



ALOKE SAHA

Nationality: Indian

Date of birth: 25/11/1999

Gender: Male

Father's Name: Jogesh Saha

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Address: Kalinagar Chatterjee Bari Lane, Krishnagar,
District- Nadia, Pin-741101, P.S.-Kotwali,
West Bengal, India.

CAREER OBJECTIVE

To work in a challenging environment with a scope of future progress. I would like to welcome the chance to work as a part of a dynamic working team where I could make a significant contribution while developing my skills yet further to make a fruitful contribution in the field of Biological Sciences research for human welfare.

EDUCATIONAL QUALIFICATION

Doctor of Philosophy (Ph.D.) [2023- Ongoing]

University of Kalyani, Kalyani, Nadia

Field of Study- Liver Cancer

Masters of Science (M.Sc.) [2020- 2022]

University of Kalyani, Kalyani, Nadia

Field of Study- Zoology (Specialization: Cell & Developmental Biology)

Marks Obtained- 84.25 (CGPA: 8.97) (First in 1st Class- Gold Medallist)

Bachelor of Science (B.Sc.) Honours [2017-2020]

Krishnagar Govt. College, Krishnagar, Nadia

University of Kalyani, Kalyani, Nadia

Marks Obtained- 86.625%

Higher Secondary [2015-2017]

Krishnagar High School, Krishnagar Nadia

West Bengal Council of Higher Secondary Education

Marks obtained- 89.2%

Secondary Examination (Madhyamik) [2015]

Krishnagar High School, Krishnagar Nadia

West Bengal Board of Secondary Education

Marks obtained- 86%

ACHIEVEMENTS & AWARDS

- Qualified **DBT BET JRF** (Category I) in 2023
- Qualified **GATE-XL** in 2023
- Qualified **WB-SET** in 2022
- Qualified **CSIR NET-LS** (AIR-128) in 2022
- Qualified **GATE-XL** in 2021
- Qualified **JAM-BT** in 2020
- Provisionally selected for **Inspire Fellowship** at Level 1
- Awarded **Inspire Scholarship (SHE- Scholarship for Higher Education)** in 2017 by the **Department of Science and Technology (DST), India**
- Received **DST Merit Certificate** (For being in the top 1% in the 12th standard board examination (WBCHSE), 2017)
- Received **1st Prize in Poster Presentation** entitled “*Environment Day Environment and Best Practices*” organised by Department of Botany, R. K. Talreja College of Arts, Science & Commerce, Ulhasnagar, Maharashtra, Pin- 421003 (5th June, 2020).
- **Prof. Debiprasad Banerjee Endowment Medal**: Received for securing the highest rank in the M.Sc. Zoology Examination, 2022.
- **Satish and Tulasi Manna Memorial Endowment Award**: Received for securing the highest rank in the M.Sc. Zoology Examination, 2022.
- **Trilochan Jana & Champa Jana Memorial Medal**: Awarded the Gold Medal for securing the highest rank in M.Sc. Zoology, 2022.
- **Best Oral Presentation Award**: Awarded at the International Conference on “Frontiers in Science: An Integrative Approach in Solving Global Challenges” (Hybrid

Mode), organized by Krishnagar Government College in association with the IQAC (September 10–11, 2025). Oral Presentation Title:- Nanodiamond-Conjugated Harmine: A Promising Nanoformulation for Enhanced Anticancer Efficacy Against Liver Cancer Cells.

