Syed Zaheer ud-Din

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Education	
University of the Punjab, Faculty of Science.	Lahore, Pk
M.Phil. Molecular Biology and Genetics GPA: 3.66/4	May 2013-2015
Punjab University, Faculty of Science	Lahore, Pk
M.Sc. Zoology 1 st Division	Jun, 2010-2012
Research Experience	
Research Fellow University of Göttingen	Göttingen, Germany
Identified Key Developmental stages via intensive Dissections and Imaging Technique (cLSM)	Gottingen, Germany
 Phenotyping with 2d and 3d landmarks and multivariate analysis with R 	Jan 2020-2021
 Next Generation Sequencing and differential gene Expression analysis 	
 Cloning, Invitro-Transcription, dsRNA preparation and injecting Larvae 	
Supervised Students for RNAi	
M.Phil. Researcher University of the Punjab	Lahore, PK
I found CRB1 Gene linkage to retinitis pigmentosa in the Punjab population	2014-2015
I identified 12 families of Cataract and 8 families of Retinitis pigmentosa	
Retinography and fundoscopy Tests for patients came from different hospitals in Lahore	
 Extracted DNA, PCR, and prepared samples for advanced study at Johns Hopkins USA 	
 Defended thesis to a jury of 3 professors and a department of ~30 researchers 	
MSc Researcher Department of Zoology, Punjab University	2011-2012
• Worked voluntarily as an Entomologist with Dr. Nasreen in the inst. of Zoology during the Dengu	e epidemic in Lahore.
I collected many larvae and adult mosquitos from different localities and identified them in the l	ab.
Job Experience	
Lab. Technician Microbiology and Molecular Genetics, Punjab University	2009-to date
 I performed the duty of preparing a Medium for culturing Microorganisms. 	
 Green Nanoparticle synthesis, Characterization XRD, FTR. Antimicrobial assay 	
 Lab demonstration for students to measure Optical Density, pH adjustment, and inoculation of E 	. coli
 Maintenance of Records invoices for chemicals used in the lab (Developed Personal Spreadsheet Tasks) 	
	Feb, 2015-sep-2015
Biology Teacher Model Scholar Academy, Model Town, Lahore	
 Biology Teacher Model Scholar Academy, Model Town, Lahore Taught Biology to Classes 10th and 12th 	
Biology Teacher Model Scholar Academy, Model Town, Lahore	

Differential gene expression analysis, Linkage analysis, Gene Silencing (RNAi) Geometric morphometric analysis,

Language: Urdu (native), English (education)

Interest: Reading books (Philosophy, History, Data analysis), Traveling, Phenotyping, genotyping.

- Ph.D. scholarship in Auburn University, United States of America (Offer Accepted) (2024)
- Research fellowship from Dept. Evolutionary Developmental Biology, University of Gottingen, Germany
- Research Fellowship from the Higher Education Commission of Pakistan
- I humbly received the award of a laptop from the Chief Minister of Punjab as proof of my educational abilities.
- Have meritorious position and scholarship award in M.Sc. And M.Phil.
- 1st position Award, 3 shields from Shaheen Foundation Pakistan Air Force (PAF). Base Faisal Karachi.

Conferences/ Seminars

- Hand-on training in 2D 3D Cell Culturing in Microbiology and Molecular Genetics, University of the Punjab.
- Attended the Annual 33rd Pakistan Congress of Zoology at Pakistan Museum of Natural History, Islamabad.
- Agricultural Nanotechnology Conference, Department of Plant Pathology, University of the Punjab, Lahore.
- Seminar Series Evolutionary Developmental Genetics, University of Gottingen, Germany (attached documents).

Publications

- 1) Syed Zaheer ud-Din, laura schoch, Schikora, Nico Posnien. Developmental and molecular mechanisms underlying the formation of head horns in the broad horned beetle *Gnathocerus cornutus*: life cycle analysis. 2023 115th Meeting of the German Zoological Society 4:8 Kassel
- Szu din, Mo fazal, A ishtiaque, A ullah. 2023. Antimicrobial activity of *Lantana camara* against *Pseudomonas aeruginosa*, *Serratia marcescens* and *Staphylococcus aureus* to develop ointment-based therapy. Bulletin of Biological and Allied Sciences Research, (1), 33.
- 3) Muhammad Danish Ali, Ammara Aslam, Malik Asim Haider, Zill e Huma Aftab, Usama Fakhar, Syed Zaheer ud-Din, Safa Ezzine, Iamia ben farhat, H.H. Somaily. 2022. I-V, dielectric, antibacterial, and robust EMI shielding effectiveness properties of graphene/Fe3O4. Inorganic Chemistry Communication, 146: 110039
- Talat Zeeshan, Salma Waseem, Waqia Tahir, Muhammad Danish Ali, Zohra Kayani, Zill-e-Huma Aftab, Syed Zaheer ud din. 2022. Impact of Silver Substitution on Structural, Magnetic, Optical and Antibacterial Properties of Cobalt Ferrite. SSRN: https://ssrn.com/abstract=4167650
- 5) Ammara Aslam, Muhammad Danish Ali, Zill e Huma Aftab, Usama Fakhar, Syed Zaheer ud-Din, Ali Ahmad, Umar Khalid, Mongi Amami, A. Dahshan. Electrical, dielectric, I-V and antimicrobial behavior of cobalt incapacitated Prussian blue graphene ferrites composite. Inorganic Chemistry Communication, 141: 109548.
- 6) Syed Zaheer ud-Din, Nico Posnien. 2024. Comparative RNA-expression meta-analysis of antennae and leg appendages in insects and the impact of distal-less (DII) gene knockdown on appendages in (broad-horned flour beetle) *Gnathocerus cornutus*. Under review, in Comparative Biochemistry and Physiology Part D: Genomics and Proteomics.