

Dr. MUNMUN CHAKRABARTY

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Destination: Assistant Professor, Department of Zoology, Charuchandra College, (22, Lake Road, Kolkata-700029), University of Calcutta.
Years of Service: 5 years.

Educational Qualification:

PhD “Assessment of Index of Biotic Integrity of River Teesta (West Bengal) Based on Ichthyofaunal Assemblages and Landscape Dynamics”

Aquatic Bioresource Research Laboratory, Department of Zoology, University of Calcutta.

2010-2015
(Ph.D)

Supervised by: Prof (Dr) Sumit Homechaudhuri.

This is an ecological study based on biodiversity of fish in a large torrential river in Eastern Himalayan region in West Bengal, India and associated assessment of riverine health based on certain functional traits of the fish assemblage. The study also includes landscape dynamics through remote sensing and GIS applications.

M.Phil, Fisheries Technology, University of Calcutta

83.6%, First Position Rank Holder.

2007-2008

Final year dissertation: “Analysis of Erythropoietic and Leucopoietic cells and Histopathological changes in *Channa punctatus* (Bloch) following inoculation of two aeromonad strains”, Department of Zoology, University of Calcutta.

M.Sc, Zoology, University of Calcutta

74.2%, First Class.

2005-2007

Specialization: Immunology and Parasitology.

Final year dissertation: "Role of Radioattenuated Leishmania Parasites in Protection of Visceral Leishmaniasis", UGC-DAE Consortium for Scientific Research, Kolkata Centre.

2002-2005 *B.Sc, Zoology (Honours), Bidhannagar Govt. College, University of Calcutta*
61.25%, First Class.

2000-2002 *ISC (10+2), Council for Indian School Certificate Examination, New Delhi*
73%
Subjects covered: English, Bengali, Mathematics, Biology, Chemistry, and Physics.

2000 *ICSC (10), Council for Indian School Certificate Examination, New Delhi*
82%
Subjects covered: English, Bengali, Mathematics, Biology, Chemistry, Physics, Geography, History & Civics, and Computer Science.

Research Experience (5+ years)

May 2013-2015 Six months course work in "Research aptitudes" followed by Ph.D dissertation.
Field and laboratory experience in Fish Biodiversity and Ecology in northern part of West Bengal, India.
Teaching experience (M.Sc batch, University of Calcutta)

May 2012 Extensive Field (1 month) and "Biodiversity documentation of Fish and Macroinvertebrate of Wangchuck Centennial park, Bhutan"

July 2010 - April 2013 Research fellow, Zoological Survey of India. Kolkata
Successfully managed project on "Biosystematics and Taxonomy of Sisorid Catfish in India".
Field and laboratory experience in Fish Biodiversity and Ecology, Biosystematics and Taxonomy of Sisorid Catfish in India.

October 2008 - April 2010 Research fellow, Central Inland Fisheries Research Institute, Barrackpore, Kolkata
Successfully managed one year six months project on "Assessment of Fisheries with regard to water quality of rivers Ganga and Yamuna".
Field and laboratory experience in Fish Taxonomy, Diversity and Environmental Monitoring.

Publications:

- 2008-2010
- Book (2)
- Fishes of River Ganga, A Field Identification Manual. Bull. No. 165, Central Inland Fisheries Research Institute, 2010.
 - Preliminary study on the freshwater Biodiversity in Wangchuk Centennial Park, Bumthang. Freshwater and Climate change program, WWF , Bhutan & University of Calcutta. 2012.
- Short Communication (1):
- Chakrabarty, M., Mondal, K., Sett, P. and Paul, S. K. 2009. First record of *Escualosathoracata Valenciennes* in fresh water zone of Hoogly estuary near Dakshineswar. *Journal of the Inland Fisheries Society of India*, 41(2): 80-83.
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- 2010-2012
- Papers (2):
- Ghosh, R., Chakrabarty, M & Homechudhuri, S. 2011. Analysis of haemopoietic cells, blood variables and histopathological cells in *Channa punctatus* (Bloch) following experimental inoculation of two strains of aeromonads. *Indian Journal of Animal Sciences* 81 (6): 641–647.
 - Mishra, S. S., Chakrabarty, M., Kar, S. & Gopi, K.C. 2010. Catfish Diversity of West Bengal, India *J. Environ. & Sociobiol.* : 7(2) : 189-194.
- Book (1): Preliminary report on Freshwater biodiversity in Wangchuck Centennial Park, Bumthang. 2012. Department of Zoology; WWF Bhutan, Thimpu.
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- 2013-2014
- Papers (3):
- Chakrabarty, M. & Homechaudhuri, S., 2013. Fish guild structure along a longitudinally-determined ecological zonation of Teesta, an eastern Himalayan river in West Bengal, India. *Arxius de Miscel·lània Zoològica*, 11: 196-213.
 - Chakrabarty, M & Homechaudhuri, S. 2014. Analysis of trophic gradient through environmental filter influencing fish assemblage structure of the river Teesta in Eastern Himalayas. *Journal of Biodiversity and Environmental Sciences*, 4 (4): 218-232.
 - Chakrabarty, M & Homechaudhuri, S. 2015. Resource partitioning as determining factor in structuring fish diversity pattern along ecological gradient of River Teesta in Eastern Himalaya. *International Journal of Fisheries and Aquatic Sciences*, 2(4): 74-80.
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2015-2022

Papers (3):

- Panja, S., Chakrabarty, M., Podder, A., Roy, A., Biswas, M. & Homechaudhuri, S. 2021. Comparative assessment of piscine beta diversity profile and key determinant environmental factors in two freshwater rivers of variable spatial scale in Dooars, West Bengal, India. *Tropical Ecology*. *Tropical Ecology*, 62(4), 589-599. <https://doi.org/10.1007/s42965-021-00171-4>
- Panja, S., Podder, A., Chakrabarty, M. et al. 2022. Spatial pattern of freshwater habitats and their prioritization using additive partitions of beta diversity of inhabitant piscine assemblages in the Terai–Dooars ecoregion of Eastern Himalayas. *Limnology* 23, 57–72.
- Panja, S; Podder, A; Chakrabarty, M; Homechaudhuri, S. 2022 Species conservation target for freshwater fishes inhabiting sub-Himalayan Terai-Dooars ecoregion, Eastern Himalayas: An indexed value approach for priority determination". *Aquatic Ecology*. (in Press).

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- Book Chapter.

Samanta, P.K., Pahari, D. & Chakrabarty, M. 2020. Chapter-1 Remote Sensing in Biodiversity Monitoring 1-20. *Environmental Biology & Toxicology*. Lambert Academic Publishing. ISBN: 978-620-0-55023-1.
