

# Dr Sidra Kanwal

Okara, Pakistan

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## **Objective:**

Seeking a challenging position in a progressive organization with an aim to contribute positively toward the objectives of the organization to the best of my capabilities and to develop my professional skills.

## **Areas of Professional Competency and Expertise:**

Unique capabilities of working as a team leader in multi-sectoral, inter-temporal and multi-disciplinary teams consisting of variety of professionals.

## **Qualification**

2017-2020	<b>PhD Zoology</b> Department of Aquaculture and Fisheries University of Veterinary and Animal Sciences Lahore CGPA 3.89/4
2014-16	<b>M.Phil. Zoology</b> Department of Zoology, Wildlife & Fisheries, University of Agriculture Faisalabad. CGPA (3.95/4)
2010-14	<b>BS (Hons) Zoology</b> Department of Zoology, Wildlife & Fisheries, GCUF. 82.68%.
2008-10	<b>F.Sc (Pre-Medical)</b>

2006-08

Govt. College for women # 1, Okara.

64.72%

**Matriculation**

Govt. Girls model High School, Okara.

73.64%

**Title of Dissertation (M. Phil):** Ex-situ determination of heavy metal bioaccumulation in earthworms

**Title of Dissertation (Ph.D.):** Improving nutritional profile and oxidative stability of value added fish products through microencapsulation of marine fish oil

**IT Skills**

All operating system Applications, Internet, networking, Microsoft office, Inpage, Multimedia, Troubleshooting.

**Experience**

**Assistant Professor (BPS-19)**

Department of Zoology, Wildlife & Fisheries, University of Agriculture Faisalabad, Sub-campus Burewala till to date

**Lecturer (BPS-18)**

Worked as lecturer Zoology University of Okara from July 2019 to August 2024.

**Visiting Lecturer**

Worked as visiting lecturer at University of Okara from March 2017 to 2019.

**Research Interests**

Fishery

Food Science

Animal Diversity

Toxicology

**Workshops Organized**

1. Member organizing committee: 2nd International Conference on New Trends in Biological sciences on 16th – 17th January 2023. Organized by IPAZ and SAB, university of Okara, Okara.
2. Member organizing committee in: International Conference on New Trends in Biological sciences on 21-22 March 2022. Organized by IPAZ and SAB, university of Okara, Okara.
3. Member organizing committee in: Poster Competition on Emerging Trends in Biosciences on 07 February 2019. Organized by Department of Zoology, Department of Molecular Biology and Department of Biotechnology, University of Okara, Okara.

### **Seminars & Conferences**

1. Oral Presentation in: International Conference on Food & Applied Sciences 13<sup>th</sup> Evolutions's (ICFAS,2025) Okara.
2. Conference attended on international trends in biological sciences.
3. Conference attended on Water Pollution and its Mitigation.
4. Conference attended on Sustainable Wetlands Management.
5. Participated in emerging trends in biosciences.
6. Participated in international fisheries and aquaculture conference.
7. Conference attended on trends and innovation in food processing technology: prospects and challenges.

### **Publications**

- **Kanwal S**, Hafeez-ur-rahman M, Hussain A, Nadeem M, Abbas F, Akram M, Inayat M, Ali K. 2021. Optimization of chitosan for microencapsulation of flaxseed oil through spray drying (Online in Pak J Pharm Sci. 34(4): 1569-1575.
- **Kanwal S**, Hafeez-ur-rahman M, Hussain A, Nadeem M, Abbas F, Akram M, Inayat M, Sughra F, Ali K. 2021. Development of chitosan based microencapsulated spray dried powder of tuna fish oil: oil load impact and oxidative stability. Brazilian Journal of Biology, 2024, vol. 84, e254010 <https://doi.org/10.1590/1519-6984.254010>
- Sughra F, Hafeez-ur-Rehman M, Abbas F, Altaf I, Razzaq S, **Kanwal S**, Inayat M, Answer I, Akram M. 2022. Phenotypic characterization, genetic analysis and antibiotic sensitivity of *Aeromonas hydrophila* isolates causing dropsy in cultured *Labeo rohita* from Punjab, Pakistan. J Fish. 10(1): 1-10
- Ali K, Iqbal A, Bukhari S.M, Safdar S, Raiz A, Ali W, Hussain A, Javid A, Hussain M, Ali M. M, Mahmud A, Iqbal MJ, Nasir MF, Mubeen I, **Kanwal S**, Sughra F, Khattak A, and Saleem M. Amelioration potential of *Moringa oleifera* extracts against sodium arsenate induced embryotoxicity and genotoxicity in mouse (Mus

musculus) Braz J Biol. 2023, vol. 83, e248022 | <https://doi.org/10.1590/1519-6984>