PUBLICATION

- **Saha, A.**, Mukherjee, P., Roy, K., Sen, K., & Sanyal, T. (2022). A review on phytoremediation by aquatic macrophytes: A natural promising tool for sustainable management of ecosystem. *International Journal of Experimental Research and Review*, 27, 9-31. <https://doi.org/10.52756/ijerr.2022.v27.002> (IF: 0.3)
- Deb, H., **Saha, A.**, Deore, S., & Sanyal, T. (2022). Elephant Corridor loss due to anthropogenic stress – a study of change in forest cover using satellite data in the Sonitpur District, Assam, India. *Journal of Wildlife and Biodiversity*, 6(X). <https://doi.org/10.5281/zenodo.6627395> (IF: 0.7)
- **Saha, A.**, Samadder, A., & Nandi, S. (2022). Stem Cell therapy in combination with naturopathy: Current progressive management of diabetes and associated complications. *Current Topics in Medicinal Chemistry*, 23, 1–41. <https://doi.org/10.2174/1568026623666221201150933> (IF: 3.570)
- Mukherjee, P., Sarkar, G., **Saha, A.**, & Sanyal, T. (2022). Extensive study and data collection on the pituitary gland: A promising prospect revealed by surveying the fish market during the monsoon season. *International Journal of Experimental Research and Review*, 29, 73–79. <https://doi.org/10.52756/ijerr.2022.v29.008> (IF: 0.3)
- Dawn, N., Ghosh, T., Ghosh, S., **Saha, A.**, Mukherjee, P., Sarkar, S., Guha, S., & sanyal, T. (2023). Implementation of Artificial Intelligence, Machine Learning, and Internet of Things (IoT) in revolutionizing Agriculture: A review on recent trends and challenges. *International Journal of Experimental Research and Review*, 30, 190-218. <https://doi.org/10.52756/ijerr.2023.v30.018> (IF: 0.3)
- **Saha, A.**, Pushpa, Moitra, S., Basak, D., Brahma, S., Mondal, D., Molla, S. H., Samadder, A., & Nandi, S. (2023). Targeting cysteine proteases and their inhibitors to combat trypanosomiasis. *Current Medicinal Chemistry*, 30, 1–1. <http://dx.doi.org/10.2174/0929867330666230619160509> (IF: 4.1)

- **Saha, A.** (2023). Circular Economy Strategies for Sustainable Waste Management in the Food Industry. *Journal of Recycling Economy & Sustainability Policy*, 2(2), 1–16. Retrieved from <https://respjournal.com/index.php/pub/article/view/17>
- Mukherjee, P., **Saha, A.**, Sanyal, T., & Sen, K. (2023). Inhibition of secretase: A promising technique for Alzheimer's disease patients. *International Journal of Advanced Research Trends in Science*, 2(1), 31-35. https://ijarts.aura-international.org/IJARTS_23106.pdf
- **Saha, A.**, & Sarkar, C. (2022). Protecting The Precious Sundarbans: A Comprehensive Review of Biodiversity, Threats and Conservation Strategies In The Mangrove Ecosystem. *Conscientia*, 10, 60-80.
- Sanyal, T., **Saha, A.**, & Mukherjee, P. (2023). Activities of fisheries co-operative societies in India to boost up and optimise the resources and economy of farmers: a review. *Journal of Fisheries*, 11(2), 112301. <https://doi.org/10.17017/j.fish.487>
- Dawn, N., Ghosh, S., **Saha, A.**, Chatterjee, S., Ghosh, T., Guha, S., Sarkar, S., Mukherjee, P., & Sanyal, T. (2023). A review on digital twins technology: A new frontier in agriculture. *Artificial Intelligence and Applications*, 2(4), 250–262. <https://doi.org/10.47852/bonviewAIA3202919>
- **Saha, A.**, Pushpa, Bagchi, S. R., Samadder, A., & Nandi, S. (2024). To explore potential natural inhibitors of cysteine proteases to combat human african trypanosomiasis and chagas disease. *Current Medicinal Chemistry*, 31. <https://doi.org/10.2174/0109298673311070240807104229>
- **Saha, A.**, Roy Choudhury, S., & Bhadra, K. (2024). A review on insecticidal efficacy of phytochemicals on stored grain insect pests. *Notulae Scientia Biologicae*, 16(3), 11939. <https://doi.org/10.55779/nsb16311939>
- **Saha, A.**, Sarkar, P., Mukherjee, D., & Bhadra, K. (2025). Targeting chemical-induced hepatocellular carcinoma: Ameliorative potential of natural compounds with focus on beta-carbolines. *Mini-Reviews in Medicinal Chemistry*, 25. <https://doi.org/10.2174/0113895575415295250922074231>

