

CURRICULUM VITÆ



- 1. Name: **DR. MUHAMMAD TARIQ ZAHID**
- 2. Current Position: **Assistant Professor of Zoology**
- 3. Present Address: Department of Zoology, Government College University Lahore, Pakistan
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- 5. Contact No. +92-3117011357
- 6. Date of Birth: 19-11-1979
- 8. Gender: Male
- 9. Marital status: Married

10. Teaching Experience: more than 12 years

Designation	University	Duration	
		From	To
Assistant Professor of Zoology https://gcu.edu.pk/zoology.php?pg=faculty	Government College University Lahore, Pakistan	27/02/2016	To-date
Lecturer in Zoology	Government College University Lahore, Pakistan	20/01/2011	27/02/2016

11. Teaching and Research Interests:

- Medium of Teaching/Instructions:** English
- Teaching:** Biochemistry, Molecular Biology, and Animal Diversity to BS and MS students
- Research Interests:** Bioremediation of industrial effluents using bacterial enzymes, DNA barcoding of ciliates and simple invertebrates, and use of simple organisms as single-cell proteins.

12. Academic Qualification:

Certificate / Degree	Subjects	Board / University	Year of Passing
Graduation (14 Years)	Zoology, Botany, Chemistry	University of the Punjab	2001
Masters (16 years)	Zoology	University of Azad Jammu and Kashmir, Muzaffarabad	2007
MPhil/MS	Zoology	GC University Lahore	2010
PhD	Zoology	GC University Lahore	2015

Degree	Dissertation Topic
MSc (16 year Education)	Antibiotic susceptibility testing of clinical isolates of <i>Staphylococcus</i>
MS/MPhil (18 year Education)	Molecular characterization of cry11 gene from local isolate of <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i>
Ph.D.	Molecular characterization of metal resistant gene(s) of ciliates from local industrial wastewater

13. Research Supervision (MS/MPhil):

Sr. No.	Name of the Student	Thesis Title	Completion Date
1.	Ammara Younas	Characterization of laccase producing bacteria and their role in bioremediation of textile effluents	2021
2.	Nadia Islam	Characterization of gut bacteria of <i>Androctonus finitimus</i> and <i>Hottentota tamulus</i> scorpions	2020
3.	Faheem Ullah	Characterization of azo reductase gene from <i>Acinetobacter baumannii</i> involved in degradation of industrial effluents	2020
4.	Rida Fatima	Role of porin in resistace against imipenem in <i>Acinetobacter baumannii</i>	2019
5.	Romasa Sajid	Prevalence and control of free-living amoeba in drinking water distribution system of Lahore	2019
6.	Muzdalfa Waheed	Susceptibility of free-living amoeba isolated from freshwater resources against different disinfectants	2018
7.	Ayesha Razzaq	Detection of opportunists free living amoeba from drinking water resources of Lahore	2018
8.	Romessa Shakeel	Characterization of lysine decarboxylase from locally isolated <i>Klebsiella pneumoniae</i>	2018
9.	Atiqa Ikhlq	Characterization and identification of ciliates from Jallo lake Lahore	2018
10.	Muzammil Akram	Cytotoxicity and bioaccumulation of heavy metals in local freshwater ciliates	2017
11.	Rizwan Ullah Khan	Characterization of toxin of <i>Tetraponera</i> sp. collected from district Bhimber Azad Kashmir	2016
12.	Ume Fizza Batool	Characterization and phylogenetic analysis of <i>Tetraponera</i> species collected from	2016

		district Bhimber Azad Kashmir	
13.	Amber Chhayan	Characterization of free living amoeba (FLA) from freshwater resources	2016
14.	Amna Farid	characterization of acidophilic fungi and their possible role in cellulase activity	2014

14. Research Supervision (Ph.D.):

Sr. No.	Name of the Student	Thesis Title	Completion Date
1.	Saadia Tobassum (As Co-supervisor)	Anti-proliferative and apoptogenic potential of scorpion venom	2019
2.	Ghulam Mustafa	Molecular characterization of bacterial genes involved in bioremediation of textile effluents	2023
3.	Sidra Ihsan	Role of bacterial laccases in bioremediation of textile dye in industrial wastewater of Lahore division	On-going
4.	Rabia Batool	Molecular characterization of Eimeria species in broiler chicken and captive birds	On-going
5.	Khajid Ullah Khan	Antiproliferative and apoptogenic potential of peptides and proteins of scorpion venom	On-going