- Butt M, Perveen S, Rasool F, Ayub A, Ali K, Sajjad A, Nasir MF, **Kanwal S**, Muzammil E, Chaudhary I, Magsi AS. Genetic variation between hybrid (Labeo rohita♂, Cirrhinus mrigala♀ and Labeo rohita) by RAPD marker. Brazilian Journal of Biology. 2023, Apr 3;84:e268551.
- **Kanwal S**, Arshad M, Ahmad RM, Ali K, Asad M, Nasir MF, Iqbal MJ, Atiq I, Rasheed M, Saleem M. Impact Of Pesticides On The Morphological Characteristics And The Diversity Of Earthworm Species From District Okara Punjab Pakistan. Journal of Survey in Fisheries Sciences. 2023 Jun 18:482-91.
- **Kanwal S**, Hafeez-Ur-Rahman M, Ali K, Nasir MF, Asad M, Iqbal MJ, Saleem M, Rasheed M, Atiq I, Anjum S. Development Of Sausages Fortified With Flaxseed Oil Microcapsules And Its Impact On Oxidative And Sensory Stability. Journal of Survey in Fisheries Sciences. 2023 Jan 1:1688-702.
- Akram M, Hafeez-Ur-Rehman M, Abbas F, Altaf I, **Kanwal S**, Ali K, Gulzar N, Ajmal M, Asad M, Iqbal J. Oil Based Inactivated Vaccine Formulation for Furunculosis (A. salmonicida) and Protective Immune Response of Rainbow Trout and Brown Trout. 2023. Sains Malaysiana. 52(8): 2163-2173.
- Arslan Amin HM, Inayat S, Gulzar N, Bhatti JA, Masood S, Ayub A, **Kanwal S**, Batool M, Ajmal M, Mustafa G. Addition of transglutaminase enzyme in camel milk yoghurt to increase its sensorial aspects. Brazilian Journal of Biology. 2023 Jan 23;84.

### **Book Chapter**

Muhammad Farhan Nasir , Muhammad Asad, Kashif Ali, Amina Ayub, Abdullah Azeem, Muhammad Javed Iqbal and **Sidra kanwal**. Ethno-medicinal Approach to Cure Animal Diseases. Unique scientific publishers. pp 223-229.

### **Research Projects**

Project Title: Assessment of feeding habits and diversity of mammals along selected sites of river Ravi Punjab, Pakistan

Project Title: Heavy metal bioaccumulation by earthworms: availability in premises of dist. Okara industries

### **M.Phil Thesis Supervised:**

Sr. no	Student Name and Reg. No	Approved titles of thesis	Session
1	Abida Mualam Din/F21-M. Phil-ZOOL-5046	“Ameliorative effects of Moringa oleifera (MO) leaf extract against Acetamiprid induced hematological and behavioral changes in Rohu fish ( <i>Labeo rohita</i> )	2021-23
2	Sana Murtaza / F21-M. Phil-ZOOL-5034	“Impact of Carbon Tetrachloride (CCl <sub>4</sub> ) induced toxicity on histology of Rohu ( <i>Labeo rohita</i> )”	2021-23
3	Muhammad Javed Islam / F21-M. Phil-ZOOL-5053	A comparative study on mammalian diversity along river Ravi and Satluj Punjab, Pakistan	2021-23
4	Aneela Anayat / F22-MPHIL-ZOOL-5019	Impact of cypermethrin and acetamiprid induced toxicity on kidneys and gills of <i>Labeo rohita</i>	2022-24
5	Aniq Mashkooor / F22-MPHIL-ZOOL-5077	A study on impact of cypermethrin and acetamiprid toxicity on liver and muscles of <i>C. mrigala</i> .	2022-24
6	Ayesha Saddiqa / F22-MPHIL-ZOOL-1016	Histopathological changes in liver and muscle of <i>labeo rohita</i> due to cypermethrin and acetamiprid induced toxicity	2022-24
7	Hijab Fatima / F22-MPHIL-ZOOL-1003	A comparative study on cypermethrin and 8Acetamiprid toxicity on the Hematology o9f <i>Cirrhinus Mrigala</i>	2022-24
8	Muhammad Aرسال Amin / F22-MPHIL-ZOOL-5026	Ef10fect of cypermethrin and acetamiprid induced toxicity on the hematology of <i>Labeo rohita</i>	2022-24

