**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**



**Office Address:**

**Office of the Dean**

**Faculty of Health and Bio-Medical Sciences**

**Abbottabad University of Science and Technology**

**Captain Akaash Rabbani Shaheed Road, Havelian**

**Khyber Pakhtunkhwa, Pakistan**

**Cell #(+92)(331)1166115 Office#(+92)-(992)-812027**

**mujaddad@aust.edu.pk**

# **Executive Summary**

1. **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).
2. **PhD in Microbiology** from Quaid-i-Azam University Islamabad (Ranked 315 QS World Ranking and 98 Asia universities ranking).
3. **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., Quiad-i-Azam University Islamabad, Abbottabad University of Science and Technology (Abbottabad UST), Hazara University, Mansehra and NIBGE Faisalabad.
4. **Administrative Experience** w-e-f 18-4-2013 to date= 10 years 8 months and 1 dayin the field of Higher Education at Abbottabad University of Science and Technology (Abbottabad UST) & Hazara University, Mansehra
5. **HEC Recognized Publications (131)** including 125 International & 6 National having **impact factor 313.614.**
6. **HEC approved Research Supervisor** w-e-f March 26, 2012 to date.
7. Executed **Major Research Projects (9)** having cost of **Rs. 35.146** million as PI and Co-PI (National & International).
8. 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.**
9. **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*).
10. NRPU Project, product **“Xonthomonos Citri phage”** launched on 28-10-2023.
11. Participation in **international symposiums (2)** held at Japan & Dubai-UAE.
12. **Organized International level (9)** conferences/events/symposium/seminars/ workshops as a Pattern & chief organizer.
13. Member of **American Society for Microbiology (ASM).**
14. Member of **Pakistan Society for Microbiology (PSM)** and **Chairman PSM KP Chapter.**
15. 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.
16. **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.
17. 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).
18. **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.
19. **University Journal:** **Patron In Chief**
20. *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).
21. ***Journal:*** *Orish Research Journal of Humanities and Social Sciences (ORJHSS)* <http://aust.edu.pk/ojsSocial/index.php/files>
22. **Operational Connections (linkages):**
23. 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
24. 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.
25. 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.
26. 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.
27. **Financial Resource Generation:**
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.***
35. 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.***
36. 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.
37. 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.***
38. NRPU Project, product **“Xonthomonos Citri phage”** launched on 28-10-2023.
39. Established Business Incubation Centre at Abbottabad UST.
40. Establishment of Institute of Space and Technology, first ever in Khyber Pakhtunkhwa.
41. 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.
42. Sustainability of the universities across the country, suggestions endorsed by PWDP in its 12th meeting held on 8-11-2023.
43. Distance learning Education
44. Industrial based Research Projects
45. Establishment of Diagnostics Labs
46. Pharmaceutical Products
47. Free launching programs of IT for Jobs and revenue generation

xiv. Award 6 numbers of Research Projects to Faculty being a Vice Chancellor.

1. Award 6 numbers of Research Projects to Faculty being a Vice Chancellor.
2. Donation of Chines camp building to Abbottabad University.
3. Established of Institute of Space & Technology at Abbottabad UST.
4. The Syndicate of Abbottabad UST appreciated my efforts thrice in its 25th, 27th & 28th meeting.
5. Key Note Speaker in 1st UMT international Conference on Life Sciences at UMT Lahore on 13-14 December 2023
6. 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.DMicrobiology  | **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 date18-12-2023 | 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 date18-12-2023 | 0.9.13 |
| 2 | Dean, Faculty of Health & Biomedical Sciences | Abbottabad University of Science & Technology | August 23, 2022  | till date18-12-2023 | 1.3.26 |
| 3 | Pro-Vice Chancellor | Abbottabad University of Science & Technology | July 17, 2019 | till date18-12-2023 | 4.5.2 |
| 4 | Chairman, Department of Microbiology, | Abbottabad University of Science and Technology  | May 06, 2019  | till date18-12-2023 | 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 Xonthomonos Oxonopodis pv. Citri  | 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.583/150041 Government of KP | 12000000/- |
| 3 | Mycoremediation: A Treatment for heavy metals Polution of Soil using indigenous metallotolerant furngi | 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 microbial strains for production of biotechnologicaly important enzymes | Co-PI | 18-8-2021 | 21-9-2023Completed | HEC (National Academy of Higher Education) | 1000000/- |
| 7 | Age and sex associated variation of complement dependent serum bactericidal activity of local population against Neisseria meningitides | Co-PI | 9-2-2022 | In progress | NRPU-HEC | 10315800/- |
| 8 | Use of Bacteriophage for Controlling Rice Bacterial Blight Disease Caused by Xanthomonas oryzae pv. Oryzae (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: *OQ756160*
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:**

1. Shameran J. Salih Hammed, **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 | 5th 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 | 3rd 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-IAST | Principal Organizer | August 2-4, 2021 |
| 3 | DICE Mega Innovation and Entrepreneurship (DICE – AUST -2019), More than 90 Universities Participated, 109 ideas were presented, 6 secured industrial funding. | DICE | Pattern ln Chief | October 11, 2019 |
| 4 | 12th 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 fledge 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. Immunohematology, 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: 2*nd* International Conference on “Current Approaches in Microbiology”, **Hazara University, Mansehra**

 2009: 5*th* 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.

1. - 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 (YPDC)  | 23/3/23 |
| 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 | Secretory 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)
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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 bactericeracoccarellae detection in solonacious plants” Paper Presented in [[1]](#footnote-1)*nd* 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). Antivenum Preparation from Scorpion Hetrometry 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 pathogenensis 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**](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**](http://aust.edu.pk/ojsSocial/index.php/files)

**Students’ Supervision MPhil**

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| **S.No** | **Name of Scholar** | **Title** | **Semester** |
| 1 | Khola Zia | Isolation identification and characterization of *Xanthomonas Axonopodis*.Pv. Citrus Fruits  | Fall 2021 |
| 2 | Urooba Naveed | Isolation identification and characterization of phages effective against citrus canker caused by *Xanthomonas Axonopodis*. 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 (Olea Europaea) 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 *staphylococcus aureus* from viral coinfected patient.  | Spring 2021 |
| 11 | Hajira  | Identification and functional characterization of *klebsiella pneumoniae* from COVID-19 patients | Spring 2021 |
| 12 | Musanna (Co) | Identification and molecular characterization of *Salmonella* 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 *Xanthomonas* citri- 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 *Staphylococcus Aureus*  | 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 (*Brassica napus*) | 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 Muhammad | Identification and molecular characterization of common scab disease of potato found in district Mansehra, KPK, Pakistan and development of rebust management strategies for its control  | Fall 2018 |
| 25 | M. Niaz | Molecular, antibacterial and phytochemical characterization of *Rumex nepalenses* and *urtica dioca* | 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 |

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**International References**

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 **National References**

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1. [↑](#footnote-ref-1)