BOOK CHAPTER

- **Aloke Saha**, Susmita Moitra and Tanmay Sanyal (2022). Anticancer and Antidiabetic Potential of Phytochemicals Derived from *Catharanthus roseus*: A Key Emphasis to Vinca Alkaloids. © International Academic Publishing House (IAPH), B. Sarkar

- (eds.), *The Basic Handbook of Indian Ethnobotany and Traditional Medicine*, Vol. 1, pp. 01-19. DOI: <https://doi.org/10.52756/bhietm.2022.e01.001>
- Suparna Raha, Pronoy Mukherjee, **Aloke Saha** and Tanmay Sanyal (2022). *Aquatic Macrophytes: An Untold and Valuable Panoramic Resource of Ethnomedicine*. © International Academic Publishing House (IAPH), B. Sarkar (eds.), *The Basic Handbook of Indian Ethnobotany and Traditional Medicine*, Vol. 1, pp. 46-61. DOI: <https://doi.org/10.52756/bhietm.2022.e01.004>
 - Pronoy Mukherjee, **Aloke Saha**, Koushik Sen, Hadi Erfani, Nithar Ranjan Madhu and Tanmay Sanyal (2022). *Conservation and prospects of Indian Lacustrine fisheries to reach the Sustainable Developmental Goals (SDG 17)*. © International Academic Publishing House (IAPH), Dr. N. R. Madhu & Dr. B. K. Behera (eds.), *A Basic Overview of Environment and Sustainable Development*, pp. 98-116. ISBN: 978-81-957954-2-0. DOI: <https://doi.org/10.52756/boesd.2022.e01.010>
 - Suvabrata Khatua, Nithar Ranjan Madhu, Sudipta Kumar Ghorai, Susmita Moitra, **Aloke Saha**, Sudipa Mukherjee Sanyal (2023). *Distribution, Burrowing Adaptations and Threats of Dune Crickets with Special Reference to Schizodactylus monstrosus (Dury)*. © International Academic Publishing House (IAPH), Shubhadeep Roychoudhury, Tanmay Sanyal, Koushik Sen & Sudipa Mukherjee Sanyal (eds.), *A Basic Overview of Environment and Sustainable Development [Volume: 2]*, pp. 213-230. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.014>
 - Md. Abu Imran Mallick, Riya Malakar, Narayan Ghorai, **Aloke Saha**, Pronoy Mukherjee, Tanmay Sanyal (2023). *Revolutionizing Leather Industry Wastewater Treatment: A Game-Changing Approach for Sustainable Environmental Management*. © International Academic Publishing House (IAPH), Shubhadeep Roychoudhury, Tanmay Sanyal, Koushik Sen & Sudipa Mukherjee Sanyal (eds.), *A Basic Overview of Environment and Sustainable Development [Volume: 2]*, pp. 390-407. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.027>
 - Md. Abu Imran Mallick, Rishab Nath, Narayan Ghorai, Samprita Mishra, **Aloke Saha**, Sudipa Mukherjee Sanyal (2023). *Unlocking the Potential: A Comprehensive Review of Environmentally Sustainable Applications for Agro-Based Spent Mushroom Substrate (SMS)*. © International Academic Publishing House (IAPH), Shubhadeep Roychoudhury, Tanmay Sanyal, Koushik Sen & Sudipa Mukherjee Sanyal (eds.), *A*