9	Maria Talib / F22-MPHIL-ZOOL-1031	A study on diversity of amphibians and reptiles along different sites of river Satluj Punjab pakistan	2022-24
10	Maria Muhammad Yar / F22-MPHIL-ZOOL-5078	impact of cypermethrin and acetamipirid toxicity on Gills and kidneys of <i>C. mirigala</i>	2022-24
11	Shahzad Anjum / F22-M.PHIL-ZOOL-5002	Current status of freshwater ichthofauna at sulemanki headworks, river satluj PAKISTAN	2022-24
12	Muhammad Arshad / F22-MPHIL-ZOOL- 5008	Diversity of amphibians and reptiles in District Sahiwal Punjab, Pakistan	2022-24
13	Muhammad Arshaid / F22-MPHIL-ZOOL_-5015	Diversity of amphibians and reptiles in District Pakpattan, Punjab, Pakistan	2022-24
14	Sadia Saeed / F22-mphil - ZOOL- 5018	Deleterious effects of omidaloprid at heart tissues of Rabbits and protective role of lemon juice	2022-24
15	Sehrish Gillani / F22-MPHIL-ZOOL-5030	Prevalence and awareness of PINK eye infection in central Punjab, Pakistan	2022-24

**MSc Thesis Supervised:**

Sr. no	Student Name / Roll No	Approved titles of thesis	Session
1	Nimra Liaquat / F21-MSc-Zool-1016	A study on population and diversity of earthworms in relation to different flora	2021-23
2	Jaweria Iram / S22-MSC-ZOOL-1012	A study on evaluation of hemoglobin level and anemia in pregnant females in district Sargodha, Pakistan	2022-24
3	Muhammad Hamza / S22-MSC-ZOOL-1027	A survey based study on transfusion threshold for blood transfusion in thalassemia Patients in district Bahawalpur, Punjab, Pakistan	2022-24

**Additional Information**

- Excellent organizational and administration skills, with experience in dealing with faculty and public and high level workloads within strict deadlines.
- Good written and oral communication skills.
- Ability to assess organizational assignments. And to provide meaningful feedback and encouragement.
- The ability to work harmoniously and constructively with other members of the department.
- The ability to contribute effectively to the intellectual activities in the organization.
- Excellent communication skills and have a friendly and outgoing personality.
- Highly computer literate.
- Capable of applying leadership and people management skills.
- Multi-cultural background with diverse language skills.
- Strong analytical skills and sound imaginative power.
- Hard working, conscientious and trust worthy.

## **Awards and Recognition**

- 1<sup>st</sup> position in M. Phil Zoology and awarded with silver medal.
- Selected as the top ten student of University of Agriculture Faisalabad and awarded with merit-based scholarship.
- Second position holder in BS (Hons) Zoology and awarded with silver medal.
- Got Merit based Laptops.
- Representative of Zoology Department.

## **Member of Professional Organizations**

- Member of “**GC Society**” at **GCUF**.
- Member of “**Scout Group**” of **GCUF**.

## **Personal Data**

Date of Birth:	19 August 1993
NIC #	35302-0473495-6
Father Name:	Ali Asghar
Nationality:	Pakistan
Domicile:	Okara (Punjab)
Marital Status:	Married
Religion	Islam

## **References**

- Prof. Dr Muhammad Wajid  
Pro Vice Chancellor University of Okara
- Dr Muhammad Hafeez ur Rehman

Associate professor, Chairman Department of Fisheries & Aquaculture, University of Veterinary and Animal Sciences, Lahore.

- Dr. Nazia Ehsan

Associate Professor, Department of Zoology, Wildlife & Fisheries

University Of Agriculture Faisalabad.