

# Dr. Fatima Sughra

**Date of Birth:** June 13<sup>th</sup>, 1979  
**Place of Birth:** Sargodha  
**Marital Status:** Married  
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## Academic Qualification

Exam	Year	Major Subjects	Scores	Division	Institution
PhD	2021	Zoology	358/480	1 <sup>st</sup>	University of Veterinary and Animal Sciences (UVAS)
M. Phil	2004	Zoology	641 / 800	1 <sup>st</sup>	University of Agriculture, Faisalabad
M. Sc	2001	Zoology	746 / 980	1 <sup>st</sup>	University of Agriculture, Faisalabad
B. Sc	1999	Botany, Zoology, Chem	480 / 800	1 <sup>st</sup>	Punjab University, Lahore
HSSC	1996	Physics, Chem, Biology	731 / 1100	1 <sup>st</sup>	BISE, Sargodha
SSC	1994	Physics, Chem, Bio, Math	610 / 850	1 <sup>st</sup>	BISE, Sargodha

## Professional Qualification

Exam	Year	Major Subjects	Scores	Div %	Institution
B. Ed (Science)	2002	Teaching of Biology and General Science	591 / 900	1 <sup>st</sup> / 66	AIOU, Islamabad
M. Ed (Science)	2005	Teaching of Science Education	760 / 1200	1 <sup>st</sup> / 63	AIOU, Islamabad

## Research Profile

- **PhD Zoology Research Thesis:** Immunogenic Potential of Different Adjuvanted Vaccines of *Aeromonas hydrophila* in Culturable Fish Species of Pakistan
- **M. Phil Zoology Research Thesis:** Response of a Methyltestosterone on the Sex-Reversal and Growth of Tilapia Under Different Days
- **M.Sc Zoology Research Thesis:** Effect of Different Level of Cow Dung on Growth Performance of Major Carps

## Experience

1. Served as Secondary School Educator (Science) at Govt. Girls Secondary School, Moazamabad, Sargodha with effect from **24-Nov-2003** till **28-Feb-2005**. Taught all the subjects up to 10<sup>th</sup> class
2. Served as Lecturer (Biology) in the Division of Science and Technology, University of Education, Township Campus, Lahore since **01-March-2005** to **18 Jul 2022**.
3. Presently serving as Assistant Professor (Zoology) in the Division of Science and Technology, University of Education, Township Campus, Lahore since **19-Jul-2022** to date.

## Journal Publications

1. Sughra, F., Ahmed, I., Kanwal, S., and Ateeq, U. "Effect of different level of cow dung on growth performance of major carps". International Journal of Agriculture and Biology, Issue: 1560–8530/2003/05–2–194–195 (2003). DOI:
2. Kanwal, S., Ahmed, I., AFZAL, M., Sughra, F., and Abbas, K. "Comparison of fresh and dry cow dung or growth performance of major carps". Issue: 1560–8530/2003/05–3–313–315 (2003).
3. F. Sughra, M. Rahman, F. Abbas, and I. Altaf. "Evaluation of three alum-precipitated *Aeromonas hydrophila* vaccines administered to *Labeo rohita*, *Cirrhinus mrigala* and *Ctenopharyngodon idella*: immunokinetics, immersion challenge and histopathology." Brazilian Journal of Biology 83 (2021).
4. F. Sughra, M. Rehman, F. Abbas, I. Altaf, S. Aslam, A. Ali, M. Khalid, G. Mustafa, and S.M. Azam. "Evaluation of oil-based inactivated vaccine against *Aeromonas hydrophila* administered to *Labeo rohita*, *Cirrhinus mrigala* and *Ctenopharyngodon idella* at

