

NOWROSJEE WADIA COLLEGE, PUNE

FACULTY ACADEMIC PROFILE



Ms. Shweta Dhindhwal

Assistant Professor, Zoology

Highest Qualification: M.Phil. (Zoology)

Specialization: Fish Neuroendocrinology

Official College Email: sdhindhwal@noworsjeeewadiacollege.edu.in

PROFESSIONAL SNAPSHOT

Ms. Shweta Dhindhwal is an Assistant Professor of Zoology with eight years of teaching experience, with a strong commitment to undergraduate and postgraduate education. Her teaching areas include Animal systematics, Immunology and Mammalian Reproductive Physiology. Her research background is in Fish Neuroendocrinology, with a growing research interest in understanding the effects of anthropogenic activities on fish brain and fecundity. She is a NET-JRF qualified academic and have also contributed to educational initiatives through Teach for India. She has also been involved in development of academic content for e-Pathshala under UGC. As an educator, she is committed to expanding knowledge while creating engaging, supportive and effective learning experiences that help students understand concepts deeply, think critically and develop a lasting interest in Biological Sciences.

EDUCATION

Qualification	University / Institution	Year
B.Sc. Zoology	Hindu College, University of Delhi	2011
M.Sc. Zoology	University of Delhi	2013
M.Phil. Zoology	University of Delhi	2015
NET-JRF (Life Sciences)	CSIR-UGC	2013

TEACHING & ACADEMIC INTERESTS

• Animal Systematics • Immunology • Mammalian Reproductive Physiology • Endocrinology • Cell Biology & Genetics

RESEARCH & PUBLICATIONS

- Pathan, M. & Dhindhwal, S. "Effect of household detergent on the brain histology of freshwater murrel, *Channa punctatus*", IRJES, Vol.12(3),30-36, October (2023).
- Dhindhwal, S. "Dopaminergic system in the brain of the freshwater murrel, *Channa punctatus* (Bloch)", White Falcon Publishing, India (2016). (ISBN: 978 1943851188)

ACHIEVEMENTS & PROFESSIONAL DEVELOPMENT

Grants & Fellowships

- The Teach for India fellowship, Teach for India (2017).
- University grant for graduate students, Bio Sciences Department, University of Calgary, Canada (2016).
- Joint CSIR-UGC Test for Junior Research Fellowship (JRF) and Eligibility for Lectureship (NET) in Life Sciences, December 2013, AIR- 64.

FDP

- Seven days MS-DEED Level Workshop on Introduction to Innovative Pedagogies organized by Maharashtra State Faculty Development Academy, Pune in Collaboration with IISER, Pune.

Conference Presentations

- Oral presentation, in International Conference on Biosciences for Harmony with Nature (ICBHN 2025) at Abeda Inamdar Senior College, Pune: Effect of heavy metals: Chromatophoric alterations and accumulation in brain of fish.
- E-poster presentation, in Enviro-Summit 2024: International Conference on Climate Change, Ecology and Environment at MIT-WPU, Pune: Effect of household detergent on neurosecretory material in freshwater murrel, *Channa punctatus*.
- Oral presentation, in the International Conference on Multi-Disciplinary Research and Innovation ICMRI-2023, (Hybrid Mode) at Dubai: Toxic effects of detergents on the fish, *Poecilia reticulata*.
- Poster presentation, in the International Symposium on Comparative Endocrinology and Integrative Physiology (CEIP 2015) organized at Park Centre, Technopark, Thiruvananthapuram, Kerala, India under poster entitled: Dopaminergic control of meiotic oocyte maturation in the fish.
- E-poster presentation, in the International Conference on Aquaculture & Fisheries (Aquaculture 2015) organized at Brisbane, Australia, under e-poster entitle: Distribution of putative dopaminergic neurons and identification of D2 receptors in the brain of freshwater murrel, *Channa punctatus*.
- Poster presentation, held by The 10th Indian Fisheries and Aquaculture Forum organised at ICAR-NBFGR, Lucknow, India under poster entitled: Identification of D2 receptors and distribution of putative dopaminergic neurons in the brain of fish.

Conference/Workshops/ Seminars/ Symposia attended: more than 10.

Research projects guidance at M.Sc. level: 5 students.

ACADEMIC RESPONSIBILITIES

- Conducted Field visits, Educational Tours, Departmental fest.
- External Examiner for SPPU University examinations.
- Participated in departmental academic activities and curriculum development.
- Mentored UG students in their field project and CEP.
- Prepared course materials, practical protocols, assignments and assessments.