15. List of Publications:

Sr. No.	Title of Research Paper	Name of Journal with ISSN, Category / Impact Factor	Volume, Page No. & Year
1.	Integrated phycoremediation and ultrasonic-irradiation treatment (iPUT) for the enhanced removal of pharmaceutical contaminants in wastewater. Kurade, M. B., Mustafa, G., Zahid, M. T. , Awasthi, M. K., Chakankar, M., Pollmann, K., ... & Jeon, B. H.	<i>Chemical Engineering Journal</i> ,	455 :140884. 2023
2.	Biodegradation and Decolorization of Textile Azo Dyes by Paramecium caudatum Isolated from Industrial Wastewater	<i>Water (Switzerland)</i>	14(21) : 3553
3.	Biodegradation and discoloration of disperse blue-284 textile dye by <i>Klebsiella pneumoniae</i> GM-04 bacterial isolate.	<i>Journal of King Saud University-Science</i> ,	33 :101442. 2021
4.	Modulating the production of xylanase by <i>Bacillus pumilus</i> BS131 through optimization using waste fiber sludge.	<i>Brazilian Journal of Biology</i>	83 2021
5.	Characterization of Venom Components of Two Medically Important Scorpion Species, <i>Hottentota tamulus</i> (Fabricius, 1798) and <i>Androctonus finitimus</i> (Pocock, 1897).	<i>Journal of the Kansas Entomological Society</i>	93(3) : 230-245. 2021
6.	Synthesis of sericin-conjugated silver nanoparticles and their potential	<i>Journal of Basic Microbiology</i>	60(5) :458-467 2020

	antimicrobial activity		
7.	Dose and duration-dependent toxicological evaluation of lead acetate in chicks	<i>Environmental Science and Pollution Research</i>	27(13): 15149-15164 2020
8.	Antimicrobial and antioxidant analysis of <i>Strobilanthes glutinosa</i> : an unexplored medicinal plant https://www.isisn.org/BR-17-4-2020.htm	<i>Bioscience Research</i>	17(2): 1521-1534 2020
9.	Investigation of <i>Salsola imbricata</i> extracts against human pathogenic bacteria and fungi and in vitro antioxidant activities. https://www.isisn.org/BR-17-4-2020.htm	<i>Bioscience Research</i>	17(2): 2716-2729.
10.	Nature and applications of scorpion venom: an overview.	<i>Toxin Reviews</i>	39(3): 214-225 2020
11.	Antimicrobial and Antioxidant Screening of <i>Flueggea Virosa</i> . https://www.isisn.org/BR-17-4-2020.htm	<i>Bioscience Research</i>	17(4): 2791-2798. 2020
12.	Assessment of in vitro anthelmintic activity of crude extracts of <i>Dysphania ambrosioides</i> against <i>Haemonchus contortus</i> a sheep pathogenic parasite https://www.isisn.org/BR-17-4-2020.htm	<i>Bioscience Research</i>	17(4): 2760-2769 2020
13.	Effect of Honey (<i>Apis dorsata</i> [Hymenoptera: Apidae]) on Larval Growth and Silk Cocoon Yield of <i>Bombyx mori</i> (Lepidoptera: Bombycidae)	<i>Journal of Insect Science</i>	19(6): 1–5 2019
14.	First record of <i>Polistes wattii</i> Cameron, 1900 (hymenoptera: vespidae) from district Bhimber, Azad Kashmir.	<i>Pakistan Entomologist</i>	41(2): 57-61 2019
15.	Growth Characteristics, Metal Uptake and Expression Analysis of Copper Metallothionein in a Newly Reported Ciliate, <i>Tetrahymena farahensis</i> .	<i>Pakistan Journal of Zoology</i>	50(3): 171-1181 2018
16.	Effect of Milking Method, Diet, and Temperature on Venom Production in Scorpions	<i>Journal of Insect Science</i>	18(4): 1–7 2018
17.	Molecular characterization of a copper metallothionein gene from a ciliate <i>Tetrahymena farahensis</i>	<i>Journal of Cellular Biochemistry</i>	117: 1843-1854 2016
18.	Molecular identification and characterization of heavy metal resistant bacteria and their role in bioremediation of chromium.	<i>British Microbiology Research Journal</i>	13:6 2016
19.	A New Ciliate Species, <i>Tetrahymena farahensis</i> , Isolated from the Industrial Wastewater and Its	<i>Pakistan Journal of Zoology</i>	46(5): 1433- 1445 2014

	Phylogenetic Relationship with Other Members of the Genus <i>Tetrahymena</i>		
20.	Isolation and characterization of arsenic resistant bacteria from wastewater.	<i>Brazilian Journal of Microbiology</i>	45(4): 1309-1315. 2014
21.	Optimization of Fermentation Media for the Enhanced Amino Acids Production by Bacteria Isolated from Natural Sources.	<i>Pakistan Journal of Zoology</i>	44(4): 1145-1157. 2012
22.	Cloning and Expression of cry11B Gene from a Local Isolate of <i>Bacillus thuringiensis</i> and its Mosquitocidal Activity,	<i>Pakistan Journal of Zoology</i>	43(4): 701-713. 2011
23.			