- different concentrations: Immune response, immersion challenge, growth performance and histopathology." *Aquaculture Reports* 21: 100885 (2021)
5. M. Mushtaq, S.M. Bukhari, S. Ahmad, A. Khattak, M.B. Chattha, I. Mubeen, K. Ur Rehman, S. Andleeb, S. Hussain, A. Javid, A. Hussain, W. Ali, N. Khalid, G. Mustafa, F. Sughra, M.J. Iqbal, M. Khalid, M.M. Naeem, and M. Inayat. "Isolation and characterization of bacteria residing in the oral, gut, and fecal samples of different pheasant species." *Brazilian Journal of Biology* 83 (2021).
  6. K. Ali, A. Iqbal, S.M. Bukhari, S. Safdar, A. Raiz, W. Ali, A. Hussain, A. Javid, M. Hussain, M.M. Ali, A. Mahmud, M.J. Iqbal, M.F. Nasir, I. Mubeen, S. Kanwal, F. Sughra, A. Khattak, and M. Saleem. "Amelioration potential of *Moringa oleifera* extracts against sodium arsenate induced embryotoxicity and genotoxicity in mouse (*Mus musculus*)." *Brazilian Journal of Biology* 83 (2021).
  7. G. Mustafa, A. Iqbal, A. Javid, A. Hussain, S.M. Bukhari, W. Ali, M. Saleem, S.M. Azam, F. Sughra, A. Ali, K. ur Rehman, S. Andleeb, N. Sadiq, S.M. Hussain, A. Ahmad, U. Ahmad. "Variations in nutritional profile of honey produced by various species of genus *Apis*." *Brazilian Journal of Biology* 83 (2021).
  8. Kanwal, S., M. Rehman, A. Hussain, M. Nadeem, F. Abbas, M. Akram, M. Inayat, F. Sughra, and K. Ali. "Development of chitosan based microencapsulated spray dried powder of tuna fish oil: oil load impact and oxidative stability." *Brazilian Journal of Biology* 84 (2021).
  9. Ali Kashif, Asia Iqbal, Maham Saleem, Ayesha Riaz, Sumaira Abbas, Madeeha Arshad, Javed Iqbal, Muhammad Farhan Nasir, Syed Mohsin Bukhari, Athar Mehmud, Fareeha Amin, Ghulam Dastagir and Fatima Sughra. "Sodium arsenate induced genotoxicity, morphometric and morphological changes in mice embryo and protective role of *Moringa oleifera* extracts." *Pak. J. Pharm. Sci.* Vol 34, No. 3 (2021): 1031-1037.
  10. F. Sughra, M. Rehman, F. Abbas, I. Altaf, S. Razzaq, S. Kanwal, M. Inayat, I. Anwer, and M. Akram: "Phenotypic Characterization Genetic Analysis and Antibiotic Sensitivity of *Aeromonas hydrophila* isolates causing Dropsy in Rohu (*Labeo rohita*) from Punjab, Pakistan". *J. Fish.* Vol 10, Issue 1, (2022).
  11. S. Masood, A. Hussain, A. Javid, M. Rashid, S. M. Bukahri, W. Ali, S. Aslam, S. Ali, H. M. A. Amin, I. Ghaffar, A. Imtiaz, A. Masood, H. Salahuddin, F. Sughra, M. S. Sarwar, A. Sharif and K. Aslam. "Fungal conversion of chicken-feather waste into biofortified compost." *Brazilian Journal of Biology.* Vol 83 (2023).
  12. Mustafa, G., Iqbal, A., Arshad Javid, W. A., Ahmad, N., Saleem, M., Farooq, M., ... & Sughra, F. (2022). Morphological and Genetic Characterization of Various *Apis* Species Captured from selected sites Of Punjab. *Feb-Fresenius Environmental Bulletin*, 11259.

13. Sughra, F., Hafeez-ur-Rehman, M., Abbas, F., Altaf, I., Hassan, Z., Bhatti, A., & Ali, K. (2022). Molecular characterisation and genetic analysis of *aerolysin* and *haemolysin* in *Aeromonas hydrophila* isolated from diseased *Labeo rohita* by polymerase chain reaction. *J Fish*, 10(3), 103402-103402.
14. Akram, M., Hafeez-ur-Rehman, M., Abbas, F., Altaf, I., Kanwal, S., Mubeen, N., Khaliq, A., Sharif, A., Tayyaba, M., Talib, S., Riaz, M.N., Zafar, S., Hussain, I., Khan, K.J., and Sughra, F. (2025) Identification, isolation and pathogenicity of *Aeromonas salmonicida* and histopathology of infected *Oncorhynchus mykiss* in Punjab and northern areas of Pakistan. *J Fish*, 13(1), 2311-3111.