- Basic Overview of Environment and Sustainable Development [Volume: 2]*, pp. 434-477. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.029>
- Susmita Moitra, **Aloke Saha**, Sudipa Mukherjee Sanyal, Madhuban Datta (2023). Securing Coral Reefs: Integrating Sustainable Development Goals in the Anthropocene. © International Academic Publishing House (IAPH), Shubhadeep Roychoudhury, Tanmay Sanyal, Koushik Sen & Sudipa Mukherjee Sanyal (eds.), *A Basic Overview of Environment and Sustainable Development [Volume: 2]*, pp. 478-505. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.030>
 - Soumya Chatterjee, Pronoy Mukherjee, **Aloke Saha**, Koushik Sen, Raju Das, Tanmay Sanyal (2023). Utilizing Climate Physics: Advancing SDG 13 with Integrated Low Carbon Energy from Diverse Sources – A Glimpse Ahead. © International Academic Publishing House (IAPH), Shubhadeep Roychoudhury, Tanmay Sanyal, Koushik Sen & Sudipa Mukherjee Sanyal (eds.), *A Basic Overview of Environment and Sustainable Development [Volume: 2]*, pp. 506-519. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.031>
 - Anirban Pandey, **Aloke Saha**, Biswajit (Bob) Ganguly, Roger I.C. Hansell, Tanmay Sanyal (2023). How Plastics Affect the Marine Environment: Its Sources, Threats, and Consequences, Potential Countermeasures for a Healthy Ocean Environment. © International Academic Publishing House (IAPH), Shubhadeep Roychoudhury, Tanmay Sanyal, Koushik Sen & Sudipa Mukherjee Sanyal (eds.), *A Basic Overview of Environment and Sustainable Development [Volume: 2]*, pp. 520-540. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.032>
 - **Saha, A.**, Sanyal, T., Mukherjee, P., Sen, K., Madhu, N.R. (2024). Response of Cellular Stress Toward the Hormetic Phytochemicals in Brain Aging. In: Pathak, S., Banerjee, A. (eds) *Neuroprotective Effects of Phytochemicals in Brain Ageing*. Springer, Singapore. https://doi.org/10.1007/978-981-99-7269-2_4
 - Das, S.K., Sen, K., Sanyal, T., **Saha, A.**, Madhu, N.R. (2024). Flavonoids: A Promising Neuroprotectant and Its Salutary Effects on Age-Related Neurodegenerative Disorders. In: Pathak, S., Banerjee, A. (eds) *Neuroprotective Effects of Phytochemicals in Brain Ageing*. Springer, Singapore. https://doi.org/10.1007/978-981-99-7269-2_11
 - **Saha, A.**, Jana, P., & Khatua, S. (2024). A protective role of ganoderma sp. On cardiovascular disease, atherosclerosis, and hypertension. In K. Acharya & S. Khatua,

Ganoderma (1st ed., pp. 102–126). CRC Press.
<https://doi.org/10.1201/9781003490258-6>

- **Saha, A., & Khatua, S.** (2024). Hypolipidemic and cholesterol-lowering effects of ganoderma. In K. Acharya & S. Khatua, Ganoderma (1st ed., pp. 189–214). CRC Press. <https://doi.org/10.1201/9781003354789-11>

➤ **PEER-REVIEW WORK**

- Diabetes & metabolic syndrome, Elsevier (2 Manuscripts)
- Journal of ethnopharmacology, Elsevier (3 manuscripts)
- Mini Reviews in Medicinal Chemistry, Bentham Science (12 Manuscripts)
- African Research Reports (1 Manuscript)
- Uttar Pradesh Journal of Zoology (1 Manuscripts)
- Archives of Current Research International (2 Manuscripts)
- International Journal of Environment and Climate Change (1 Manuscripts)

PROJECTS / FIELD WORKS

- **M.Sc. 4th Semester Dissertation (2022):** Stem Cell Therapy in Combination with Naturopathy: A Beginning of New Era Towards Progressive Management of Diabetes and Associated Complications
- **Field Report** for educational excursion to Daringbadi & Gopalpur, Odisha (2019): Marine animal diversity, Malacofaunal diversity, Floral diversity, Quadrat sampling, pitfall & light trap, Avifaunal diversity, Diversity of butterflies.
- **Field Report (2018):** Angiospermic flora of Krishnagar Govt. College & surroundings (includes medicinal importance and taxonomic hierarchy of more than 200 plants).
- **Field Report** for educational excursion to Digha (2018): Diversity of Fish fauna and marine animals.
- **Field Report** for Class 12th examination (2016): Survey on Birth Control Methods.