16. Research Project as PI

Sr. No.	Title of the Project	Funding Agency	Amount
1.	Diversity analysis and culture optimization of ciliates from freshwater bodies of Lahore division	ORIC GCU	Rs. 300,000/-
2.	Anti-proliferative and apoptogenic potential of peptides and proteins from scorpion venom (2019)	HEC Pakistan	Rs. 1,794,586/-
3.	Prevalence and control of free living amoeba in operational drinking water distribution system of Lahore (2018)	ORIC GCU	Rs. 250,000/-

17. Academic Talks

Sr. No.	Title of the Talk	Host Organization	Date
1.	Characterization of Free Living Amoebae from drinking water distribution system and its control using disinfectants	Zoological Society of Pakistan	Dec 17-19, 2021
2.	Bioremediation of industrial wastewater using ciliates and bacteria	Govt. Islamia College Civil lines Lahore, Pakistan	July 07, 2021
3.	Detection of opportunists free living amoebae from drinking and household water resources of Lahore	Zoological Society of Pakistan	March 4-6, 2019
4.	Morphological and molecular characterization of <i>Tetraponera</i> sp. isolated from district Bhimber Azad Jammu & Kashmir	Zoological Society of Pakistan	FEB 28– Mar 2, 2017
5.	Molecular characterization of CuMT from locally isolated metal resistant <i>Tetrahymena</i> 1.7	GC University Lahore	May 06-08, 2014
6.	Expression level studies of <i>tetrahymena</i> copper metallothionein	Zoological Society of Pakistan	April 2-4, 2013
7.	Molecular characterization of two isoforms of copper metallothionein gene(s) from a local isolate of <i>Tetrahymena</i>	Zoological Society of Pakistan	March 6-8, 2012
8.	Isolation and phylogenetic analysis of	Zoological Society of	April 19-

	metal resistant Ciliates	Pakistan	21, 2011
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18. Books Book Chapters Published

Sr. No.	Title	Publisher	Date
1.	Sustainable bioremediation of textile wastewater using bacterial treatment approach. In: Advances in eco-friendly and sustainable technologies for the treatment of textile wastewater.	Elsevier	2022
2.	Bacterial Extracellular Polymeric Substances for Degradation of Textile Dyes. In: Khadir, A., Muthu, S.S. (Eds.), <i>In Polymer Technology in Dye-containing Wastewater</i> (pp. 175-191).	Springer, Singapore	2022
3.	Induced Cytological Aberrations through Mutagenesis: A Review. In T. A. Bhat (Ed.), <i>Mutagenesis, cytotoxicity and crop improvement: revolutionizing food science</i> (pp. 115- 158)	Cambridge Scholars Publishing	2021
4.	Exploration, Applicability and Conclusions of Induced Mutagenesis on Broad Bean. In T. A. Bhat (Ed.), <i>Mutagenesis, cytotoxicity and crop improvement: revolutionizing food science</i> (pp. 265- 285)	Cambridge Scholars Publishing	2021
5.	Induced Mutagenesis. In T. A. Bhat (Ed.), <i>Mutagenesis and Cytotoxicity: A review</i> (pp. 11-22)	LAP LAMBERT Academic Publishing	2019
6.	Induced Variability for Quantitative Traits. In T. A. Bhat (Ed.), <i>Mutagenesis and Cytotoxicity: A review</i> (pp. 74-84)	LAP LAMBERT Academic Publishing	2019

19. Role in Institutional Development:

Sr. No.	Nature of Assignment	Duration
1.	Development and approval of BS and M.Phil. Molecular Biology Programs from BOS and BOF (worked as Coordinator of these two new Programs)	02 years & 04 years
2.	Departmental Controller of Examination	1.5 years (2017-To date)
3.	Departmental Timetable In-Charge	03 years (2014-2017)
4.	Departmental Sports Coordinator	01 Year (2018-2019)
5.	Member, Departmental Purchase Committee	02 Years (2019-2021)
6.	Focal person for departmental webpage	01 year (2016-2017)
7.	Member, Departmental Discipline Committee	02 year (2019-To date)
8.	In-Charge BSc. Lab-I	07 years (2015- To date)

9.	Member, Departmental Academic Committee	1.5 Year (Jan 2021-To date)
10.	Member Departmental Technical Committee	06 months (Jan 25- To date)
11.	Member, Admission Committee for BS Zoology	01 Year (2021-2022)

20. Conference / Workshops organized as Focal Person:

Sr. No.	Name of Conference / Workshop	Duration
1.	Two Days Workshop on DNA Isolation and PCR	June 16-17, 2022
2.	2 nd International Conference on Innovative Biological and Public Health Research (As Conference Secretary)	December 06-07, 2017
3.	International Conference on Innovative Biological and Public Health Research (As Conference Secretary)	May 06-08, 2014
4.	4 th International Conference on Innovative Biological and Public Health Research (FP accommodation and transport)	December 07-08, 2021

21. Professional and Research References

Available on demand