Curriculum Vitae

Personal Details:

Name: DR. SAUGATA GHOSH

Address: Department of Zoology, APC Roy Govt College,

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Designation: Assistant Professor of Zoology (Stage 3)

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Date of Birth: 04/10/1980

Education and Qualification:

- Graduated in Zoology (Hons) with 1st Class (Distinction Marks) from Siliguri College, Siliguri in 2001.
- Post-Graduated in Zoology (Specialization in Immunology and Cell Biology) with 1st class (Distinction Marks) from University of North Bengal, Siliguri in 2003.
- Obtained the Degree of Bachelor Education (B.Ed.) with 1st Class from Siliguri B.Ed. College, Siliguri in 2005.
- Obtained the Ph. D. Degree from the Department of Zoology, University of North Bengal in 2023.

Other Qualifications:

1. Qualified GATE 2004.
2. Qualified CSIR-UGC-NET held on June, 2004.
3. Qualified CSIR-UGC-NET held on June, 2005.

Medals and Achievements:

- Awarded University Medal for securing 1st class first in B.Sc. (Honours) (Zoology) Examination 2001
- Awarded University Medal for securing 1st class first in M.Sc. (Zoology) Examination 2003

Teaching Experience:

1. Lecturer in Zoology in Raiganj University College, Raiganj from 16/09/2006 to 19/07/2007
2. Lecturer in Zoology in ABN Seal College, Cooch Behar from 20/07/2007 to 21/07/2010
3. Assistant professor (Stage 1) in APC Roy Govt. College from 22/07/2010 till date

Research Experience:

I have an experience on working in the field of Insect Immunity. I have worked on the characterization of haemolymph of *Antheraea asssama*, *Hyposidra talaca* and *Hyposidra infixaria.* I studied cellular, humoral as well as metabolic defense of insects against pesticides and entomopathogenic challenge. I have completed two research projects as well as submitted my Ph.D. thesis in this area. I have also studied the immune system of fish, *Labeo rohita* and *Cirrhinus mrigala.*

Publications:

1. **Ghosh S.** 2008. Morpholgical & histological study of lymphoid organs (head kidney & spleen) of Rohu (*Labeo rohita*) & Mrigal (*Cirrhinus mrigala*). BN Seal J. Sci. (0975-5624) 1:67-73.

2. **Ghosh S.** 2015. Total count of hemocytes in lepidopteran insect larvae. In: Chakrabarti S, Chakraborti S, Ghosh S, Sarker M, editors. Contemporary Laboratory and Field Experiments in Zoology. Kolkata: Pages & Chapters. p. 158–160.

3. **Ghosh S**, Prasad AK, Mukhopadhyay A. 2018. Effects of feeding regimes on hemocyte counts in two congeners of Hyposidra (Lepidoptera: Geometridae). Entomol Gen. (0171-8177) 38(1):73–82. doi:10.1127/ENTOMOLOGIA/2018/0377.

4. **Ghosh S**, Sarkar S, Sarkar D, Saha P, Chowdhury A SM. 2019. Comparison of the Effect of Two Different Synthetic Acaricides on the Population Dynamics of Red Spider Mite (Oligonychus coffeae) in Two Different Tea Gardens of Terai Region, Darjeeling District, West Bengal, India. J Biol Chem Res. (0970-4973) 36(1):110–115.

5. **Ghosh S**. 2021a. Determination of the leaf consumption by different larval stages of defoliating major tea-pest Hyposidra talaca Walker (Lepidoptera :Geometridae), under the treatment of a chemical pesticide , Emamectin Benzoate and a biopesticide, Bacillus thuringiensis. Res J Agric Sci An Int J. (0976-1675) 12(3):993–998.

6. **Ghosh S**. 2021b. Leaf-dip and diet incorporation bioassays for determining the lethal concentrations of a chemical pesticide and a biopesticide against Hyposidra talaca Walker (Lepidoptera : Geometridae), a Major Defoliating Pest of Tea , from Darjeeling-Terai , W.Bengal. Res J Agric Sci An Int J. (0976-1675) 12(2):504–508.

7. **Ghosh S**, Ghosh B, Bahadur M. 2023. Assessment of toxic effects of cypermethrin and nucleopolyhedrovirus in Hyposidra talaca Walker (Lepidoptera: Geometridae). Int J Zool Investig. (2454-3055) 9(1):578–584.

