

BIODATA



- Name** : Dr. Sanjib Saha M.Sc.,M.Ed.,Ph.D. (CU)
- Designation** : Assistant Professor in Zoology (till date)
- Communication** : zoomscsaha@gmail.com
- Academic Qualification** : B.Sc. in Zoology from Calcutta university – 2001
M.Sc. in Zoology from Calcutta University – 2003
Ph.D. in Science (Zoology) from Calcutta University – 2010
- Teaching Experience** : Guest Lecturer in Bankim Sarder College (CU) and
Guest Lecturer in Bangabasi Morning College (CU)
- Fellowship / Distinctions** : 1. Award of Excellence for presenting paper in 20thWBSSTC
BESU 2013, Shibpur, W.B., India.
2. Science Academies' Research Fellowship (SRFIASC,
Bangalore) – 2013
3. Project Fellowship, UGC – 2007
- Research Experience** : Research Assistant (CU),– 2006 (Project from DRDO,DRL India),
Project fellow in CU, - 2007.
- Editorial Member & Reviewer** : International Journal of Adv. Res. Biol Sci. (ISSN 2348-8069)
American J. of Zoological Research (ISSN 2373-678X)
- Member / Fellow** : Fellow in Academy of Science (AW) – 2012
Fellow of Society of Environmental Sciences – 2020
Associate of Academy of Sciences for animal welfare, India.
Life member of Society of Toxicology, India (STOX).
Life member of The Zoological Society, Kolkata
Life member of Academy of Sciences animal welfare, India.
- Abstracts in Seminar** : 14, International = 5 National = 6 State = 3
- Published Paper** : 13, International = 1 National = 12
- Published Chapter in Book** : 5, International = 3 National = 2
- Published Book** : 5, International = 3 National = 2
- Project** : Minor Project submitted (History of Science Department, Asiatic Society, Kolkata)

A) Published Book / Monograph (4):

1. Saha, Sand Pradhan, D. 2020. MCQ Zoology, Guide for Competitive Examination. Techno World Publication, Kolkata, West Bengal, **India**
2. **Saha, S.** 2012. Hematopoiesis and wound repairment of Crustacea. LAP LAMBERT Academic Publishing GmbH & Co. KG., **Germany**.
3. **Saha, S.** 2012. Environmental Education. APH Publishing Corporation, New Delhi, **India**. (Educational Book)
4. **Saha, S.** 2011. Indian education in vision of Swami Vivekananda: a review. VDM Verlag Dr. Muller GmbH & Co. KG., **Germany** (Educational Book).
5. Ray, S. and **Saha, S.** 2011. Arsenic toxicity of estuarine mudcrab. LAP LAMBERT Academic Publishing GmbH & Co. KG., **Germany**.

B) Published chapter in book (5):

6. **Saha, S.** 2015. Defence mechanisms of Crustacea against pathogenic and nonpathogenic infection. In Biswas, S., Mitra, M. K., Bar, R. (ed.) Environmental impacts on health: towards a better future. Readers Service Publication, **Kolkata, India**, pp. 440 – 458.
7. **Saha, S.**, Ray, M. and Ray, S. 2011. Effect of sublethal concentration of arsenic on hemocyte density in edible crab, *Scylla serrata*. In: Jose Rosa Gomes (Ed.), Animal Science and Issues. Nova Publisher, **New York, USA**, pp. 27 – 36.
8. Ray, S., **Saha, S.** and Ray, M. 2012. Immunotoxicological reactivity of hemocyte of juvenile mudcrab of Sundarbans biosphere reserve of India. In: David L. Eder (Ed.), Aquatic animals: Biology, Habitats and Threats. Nova Publisher, **New York, USA**, Chapter 2: pp. 53 – 76.
9. Ray, S., Ray, M. and **Saha, S.** 2011. Aggregation and chemical induced interference of aggregation of hemocytes of Indian mud crab exposed to arsenic. In: Jose Rosa Gomes (Ed.), Animal Science and Issues. Nova Publisher, **New York, USA**, pp. 45 – 55.
10. **Saha, S.** Ray, M. and Ray, S. 2008. Nitric oxide generation by immunocytes of mud crab exposed to sodium arsenite. In Zoological Research in Human Welfare. **ZSI, Kolkata Pub.**, paper 44: 425 – 428.

