



## MUHAMMAD RIZWAN

**OBJECTIVE:** To work in an organization where I can get an opportunity to practice what I have learnt and to learn more through experience.

### PERSONAL DETAIL:

Name	MUHAMMAD RIZWAN
Father's Name	MUHAMMAD NAEEM
Date of Birth	03-02-1987
Domicile	Mardan
Religion	Islam
Gender	Male
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### ACADEMIC HISTORY:

DEGREE/ CERTIFICATE	UNIVERSITY/ INSTITUTION	PASSING YEAR	%AGE/ C.G.P.A	DIV/ GRADE	PRINCIPAL SUBJECT (S) TAKEN
PhD (Biotechnology)	University of Peshawar	2016	3.8	1 <sup>ST</sup>	Microbial Biotechnology
M. Phil Biotechnology	University of Peshawar	2012	4.0	1 <sup>ST</sup>	Microbial Biotechnology
BS (Hons) Biotechnology	University of Peshawar	2010	75.22%	1 <sup>st</sup>	Biotechnology, Microbiology, Molecular biology
F.Sc (Pre-Medical)	B.I.S.E Mardan	2005	77%	1 <sup>ST</sup>	Biology, Chemistry, Physics.
Metric (Sciences)	B.I.S.E Mardan	2003	72.70%	1 <sup>ST</sup>	Biology, Chemistry, Mathematics & Physics.

## **RESEARCH PROJECTS**

### **PhD Thesis:**

Isolation, Optimization and Characterization of Secondary Metabolites from Soil Borne Fungi *Scirelotium* and *Aspergillus* Species

### **MPhil Thesis**

Prevalence and resistance profiling of streptococcus pyogenes in three major districts of Khyber Pakhtunkhwa

## **EXPERIENCE:**

1. Working as Assistant Professor and Lecturer in Department of Microbiology and Biotechnology Abasyn University Peshawar since 8<sup>th</sup> May 2012 9<sup>th</sup> June 2019.

### **MPhil Students Supervised**

1. **Khushbakht Mehreen:** *In vitro* susceptibility of FMDV serotype A virus to physical factors
2. **Anosh Abid:** Comparative study on *in vitro* replacement of serum in media for baby hamster kidney (BHK21) cell line and its effect over the propagation of Foot Mouth disease virus serotype A
3. **Hakeem zada:** Correlation between Hepatitis C virus sub types and Rheumatoid factors
4. **Sidra Farooq:** Optimization of different growth parameters for maximum production of bioactive crude metabolites by *Aspergillus Fumigatus*
5. **Alamgir khan:** Phytochemical and Biological screening of *Berberis aristata*
6. **Noorullah:** *In vitro* screening of *Sorberia Tomentosa* for phytochemical, Antimicrobial, Insecticidal and Phytotoxic assays
7. **Sawaira Gul:** Phytochemical, Biological and synergistic/antagonistic evaluation of *Cotoneaster Nummularia*
8. **Sana Farheen:** Bio extraction of antimony from its ores through bacteria
9. **Iqbal Muhammad:** Prevalence and antibiotic resistance profiling of blood borne bacterial pathogens collected from tertiary care hospitals in Peshawar
10. **Mushtaq Hussain:** Synthesis And Characterization Of Aqueous Mediated Silver Nanoparticles Of *Syzygium Cumini* And Its Antimicrobial Potential Against Poultry Pathogens

11. **Said Amin:** Synthesis, Characterization and antimicrobial screening of nanoparticles of aqueous extract of *Boerhavia procumbens*: Synthesis, characterization and Antimicrobial screening.
12. **Aurangzeb:** Carbapenem resistant *enterobacteriaceae*, *Pseudomonas aeruginosa* and *Acinetobacter baumannii* in Tertiary care Hospitals Peshawar KPK
13. **Maria Karim:** Phenotypic Screenings of AmpC and MBL Mediated Resistance in *Proteus mirabilis* & *Proteus vulgaris*, An Emerging Threat to Clinical Therapeutics
14. **Zia Ul Islam:** Isolation and identification of different microorganism from *S. Lycopersicum* and their management with phytobiocides and fungicides
15. **Abbas Ali:** Determination Of Seroprevalance Of Brucellosis In Slaughter House Workers At District Peshawar
16. **Siraj Ahmad:** Serological and Molecular detection of Brucellosis in Cattle and High Risk Human Population and its Control strategies in District Swabi Khyber Pakhtunkhawa, Pakistan.
17. **Muhammad Ayaz:** A study on microbial contamination of milk samples purchased from different sources in the Khyber Pakhtunkhwa province of Pakistan.