Research Project Undertaken:

Sl No.	Title of the project	PI/Co-PI	Duration	Funding Agency	Amount
1.	Studies on Immune System of Muga Silk Worm, *Antheraea assama* Westwood (Lepidoptera: Saturniidae) by the characterization of haemolymph	Principal Investigator	November 2009 to July 2010	University Grant Commission (Minor Research Project) (Vide Memo No F. PSW-112/09-10 (ERO) dated 8th October, 2009	Sanctioned: Rs. 1,58,000/- Expenditure: Rs. 1,09,000/-
2.	A study on the cellular and metabolic defense system of *Hyposidra talaca*, a defoliating lepidopteran pest of tea from Darjeeling Terai, against the pesticide-challenge	Principal Investigator	July, 2019 to May, 2023	Science and Technology and Biotechnology Department, Government of West Bengal (R& D Project) 82 (Sanc.)/ST/P/ S&T/2G-13/2018 dated 18/06/2019	Sanctioned: Rs. 6,75,000/- Expenditure: Rs. 6,75,000/-

Conference attended:

1. **Ghosh S**. 2015. Awareness for protecting animals in Ancient India: as depicted in Manusmriti. 22nd West Bengal State Science and Technology Congress-2015. Department of Science and Technology, Govt. of West Bengal and West Bengal State Council of Science and Technology. 28th February and 1st March, 2015

2. Sarker M, **Ghosh S.** 2012. Preliminary Observations on some Hydrobiological Factors of New Chamta River of Darjeeling District. UGC sponsored national seminar: Anthropogenic toxicants, Green Chemistry, Biodiversity & Sustainable development: An interdisciplinary approach. Department of Zoology, P.D.Womens College, Jalpaiguri in collaboration with Jalpaiguri Science & Nature Club, Jalpaiguri. 13th and 14th March, 2012.

3. **Ghosh S**, Mukhopadhyay A. 2017. The hemocyte types and changes in hemocyte counts of Hyposidra talaca (Lepidoptera: Geometridae) during post-embryonic development. National Conference- ZooCon 2017: Animal Science in 21st Century. Department of Zoology, University of North Bengal, West Bengal, India. 11th-12th February, 2017.

4. **Ghosh S**. 2017. The hemocyte types and comparison of hemocyte counts in two congeners of Hyposidra (Lepidoptera: Geometridae). International Zoology Seminar. Post Graduate Department of Zoology, Darjeeling Govt. College, Darjeeling, West Bengal, India. 12th-13th May, 2017.

5. **Ghosh S**. 2019. A Study on the consumption of tea crop by the defoliating pest (*Hyposidra talaca* Walker) under the treatment of two pesticides. International Seminar on Current Avenues in Microbial & Plant Sciences, Department of Botany, University of Gour Banga, Malda, West Bengal, India. 23rd -25th February, 2019.

6. **Ghosh S**. 2020. Effect of the diet on the hemocyte counts of *Hyposidra talaca* (Lepidoptera: Geometridae), a major defoliating pest of tea. International Seminar on 'Frontiers of Tea Science'. Department of Tea Science, University of North Bengal, West Bengal, India. 6th March, 2020.

7. **Ghosh S**. 2021. Determination of the Lethal Concentrations of a Chemical- and a Bio-Pesticide against *Hyposidra talaca*, a Major Tea Pest to Assay the Effectiveness of these Pesticides at Field Concentrations. National Web-based Conference on 'Environmental determinism, Diverse Pollutions, Sources, and Controlling Management through Sciences and Humanities'. Alipurduar University, West Bengal, India. 22nd -23rd March, 2021.

8. **Ghosh S,** Bahadur M. 2021. Comparison of the haemocyte counts in different larval stages of two congeners of *Hyposidra* (Lepidoptera: Geometridae). An Interdisciplinary International Web-seminar On Modern Trends on Humanities, Science & Technology and Social Sciences For Sustainable Development. Acharya Prafulla Chandra Roy Government College Siliguri

Himanchal Vihar, Matigara, Siliguri, West Bengal, India in Collaboration with UGC-Human Resource Development Centre, The University of North Bengal, Darjeeling, West Bengal, India. 23rd -24th September, 2021.

9. **Ghosh S,** Bahadur M. 2021. The changes in hemocyte counts in different larval stages of *Hyposidra talaca* reared on synthetic diet. National e-Conference on Biodiversity Building and Natural Resource Management (NC BBNRM - 2021). Department of Botany, Seva Bharati Mahavidyalaya Kapgari, Jhargram, West Bengal and Department of Botany, Government General Degree College Lalgarh, Jhargram, West Bengal in Collaboration with Department of Zoology; Department of Botany; & Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women (Deemed to be University) Coimbatore, Tamil Nadu, India. 22nd -23rd December, 2021.

Research guidance:

M.Sc. Dissertation (Reg. No. 133-1122-0386-15): The Potential Causes Behind the Changes in the Behavioral Patterns of the Indian One Horned Rhinoceros & Measures Taken for the Rhinoceros Conservation in Jaldapara National Park. Department of Environmental Science, Calcutta University.