C) Published research papers in Journal (14):

11. **Saha, S.** and Biswas. Studies on the Zoological Taxonomy in Ancient India: A Glorious Past. *Indian J. History of Science*, (Communicated).

12. **Saha, S.** and Ray, S. 2014. Sublethal effect of arsenic on oxidative stress and antioxidant status in the edible crab, *Scylla serrata* in India. *Clean-soil, air, water*, **42(9)**: 1216 – 1222.
13. **Saha, S.** 2013. Arsenic contaminated villages of Ranaghat in West Bengal (India) are under threat. *International Journal of Integrative sciences, Innovation and Technology*, **2(3)**: 6 -12.
14. **Saha, S.** 2012. Immuno recognition and detoxification mechanisms of Crustacea against biounsafe environment. *Journal of Ecotoxicology and Environmental Monitoring*, **22(6)**: 529 – 539.
15. **Saha, S.** 2012. Wound Repairment: Immune Machinery of Aquatic Invertebrate. *International Journal of Plant, Animal and Environmental Sciences*, **2(4)**: 18 – 39 (Impact factor – 0.297, Year – 2012).
16. **Saha, S.** 2011. Innate immune source and functional machinery in decapods of Crustacea. *Indian Journal of Fundamental and Applied Life Sciences*, **1(3)**: 310 – 324.
17. **Saha, S.**, Ray, M. and Ray, S. 2010. Behavioural shift of estuarine mudcrab as biomarker of arsenic exposure in Sundarbans estuary of West Bengal. *Journal of Applied and Natural Science*, **2(2)**: 258 – 262.
18. **Saha, S.**, Ray, M. and Ray, S. 2010. Shift in cytoarchitecture of immunocytes of mudcrab exposed to arsenic. *International Journal of Applied Biology and pharmaceutical Technology*, **1(2)**: 234 – 246.
19. **Saha, S.**, Ray, M. and Ray, S. 2010. Screening of phagocytosis and intrahemocytotoxicity in arsenic exposed crab as innate immune response. *Asian Journal of Experimental Biological Sciences*. **1(1)**: 47 – 54.
20. **Saha, S.**, Ray, M. and Ray, S. 2009. Activity of Phosphatase in the Hemocytes of Estuarine edible mud crab, *Scylla serrata* Exposed to Arsenic. *Journal of Environmental Biology*, **30(5)**: 655 – 658.
21. **Saha, S.**, Ray, M. and Ray, S. 2009. Recognition of antilymphocyte and antihemocyte sera by crab (*Scylla serrata*) hemocytes exposed to arsenic. *Research in Environment and Life Science*, **2(1)**: 1 – 6.
22. **Saha, S.**, Ray, M. and Ray, S. 2008. Kinetics of nonself surface adhesion and phagocytic response of hemocyte of *Scylla serrata* exposed to sodium arsenite. *Toxicology International*, **15(1)**: 15 – 19.
23. **Saha, S.**, Ray, M. and Ray, S. 2007. Analyses of total count of hemocytes of estuarine crab, *Scylla serrata* under acute arsenic exposure. *Icfai Journal of Life Science*, **1(3)**:75 – 78.
24. **Saha, S.** and Ray, S. 2006. Enumeration and hemocyte profile of the estuarine mud crab, *Scylla serrata*. *Environment and Ecology*, **24S (3A)**: 818 – 819.

D) Published article in Bengali magazine (2):

- **Saha, S.** 2002. Gayan-Bigyaner ak pithostan – Bharatborsho (Bengali). In: Prof. Sumit Homechowdhury (Ed.), 'Spandan', Reunion Committee, Dept of Zoology, University of Calcutta, **Kolkata, India**, pp. 12 – 14.
- **Saha, S.** 2012. Manab Sobhyater Rus – Arsenic. *Mashik Basumati*, **1(5):** 24 – 27 (Magazine of Govt of W.B.).