#### **PUBLISHED RESEARCH PAPERS**

1. **Muhammad Rizwan**, Jehan Bakht, Nafees Bacha and Bashir Ahmad, *In vitro* activity of antimicrobial agents against *Streptococcus pyogenes* isolated from different regions of Khyber Pakhtunkhwa, Pakistan. Pak, J, Pharma, Sci. vol 29. 59-64.
2. Muhammad, Nafees Bacha, **Muhammad Rizwan**, Muhammad Irshad, Anwar saeed, Fazal u samad, Alamzeb Khan and Tauseef Ahmad. Code of Awareness about HIV/AIDS European academic research journal, Jan 2014,1, 3404-3417.
3. Muhammad, **Muhammad Rizwan**, Shafqat ullah and Nafees Bacha Screening of Fresh, Boiled, and Pasteurized Milk for Aflatoxin M1 Contamination and antibiotic Residue in Pakistan. World journal of dairy and food sciences, 2014, 9, 51-56.
4. Noreen Akhtar, Muhammad Bilal, **Muhammad Rizwan\***, Muhammad Asif Khan, Aurangzeb Khan. Genotypes of Hepatitis C Virus in Relapsed and Non-respondent Patients and their Response to Anti-Viral Therapy in District Mardan, Khyber Pakhtunkhwa, Pakistan. Asian Pacific journal of Cancer prevention, 2015,16, 1037-1040.

5. Shoaib ahmad, **Muhammad Rizwan**, Muhammad Bilal, Shabeer ahmad, Syed zawar shah. Staphylococcus aureus identification through phenotypic test. Pakistan journal of medical science
6. Amin Ullah, Said Hassan, Muhammad Imran Khan, **Muhammad Rizwan**, Zafar Ullah, Mukaram Shah. Antioxidant, phytotoxic and cytotoxic activity of methanolic extract of *Trigonella foenum-graecum*, Journal of Coastal Life Medicine, 2015, 4(5): 930-933.
7. Bashir Ahmad, **Muhammad Rizwan**, Abdur Rauf\*, Muslim Raza, Sadiq Azam, Shumaila Bashir, Joseph Molnar, Akos Csonka, Diana Szabo. Isolation and Structure Elucidation, Molecular Docking Studies of Screlotiumol from Soil Borne Fungi Screlotium rolfsiian and their Reversal of Multidrug Resistance in Mouse Lymphoma Cells. Asian Pac J Cancer Prev, 17 (4), 2083-2087.
8. Fawad Karim, Abu Nasar, Ibrar Alam, Iftikhar Alam\*, Said Hassan, Rahmat Gul, Sana Ullah, **Muhammad Rizwan**. Incidence of Active HCV infection amongst Blood Donors of Mardan District, Pakistan. Asian Pac J Cancer Prev, 17 (1), 235-238.
9. Ahsan Khan\*, Nazish Shah, Anum Gul, Najmu-Us-Sahar, Afshan Ismail, Muhammad, Fawad Aziz, Muhammad Farooq, Muhammad Adnan, **Muhammad Rizwan**, Comparative Study of Toxicological Impinge of Glyphosate and Atrazine (Herbicide) on Stress Biomarkers; Blood Biochemical and Hematological Parameters of the Freshwater Common Carp (*Cyprinus carpio*), Pol. J. Environ. Stud. 25, 5 (2016), 1995-2001.
10. Ahsan Khan\*, Ali Muhammad Yousafzai, Nazish Shah, Muhammad, Munawar Saleem Ahmad, Muhammad Farooq, Fawad Aziz, Muhammad Adnan, **Muhammad Rizwan**, Shahibzada Muhammad Jawad, Pol. J. Environ. Stud. Vol. 25, No. 5 (2016), 2003-2008.
11. Syed Zawar Shah, Muhammad Saad, Mohammad Hasan Rahman Khattak, **Muhammad Rizwan**, Asma Haidari\*, Fatima Idrees\*\*. "Why we could not eradicate polio from pakistan and How can we? J Ayub Med Coll Abbottabad 2016; 28(2). 423-5.
12. Amin Ullah, Said Hassan, Muhammad Imran Khan, **Muhammad Rizwan**, Zafar Ullah, Mukaram Shah, Antioxidant, phytotoxic and cytotoxic activity of methanolic extract of *Trigonella foenum-graecum*. Journal of Coastal Life Medicine 2016; 4(5): 930-933.
13. Bashir Ahmad, **Muhammad Rizwan\***, Sadiq Azam, Abdur Rauf, Shumaila Bashir. Toxicity, analgesic and sedative potential of crude extract of soil-borne phytopathogenic fungi *Aspergillus flavus*. Advancements in Life Sciences, 2016, 4 (1), 14-19.

