.	22/8/23
21	A delegation from the Young Parliamentarian Forum (YPF) in collaboration with National Assembly of Pakistan visited AUST for launching YPF ambassadors.	24/8/23
22	Inauguration Ceremony of new Science Block	20/9/23
23	Poster Exhibition Competition	7/6/23
24	Benazir Undergraduate Scholarship Program	27/05/23
25	Foundation stone for the development affairs of the university	16/05/23S
26	Job Fair	3/8/23
27	Inauguration of Exclusive pick and drop stop for austians	4/4/23
28	Pakistan Day Celebration	23/3/23
29	Training on Tax Filing by FBR	20/9/23

30	A peaceful walk to condemn sacrilege against the Holy Quran	10/6/23
31	Announcement of Green Youth Movement (GYM) at AUST	09/06/23
32	HEC Need Based Scholarship announcement	05/06/23
33	Completion of Youth Development Center (YPDC)- A project of HEC worth 4.47 millions.	Ssp

Selected Publications (Impact Factor= 313.614)

1. Nasir Shah, S., Khan, I., Tul Muntaha, S., Hayat, A., **Mujaddad-ur Rehman**, SHAH, D. T. A., ... & Bourhia, M. Bioactive, Antioxidant and Antimicrobial Properties of chemically fingerprinted Essential Oils extracted from Eucalyptus globulus: In-vitro and In-silico investigations. *Frontiers in Chemistry*, 11, 1287317. (IF 5.5)
2. Habib, G., Gul, H., Ahmad, P., Hayat, A., **Mujaddad-ur Rehman**, Moussa, I. M., & Elansary, H. O. (2023). Teicoplanin associated gene tcaA inactivation increases persister cell formation in *Staphylococcus aureus*. *Frontiers in Microbiology*, 14. (IF 5.2)
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Published Abstract/Conference Presentation

1. **Mujaddad, R.**, Fida, M. A., Komatsu, S. and Brown, J. K. (2010). “New candidatus *luberibaacter psyllaurus* associated with bactericercoccarellae detection in solonchastic plants” Paper Presented in ^{1nd} [International Symposium “Frontier in Agriculture Proteome Research: Contribution of proteomics technology in agricultural sciences”](#). [Abstract: 44](#).
2. Saifullah, K., **Mujaddad Rehman.**, Umair, A., Farnaz, M. and Shahid, A. (2009). Antivenom Preparation from Scorpion Hemolysate Xanthopus Abstracts. [5th International Symposium on Biotechnology Karachi](#), 67.
3. Abdel-Salam, A.M., **Rehman, M.M.**, Brown, J.K., and Idris, A.M. 2012. Genetic diversity, natural hosts range, and basis for molecular pathogenesis of begomovirus-satellite DNA complexes in Egypt. Epidemiology and management of whitefly-transmitted viruses- Cross-industry workshop, 15-17 Oct. 2012, Brisbane, Australia.

Journal Position

1. **Patron In Chief.** *Abbottabad University Journal of Business and Management Sciences.*
<http://aust.edu.pk/ojs/ojs2/index.php/files/about/editorialTeam> **Launched 12th June, 2023. (Under Evaluation in HEC to be accredited in Category Y).**
2. *Orish Research Journal of Humanities and Social Sciences (ORJHSS)*
<http://aust.edu.pk/ojsSocial/index.php/files>

Students' Supervision MPhil

S.No	Name of Scholar	Title	Semester
1	Khola Zia	Isolation identification and characterization of <i>Xanthomonas Axonopodis</i> .Pv. Citrus Fruits	Fall 2021
2	Urooba Naveed	Isolation identification and characterization of phages effective against citrus canker caused by <i>Xanthomonas Axonopodis</i> . Citri.	Fall 2021
3	Shahzeb Javed	Determination of different multiplicity of infection and their impact on invitro phage therapy	Fall 2021
4	Faizan Ahmed	Analysis of storage stabilization and growth characteristic of bacteriophage against "Xanthomonas Citri".	Fall 2021
5	Mahnoor Shahid	Biochemical characterization of olive tree (<i>Olea Europaea</i>) with Antimicrobial and Antioxidant potential for drug discovery	Fall 2021
6	Muhammad Tayyab (Co)	Molecular detection of Mycobacterium Tuberculosis in suspected TB patients of district Swabi	Spring 2021
7	Muhammad Younis (Co)	Molecular detection of Mycobacterium Tuberculosis in suspected TB patients of district Nowshera	Spring 2021
8	Muhammad Mehtab (Co)	Molecular detection of rifampicin resistant Mycobacterium Tuberculosis at district Abbottabad.	Spring 2021
9	Falak Naz (Co)	Phenotypic and genetic characterization of tazobactam resistant citrobacter fruendii from clinical isolates	Spring 2021
10	Qurat ul Ain	Identification and genetic characterization of methicillin resistant <i>staphylococcus aureus</i> from	Spring 2021