E) Abstracts presented in seminar / conference (14):

1. Saha, S. and Biswas. 2019. Immunotoxicity of Invertebrate is an Emerging Biomarker Techniques in one day state level seminar on Urbanization, changing daily life and prevalence of lifestyle diseases: An emerging issue at Egra S. S. B. college, **Egra, Purba Medinipur, WB, India**, 18th April, P. 36.
2. Saha, S. and Biswas. 2017. Oxidative stress and Antioxidative defence mechanisms of Crustacea against pathogenic infection and environmental xenobiotics in two days UGC sponsored National level seminar on Global warming and bio-diversity loss at Egra S. S. B. college, **Egra, Purba Medinipur, WB, India**, 18th – 16th February, P. 58.
3. **Saha, S.** 2015. Defence mechanisms of Crustacea against pathogenic and nonpathogenic infection in the 'UGC sponsored National Conference on Environmental impacts on health: towards a better future' at Bangabasi Morning College (BMC), **Kolkata, W.B., India**, 27 – 28 March, p. 24.
4. **Saha, S.** and Biswas, S. 2015. Biodiversity, threats and conservation of Sundarbans crabs. Proceeding in the '22th West Bengal State Science and Technology congress' (WBSSTC) at North Bengal University, (NBU), **Darjeeling, W.B., India**, 28 February – 1 March, p. GE 34.
5. **Saha, S.** and Biswas, S. 2013. Immuno defence mechanisms of *Scylla serrata* against pathogenic infection. Proceeding in the '20th West Bengal State Science and Technology congress' at Bengal Engineering and Science University (BESU), **Shibpur, W.B., India**, 28 February – 2 March, p. 98.
6. **Saha, S.**, Ray, M. and Ray, S. 2011. Healing of experimental wound of estuarine crab exposed to arsenic. Proceeding in the 'International Conference on Biodiversity and Aquatic Toxicology', **Vijayawada, AP, India**, 12 – 14 February p. 131.
7. **Saha, S.**, Ray, M. and Ray, S. 2008. Interference of aggregation of hemocytes of *Scylla Serrata* under the exposure of arsenic. Proceeding in International congress of environmental research, **Goa, India**, November, 18 – 20.

8. **Saha, S.**, Ray, M. and Ray, S. 2007. Immunotoxicological response of hemocyte of edible mud crab exposed to arsenic. Proceeding in XXVII Annual Conference of Society of Toxicology, India (STOX) and International Workshop on Toxicology, **Bangalore, Karnataka, India**, October 6-12, p. 86.
9. **Saha, S.**, Ray, M. and Ray, S. 2007. Arsenic induced generation of nitric oxide in the immunocytes of mud crab. Proceeding in National Seminar on Dimension in Zoological Research in Human Welfare. **Kolkata, W.B., India**, March 23 – 25, p. 77.
10. **Saha, S.** and Ray, S. 2006. Fluctuations of total count of hemocytes of mud crab exposed to arsenic. Proceeding in International Conference on Toxicology, Toxicogenomics and Occupational Health (ICTTOH), **Gwalior, M.P., India**, October 9 – 11, pp. 72 – 73.
11. **Saha, S.** and Ray, S. 2005. Arsenic induced alteration of hemocyte count in estuarine mud crab *Scylla serrata*. Proceeding in International Conference on Toxicology, Environmental and Occupational Health (ICTEOH), **Lucknow, U.P., India**, November 14 – 17, pp. 7-8.
12. Chakraborty, S., **Saha, S.**, Mukherjee, S., Mondal, C., Paik, D. and Ray, S. 2005. Monitoring of heart rate of an edible fresh water bivalve exposed to sodium arsenite and sodium hydroxide. Proceeding in National Seminar on New Dimension in Environmental Sciences, **Bhopal, M.P., India**, March 5-6, p. 9.
13. Mukherjee, S., **Saha, S.**, Chakraborty, S., Mondal, C., Paik, D. and Ray, S. 2005. Azadirectin and arsenic induced alteration of hemocyte count in fresh water bivalve, *Lamellidens marginalis*. Proceeding in National Seminar on New Dimension in Environmental Sciences, **Bhopal, M.P., India**, March 5-6, p. 11.
14. Mondal, C., **Saha, S.**, Chakraborty, S., Mukherjee, S., Paik, D. and Ray, S. 2005. Recovery of hemocyte density of *Bellamya bengalensis* exposed to Fenvalerate. Proceeding in National Seminar on New Dimension in Environmental Sciences, **Bhopal, M.P., India**, March 5-6, p. 15.