POSTER PRESENTATION

- **Saha, A.** (2020). “*Environment and Best Practices*” on the occasion of World Environment Day 2020 organised by Department of Botany R. K. Talreja College of Arts, Science & Commerce Ulhasnagar, Maharashtra, Pin- 421003 (5th June, 2020)

- **Saha, A.** (2020). *“March towards better future with clean environment: Best Environmental Practices to Reduce Pollution”* organised by Durgapur Government College & Durgapur Wildlife Information & Nature Guide Society (WINGS) in 2020
- **Saha, A. & Kakali Bhadra.** (2024). *Nanodiamonds in cancer therapy: Insights of targeted drug delivery.* Conference: DST-SERB Sponsored National conference on Zoology for Ecosystem and Human Health. At: Department of Zoology, University of Kalyani, West Bengal, India. <https://doi.org/10.13140/RG.2.2.13140.00647>
- **Saha, A. & Kakali Bhadra.** (2024). *Nanodiamond-Conjugated Harmine: A Promising Nanoformulation for Enhanced Anticancer Efficacy Against Liver Cancer Cells.* September 2025. Conference: Frontiers in Science: An Integrative Approach in Solving Global Challenges. At: Krishnagar Government College, Krishnagar, Nadia, PIN-741101.
- **Aloke Saha, Sreya Roy Choudhury, Debjani Mukherjee & Kakali Bhadra.** (2025). *Climate Change-Driven Microplastic Contamination and Its Role in Cancer Risk.* Conference: Two-Day National Conference on "Addressing Challenges and Showing Resilience against Climate Change in the Eastern Region of India". Jointly Organized by: DESKU EIACP PC-RP, ZSI EIACP PC-RP, BSI EIACP PC-RP, TERI EIACP PC-RP, Dept. of Economics, & Dept. of Zoology, University of Kalyani. Sponsored by: Ministry of Environment, Forest and Climate Change (MoEF&CC) Govt. of India.

COMPUTER SKILLS

I have done a Basic course of computer from Jawaharlal Nehru National Youth Computer Centre and got a certificate with more than 90% marks. I have also Excellent knowledge on MS-Word, MS-Excel, MS-Access, MS-Power Point, Email, Internet Browsing, **Adobe Photoshop, Adobe Pagemaker, Coreldraw Graphics Suite, Chemdraw, Video editing** etc.

EXTRACURRICULAR ACTIVITIES AND INTERESTS

- Organised a **Quiz Competition** on the occasion of **World Environment Day 2020** (More than **6000 Participants** were participated from all over the world)
- Actively associated with many Colleges and Universities as a technical committee member for organising webinars, seminars and competitions
- Actively organize and participate in various student activities

- Participated & Qualified for final round in Quiz Competition organized by the Zoological Society, Kolkata & WBBB on 28th April, 2018
- Participated in more than 230 webinars and quiz competitions since 2019
- Participated in many zonal, district and state level quiz, debate and drawing competitions
- Others: Playing Cricket, Photography etc.

LANGUAGES KNOWN

Bengali, English, Hindi

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RESEARCHGATE PROFILE

<https://www.researchgate.net/profile/Aloke-Saha-3>

GOOGLE SCHOLAR PROFILE

<https://scholar.google.com/citations?user=JPzabu0AAAAJ&hl=en>

RESEARCH METRICES

- **Citation:** 303 (Google Scholar); 360 (ResearchGate)
- **h-index:** 8 (Google Scholar); 10 (ResearchGate)
- **i10-index:** 8 (Google Scholar)
- **Research Interest Score:** 554.3 (ResearchGate)