		viral coinfecting patient.	
11	Hajira	Identification and functional characterization of <i>klebsiella pneumoniae</i> from COVID-19 patients	Spring 2021
12	Musanna (Co)	Identification and molecular characterization of <i>Salmonella</i> persister cells involved in biofilm resuscitation	Spring 2021
13	Zahid Badshah (Phd)	Molecular characterization of antibiotic resistant and Toxin Gene in uropathogenic Bacteria isolated from hemodialysis patients in tertiary care hospitals of Peshawar kpk.	Fall 2019
14	Muhammad Irfan Khan (Phd)	Biological control of <i>Xanthomonas citri</i> - The causative agent of citrus and Tomato canker using bacteriophage.	Fall 2019
15	Assad Ullah Khan (Phd)	Isolation, Characterization and metabolic profiling of Dye degrading Bacteria	Fall 2019
16	Obaid Ullah Khan (Phd)	Isolation, Characterization and whole genome sequence Analysis of potential Bacteriophages to be used in phage therapy against MDR <i>Staphylococcus Aureus</i>	Fall 2019
17	Najeeb Ullah (Phd)	Production, purification and Characterization of alkaline protease from bacillus Sp. Using tannery waste as a substrate.	Fall 2019
18	Abdul Majeed (Co PhD)	Molecular characterization of Novel drugs site for MDR and XDR tuberculosis in KP province of Pakistan.	Fall 2019
19	Saifullah Khan (Co PhD)	Assessment of possible Human papilloma virus association in colorectal cancer	Fall 2019
20	Khifsa Khan	Study of pathogen causing postoperative infections among patients visiting Tertiary Care Hospital of Rawalpindi.	Fall 2019
21	Aneeqa Iqbal	Screening of salt Tolerant Rhizobacteria from Canola (<i>Brassica napus</i>)	Fall 2018
22	Ayesha Zaman	Isolation of Rhizobacteria from mung bean having bio control potential against charcoal rot disease	Fall 2018
23	Karishma Noor	Utilization of Earthworm Gut Microphora Enriched compost and vermicompost to Enhance the growth of soybean	Fall 2018
24	Khawaj	Identification and molecular characterization of	Fall 2018

	Muhammad	common scab disease of potato found in district Mansehra, KPK, Pakistan and development of robust management strategies for its control	
25	M. Niaz	Molecular, antibacterial and phytochemical characterization of <i>Rumex nepalenses</i> and <i>urtica dioica</i>	Fall 2018
26	M. Nouman	Phytochemical Analysis and antibacterial potential of Artemisia species against selected human pathogenic bacteria.	Fall 2018
27	Rabia Zardad	Molecular Detection of Hepatitis B & Hepatitis C Viral infection in District Abbottabad	Spring 2017
28	Rahimullah	Medical potential of Alkanna Tinctoria & Cichorium Intybus plants against multi Drug resistant human bacterial pathogens.	Spring 2017
29	Afzal Ahmed	Anticancer activity of Heterometrus Xanthopus Against Brain Tumor.	Spring 2017
30	Batool	Characterization of phosphate solubilizing bacteria from grasses Rhizosphere of rock phosphate of Abbottabad region	Spring 2017
31	Sulaiman Bahadar (Co)	Molecular Detection Mycobacterium in suspected TB patients of District Swabi & Nowshera.	Spring 2017
32	Rizwana Kausar	Antibacterial activity of medically important extracts of sochus asper; an Alternative to synthetic antibiotic.	Spring 2017

Students' Supervision PhD (Completed)

S.No	Name of Scholar	Title	Completion Date
1	Bibi Asma	Assessment of decolorization and detoxification of some reactive dyes by isolates of different sources.	13-6-2023
2	BIBI UZMA	Isolation and characterization of bacteria capable of degrading synthetic pyrethroids from soil.	13-6-2023
3	Mr. Asad ullah	Isolation, characterization, and Metabolic Profiling of Dye Degrading Bacteria)	11-11-2022
4	Mr Wajid Ali shah	BACTERIAL AUGMENTED FLOATING TREATMENT WETLANDS FOR THE REMOVAL OF FLUOROQUINOLONE (CIPROFLOXACIN) FROM WATER	29-5-2023

References

International References

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