14. Bashir Ahmad, **Muhammad Rizwan**, Abdur Rauf, Sadiq azam, Carbonic Anhydrase and Urease Inhibition Potential of Soil Borne Fungi *scirelotium rolfsii* and *Aspergillus flavus*. Journal of the Chemical Society of Pakistan. J.Chem.Soc.Pak., Vol. 39, No. 02, 2017
15. Sajad Khan, Muhammad, Abdur Rauf\*, Ahsan Khan, **Muhammad Rizwan**, Seema Patel, Haroon Khan, Adel M. Mahasneh and Mohammad S. Mubarak, Infectious Disorders - Drug Targets, 2017, 17, 000-000
16. **Muhammad Rizwan**, Alamgir Khan, Hira Nasir, Aslam Javed, Syed Zawar Shah\* **Phytochemical and biological screening of *Berberis aristata***. Advancements in Life Sciences, 2017 , 5, 1-7.
17. Muhammad Nazir Uddin, Muhammad\*, Muhammad Farooq, Muhammad Waqas, NajeebUllah Khan, Waqas Ali Khan, Imran Khan, Nasiara Karim and **Muhammad Rizwan**, **Antibiotic assays of Salmonella isolated from poultry chicken of various locations in districts Swat. Pure Appl. Biol.**
18. Muhammad Imran, Abdur Rauf\*, Tareq Abu-Izneid, Muhammad Nadeem, Mohammad Ali Shariati, Intiaz Ali Khan, Ali Imran, Ilkay Erdogan Orhan, Muhammad Rizwan, Muhammad Atif, Tanweer Aslam Gondal, Mohammad S.Mubarak, **Luteolin, a flavonoid, as an anticancer agent: A review**. Biomedicine & Pharmacotherapy, 112 (2019), 10612
19. Bashir Ahmad, Muhammad Rizwan, Abdur Rauf, Muslim Raza, Shumaila Bashir, Joseph Molnár, Ákos Csonka, Diána Szabó, Mohammad S. Mubarak, Mah Noor and Bina S. Siddiqui, **Isolation of Chlorogenic Acid from Soil Borne Fungi Scirelotium rolfsii, their Reversal of Multidrug Resistance and anti-proliferative in Mouse Lymphoma Cells**, Medicinal Chemistry, 2017, 13, 1-6.
20. Syed Zawar Shah, Muhammad Saad, Mohammad Hasan Rahman Khattak, Muhammad Rizwan, Asma Haidari, Fatima Idrees. **Why We Could Not Eradicate Polio from Pakistan And How Can We**. J Ayub Med Coll Abbottabad 2016;28(2):423–5.
21. Sajad Khan, Muhammad Nazir Uddin, Muhammad Rizwan, Wajid Khan, Muhammad Farooq, Abdul Sattar Shah, Fazli Subhan, Fawad Aziz, Khaliq Ur Rahman, Ahsan Khan, Shahid Ali, Muhammad\*. **Mechanism of Insecticide Resistance in Insects/Pests**. Pol. J. Environ. Stud. Vol. 29, No. 2 (2020), 1-8

## **PROFESSIONAL EDUCATION:**

1. Bachelor of Education (B.Ed.)
2. Master of Education (M.ed)

## **CONFERENCE AND SEMINAR ATTENDED**

- Mega Science Fair, organized by Directorate of Science and Technology (DOST) (2009)
- Mega Science Exhibition, organized by University of Peshawar & obtained 1st Position (2010)
- 2<sup>nd</sup> National conference on Biotechnology and Microbiology, UOP (2012)
- 4<sup>th</sup> one day workshop on Bioinformatics in Muhammad Ali Jinnah University (2013)
- One day seminar on Zoonotic arranged by Relief international (2013)
- Training course on Diagnostic of Viral Disease arranged by NIAB, Faisal Abad (17-19 Dec, 2013)
- ‘Biosafety Training in KPK with a skilled based approach’ arranged by American society of Microbiology (2016)
- One day Biosafety and Biosecurity training workshop for young researcher arranged by NAYS (2016)
- Participated as a trainer in 1<sup>st</sup> practical training course on microbiological techniques held on July 19, 2016 –Aug 18, 2016
- Speaker in two days hands on workshop on Biosafety and Research ethics organized by Abasyn University Peshawar
- One day Hands on workshop on Biosafety cabinet organized by Pakistan Biological safety association

## **COMPUTER SKILLS:**

- Installation, configuration and operation of Microsoft Windows
- Operation of different type of computer applications like MS Office, Internet etc.

### **LANGUAGES:**

- English
- Urdu

- Pashto