

Dr. Barnali Sarkar



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EDUCATION:

1. **Ph.D in Zoology** with ecology and environmental biology, University of Calcutta
2. **M. Phil in Zoology** with special paper Ecology, University of Burdwan.
 - Dissertation topic: Gastrointestinal Microbiota in Two Species of Tilapia, *Oreochromis mossambicus* and *Oreochromis niloticus*: a Scanning Electron Microscopy and Microbiological Study.
 - Review topic:
 - Phytochemicals: the controlling factor for insect oviposition.
 - Environmental estrogens: The endocrine disrupters
3. **M. Sc. in Zoology** with special paper Ecology, University of Calcutta
 - Review topic:
 - Acid rain: the consequences in fresh water ecosystem.
 - Projects:
 - Diel changes in the avian community at the edge of shola forest of western ghat.
 - Temporal changes in migratory avian populations and the possible impact on limnochemical features in an urban freshwater lake.
4. **B. Sc. Honors in Zoology** with chemistry and botany general paper, University of Calcutta.
5. **Higher Secondary** in pure science stream with Physics, Chemistry, Math, Biology, Bengali and English, W.B.C.H.S.E.
6. **Madhyamic** with Physical Sc., Life Sc., Math, History, geography, Biology, Bengali and English, W.B.B.S.E.

Paper publication:

1. Aich A, **Sarkar B**, Mukhopadhyay SK. 2005. Diel changes in the avian community at the edge of a shola forest in Western Ghat. Journal of Environment and Sociobiology, 2(1 and 2):9-14. ISSN: 0973-0834
2. **Sarkar B**, Ghosh K. 2014. Gastrointestinal microbiota in *Oreochromis mossambicus* (Peters) and *Oreochromis niloticus* (Linnaeus): Scanning electron microscopy and microbiological study. International Journal of Fisheries and Aquatic Studies, 2(2):78-88. ISSN:2347-5129.

3. **Sarkar B**, Hazra P, Kumar SP, Ghosh P, Banerjee A, Khan TN. 2014. Habitat Attributes and Waterbird-Use of Four Wetlands in Manas National Park, Assam, India. Proceedings of the Zoological Society, 67(2):94-107. ISSN: 0373-5893.
4. **Sarkar B**, Aditya G, Saha GK 2016. Water hyacinth: Origin, Mode of Invasion and its Role as Ecosystem Service Provider. In: Saha GK. (Eds.): Wetland: crisis and options. Chapter 17; New Delhi, India: Astral International. 265-286pp. ISBN: 978-81-85211-98-5 (Hardbound); ISBN 978-93-86071-03-3 (International Edition)

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EXPERIENCE IN HANDLING MODERN EQUIPMENTS:

- The taxonomy of zooplankton species, especially copepoda, ostracoda, cladocera & rotifera.
- Classical zoological practical that included dissections, sectioning, staining, and identification.
- The use of sophisticated analytical instruments like UV-Vis spectrophotometer, AAS, HPLC & CHN analyzer & colorimeter, pH meter.
- Handling kits and techniques related to immunological and genetic researches like, PCR Technique, Agarose-Gel Electrophoresis & SDS-PAGE and SEM.
- Handling soft wares like PCORD, GENSTAT.

TEACHING EXPERIENCE:

2009 – Present: **West Bengal State Aided College Teacher (category-I)**

FIELD STUDIES:

- Floral and faunal diversity at the forest of *Kanha National Park* in *Madhya Pradesh*.
- The bamboo & canebrakes of the *western ghat hill forests* of southern blocks of *western ghat*, a *biodiversity hotspot* and have gathered the first hand knowledge in handling tools & techniques of wildlife studies.
- East Calcutta wetland eco-system (now a Ramsar site) and studied the toxicity ameliorating capacity of wetland.
- Diversity and density count of migratory water birds and testing water parameters at Tilpara and Bakreswar water bodies.
- Avian diversity and density count at Santragachhi jheel, an abode of migratory water birds.

Computer skills: Proficient in MS Office 2003 package, have used MS Word, Excel and PowerPoint on regular basis during administrative and academic duties

Willingness to learn: I am always ready to develop my understanding and acquire new skills through employment.

Communication skills: Demonstrated and developed effective presentation skills during my post Graduate programme and during my work experience at various places.

Languages: English, Bengali and Hindi (spoken and written)

References: Available if necessary

HOBBIES:

- Bird watching.
- Photography.

➤ Drawing.

Date:

Signature: