

Dr. RAJARSHI GHOSH



Designation: ASSISTANT PROFESSOR IN ZOOLOGY (WBES)

About Me:

Presently I am working as an Assistant Professor in the Post Graduate Department of Zoology, Maulana Azad College, Kolkata, since 2015. Since I was a student, I have intensely observed that the best teachers were those who truly concerned about their teaching. One can easily notice this zeal which collectively comes from systematic homework, constant evolution of teaching skills and most importantly the pleasure of watching students learn. I have been always interested in understanding animal biodiversity functions and their conservation both at the macro and micro level. I attended St. Xavier's College, Calcutta for Higher Secondary education which emphasized academic excellence and character building through sports, cultural activities and social service. From Presidency College, Calcutta, I got a holistic concept on life sciences during my undergraduate education. My doctoral thesis work involved the study of leucocytic profiles and various blood biochemistry parameters of an air-breathing fish under normal and pathological conditions. The essential purpose of this work was to provide a corpus of basic information with special emphasis of its diagnostic purpose which may be useful to fishery biologists in giving directions to proper aqua cultural management. I believe this doctoral level training has enabled me to combine a teaching career with research activities and set up a right balance in achieving my professional goals.

Qualifications:

SL No.	College/ Universities	Degree Awarded	Year of Award	Grade/ Classification
1	Presidency College, University of Calcutta	B.Sc. (Hons.)	1999	1st
2	University of Calcutta	M.Sc.	2001	1st
3	University of Calcutta	B. Ed.	2005	1st
4	University of Calcutta	Ph.D.	2009	Zoology

- Title of PhD thesis: : Leucocytic Profiles and Blood Chemistry in *Channa punctatus* (Bloch) under normal and pathological conditions

Current Teaching:

- Undergraduate and Postgraduate teaching in Zoology since 2015
- Overview – brief summary of Current Teaching, maximum of 100 words

Research Interests:

- My current research interests include composition study of various freshwater fish and fishery product, microbiology of fish, processed fish and fish products, biochemical changes that take place during processing and storage of fish. Besides, heavy metal toxicity in fish, Quality assurance of fish and fishery products, safety aspect of fish and fishery product, microbiology of fish and fishery products is another area of research interest.
- Main Research Projects – NA

Enterprise and Commercial Activities: NA

List of publications (book chapter/papers/ articles in standard referred national and international journals):

1. **Ghosh, R.** and Homechaudhuri, S. (2007). Micromorphometry, Cell distribution and Ultrastructure of some Immunopotent Leucocytes from Pronephric Kidney of *Channa punctatus* (Bloch). *Asian Fisheries Science*, 20: 95-107. ISSN: 0116-6514
2. **Ghosh, R.,** Som, M. and Homechaudhuri, S. (2007). Pronephric haemopoietic activities and corpuscular values in the circulating blood of *Channa punctatus* (Bloch, 1793) exposed to Metacid 50, an organophosphate pesticide. *Science & Culture*, 73 (7-8): 247-251. ISSN: 0036-8156.
3. **Ghosh, R.** and Homechaudhuri, S. (2010). Haematological parameters in adult *Channa punctatus* (Bloch) subjected to multistress with an organophosphate pesticide coupled with challenge of aeromonads. *Animal Biology Journal*, 1(3): 127-140. ISSN: 1949-498X.
4. **Ghosh, R.** and Homechaudhuri, S. (2010). Analysis of selected blood parameters in the tropical freshwater fish *Channa punctatus* (Bloch) following artificial inoculation of *Aeromonas salmonicida* and *Aeromonas hydrophila*. *Indian Journal of Fisheries*, 57(2): 77-83. ISSN: 0970-60141.
5. Bhattacharyya, M., Gangopadhyay, K., **Ghosh, R.** and Homechaudhuri, S. (2011). Analysis of blood chemistry and flow cytometry of gonadal cell cycle during reproductive cycle of *Anabas testudineus*. *Toxicological & Environmental Chemistry*, 93(1): 102-109. ISSN: 0277-2248.
6. **Ghosh, R.,** Chakrabarty, M. and Homechaudhuri, S. (2011). Analysis of haemopoietic cells, blood variables and histopathological changes in *Channa punctatus* (Bloch) following experimental inoculation of two strains of aeromonads. *Indian Journal of Animal Sciences*, 81(6): 641-647. ISSN: 0367-8318.
7. **Ghosh, R.** and Homechaudhuri, S. (2011). Aeromonads-induced Alterations in Activities of Catalase, Alkaline Phosphatase and Acid Phosphatase in the Freshwater Fish *Channa punctatus* (Bloch). *Science & Culture*, 77 (5-6): 222-225. ISSN: 0036-8156.
8. **Ghosh, R.** and Homechaudhuri, S. (2011). Ultrastructure and Distribution of Immunopotent Leucocytes in an Air-breathing Fish, *Heteropneustes fossilis* (Bloch). *Animal Biology Journal*, 2(2): 77-86. ISSN: 1949-498X.
9. **Ghosh, R.** and Homechaudhuri, S. (2012). Transmission electron microscopic study of renal haemopoietic tissues of *Channa punctatus* (Bloch) experimentally infected with two species of aeromonads. *Turkish Journal of Zoology*, 36(6): 767-774. ISSN: 1300-0179.
10. Datta Ray, S., **Ghosh, R.,** Maitra, B. and Homechaudhuri, S. (2013). Molecular Detection of bacterial pathogen in fish and study of histopathology and haemopoietic profiles as biomarker. In: *Advances in Fish Research*, (Goswami, U. C. Ed.)pp. 142-157, Vol 6(9), Narendra Publishing House, Delhi, India.
11. Datta Ray, S., **Ghosh, R.** and Homechaudhuri, S. (2015). Potentiality of bacterial pathogens including invasive exotic species as threat to indigenous fish species. *Proceedings of the Zoological Society*. 68(1): 84-90. ISSN: 0373-5893.
12. **Ghosh, R.** and Homechaudhuri, S. (2015). Dynamics of leucocytic and eruthrocytic variables in relation to seasonal cycle in adult *Channa punctatus* (Bloch). *Global Journal of Biology, Agriculture & Health Sciences*, 4(2): 88-93. ISSN: 2319-5584.

13. Gupta, S. and **Ghosh, R.** (2018). Acute toxicity of hexavalent chromium in adult *Channa punctatus* (Bloch, 1793) with regard to changes in erythrocytic and leucocytic profiles. *International Journal of Life Sciences Research*, 6(3): 239-248. ISSN: 2348-313X.

14. **Ghosh, R.** and Homechaudhuri, S. (2018). Seasonal disease occurrence, mortality and survival of adults and fingerlings of *Channa punctatus* (Bloch) by artificial inoculations of two strains of aeromonads. In: *Contemporary Health Issues and Environmental Impact* (Bose, M; Aditya (Bandhopadhyay), S; Poddar, S. eds.), pp. 84-92, Lincoln University College, Malaysia. ISBN: 978-967-10937-9-5.

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Social Media details: NA

Professional Memberships and Activities:

- Life Member, Zoological Society of Calcutta, Kolkata, India
- Life Member, The Indian Science Congress Association, Kolkata

Related Links:

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