## **Conference Publications**

1. S. Fatima, F. Sughra, Z Iqbal, "Investigation of Parasites in Freshwater Ornamental Angel Fish (*Pterophyllum scalare*)", In Proceedings of 6th International Conference on Education Science Beyond Classroom, Lahore, Pakistan, 15-17 Mar (2018).
2. F. Sughra, S. Shaukat, M. Hafeez-ur-Rehman, F. Abbas. Hematological Response of Montanide Oil-Based Inactivated Vaccine of *Aeromonas hydrophila* administered on Rahu (*Labeo rohita*) and Grass Carp(*Ctenopharyngodon idella*) Cultured in Punjab, Pakistan. International Fisheries & Aquaculture Conference-2023, University of the Punjab, Lahore (IFAC-2023).

## **Theses Supervised**

- 2017, M Phil Zoology, Sadia Noor – University of Education
- 2017, M Phil Zoology, Summer Fatima – University of Education
- Currently supervising: 8x Students of MS Zoology

## **Co-curricular responsibilities**

- Member of Quality Enhancement Cell (QEC) for Department of Zoology
- Sub-coordinator for Teaching Practice
- Coordinator of M.Sc Zoology program
- Member Board of Studies (BoS)
- Paper settler for affiliated colleges

## **Career Interests**

Ichthyology, Fisheries & Aquaculture, Fish Disease Management, Fish immunology, Animal Behavior, Cell Biology, Smart fisheries,

## Technical Skills

- Microsoft Office 365
- Bioinformatics & Molecular biology software tools (BioEdit, Mega, BLAST, ClustalW)
- AI & ML Tools in Aquaculture Health & Disease Management
- CS. 715 Software Applications-I
- Professional and Technical Writing in English

## Trainings and Courses

1. Two weeks Certificate Course of Arts and Craft, Division of Arts and Social Sciences, University of Education (**May 29 – June 9, 2005**)
2. Microsoft Partner in Learning ICT-For All [Basic] curriculum course, Provincial Institute of Teacher Education (**June 22, 2005**)
3. Course of Arts and Crafts, Division of Arts and Social Sciences, UoE (**2005**)
4. Staff Development Course, National Academy of Higher Education, Higher Education Commission (**November 07 – December 04, 2006**)
5. Staff Development Course, National Academy of Higher Education, Higher Education Commission (**April 23 – May 23, 2007**)
6. Certificate of Proficiency in English Language by successfully completing 10 Week Intensive training program (**June 05 – August 16, 2007**)
7. Certificate of Appreciation for active participation in Self-Assessment Program (**2013-14**), University of Education
8. First Aid Training Certificate, Pakistan Red Crescent (**2016**)
9. Hands on Training of Global Positioning System (GPS) in Biological Sciences (**2021**)
10. Member of organizing committee for International Conference on Poultry Processing: Farm to Fork Management (**2021**)

## Language Proficiency

Language	Spoken	Read	Write
English	Fluent	Professional	Professional
Chinese	Basic	--	--
Urdu	Native	Native	Native

## **Distinctions**

- Awarded merit scholarship by Govt. Of Punjab (Education Department) for excellence in studies, conduct and regular attendance
- Awarded scholarship by UGC (University Grants Commission)
- Awarded scholarship under Punjab Benevolent Fund
- Merit certificate awarded by Principal Govt. College for Women, Sargodha for scoring 2<sup>nd</sup> position in the subject of Chemistry at graduation level
- Women Guard Certificate was awarded by National Cadet Corps (NCC) during 1995-96
- Certificate of Appreciation in recognition of active and devoted participation in Self-Assessment Program (2013-14), Quality Enhancement Cell, UE