

Curriculum Vitae

Personal Details:

Name: SAUGATA GHOSH

Address: Department of Zoology, APC Roy Govt College,
Himachal Bihar, Siliguri- 734010

Designation: Assistant Professor of Zoology (Stage 3)

Email: sgwbbs@gmail.com

Mobile: 9832077221, 8250317595

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.

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, CoochBehar 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 assama*, *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. Morphological & 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:

S/No.	Title of the project	PI/Co-PI	Duration	Funding Agency	Amount
1.	Studies on Immune System of Muga Silk Worm, <i>Antheraea assama</i> 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 8 th October, 2009	Sanctioned: Rs. 1,58,000/- Expenditure: Rs. 1,09,000/-
2.	A study on the cellular and metabolic defense system of <i>Hyposidra talaca</i> , 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.