

CURRICULUM VITAE

1. Personal Information

- ❖ Name: DR PALAS SAMANTA
- ❖ Designation: Assistant Professor
- ❖ Department: Environmental Science
- ❖ Institution: Sukanta Mahavidyalaya
- ❖ Date of Joining: 24/09/2019
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2. Academic Qualifications

Degree	Subject/ Specialization	University	Year
Ph.D.	Environmental Science	The University of Burdwan	2015
NET	Environmental Science	University Grants Commission	2012
M.Sc.	Environmental Science	The University of Burdwan	2010
B.Sc.	Environmental Science	The University of Burdwan	2008

3. Research Experience

- ❖ Research Specialization/Field: Environmental Toxicology; Environmental Biotechnology; Pollution Monitoring and Risk Assessment; Remote Sensing and GIS
- ❖ Research Projects: NA
- ❖ Research Collaborations: NA
- ❖ Post-Doctoral/ Research Associate/ Industrial Experience:
 - Post-doctoral Fellow**, Korea Institute of Toxicology, Daejeon, Korea, June 1, 2019 to September 23, 2019
 - Post-doctoral Fellow**, Research Institute of Basic Sciences, Dept. of Marine Science, Incheon National University, Incheon, Korea, April 27, 2018 to May 31, 2019
 - Research Professor**, Division of Environmental Science and Ecological Engineering, Korea University, Seoul, South Korea, April 1, 2015 to March 31, 2018

4. Publications

❖ Journal Articles :

1. Adhikari, M. D., Samanta, P., Kundu, D., Kumar, S. and Kumar, K. (2026). Drinking Water Contamination by Microplastics in India: Comparative Analysis, Risk Assessment, and Global Implications. ***Environmental Quality Management***, 35: e70327. <https://doi.org/10.1002/tqem.70327> (IF-1.3) **WILEY, ISSN: 1520-6483**
2. Kundu, D., Jacob, S., Samanta, P., Kumar, V., Adhikari, M. D., Kumar, N. S. S., Chintagunta, A. & Kuila, A. (2026). From Fundamentals to Applications: A Comprehensive Review of Enzymatic Biofuel Cells. ***Fuel Cells***, 26: e70081. <https://doi.org/10.1002/fuce.70081> (IF - 3.1) **Wiley, ISSN: 1615-6854**
3. Barathi, A., Kundu, D., Pooja, K., Surya, M., Jacob, S., Samanta, P., Kumar, V., & Kuila, A. (2026). Toward sustainable industry: integrating industrial symbiosis, biorefineries, and circular economy for SDG alignment. ***Sustainable Energy & Fuels***. DOI: 10.1039/d6se00037a (IF - 4.1) **RSC, ISSN: 2398-4902**
4. Kundu, D., Barathi, A., Pooja, K., Surya, M., Jacob, S., Koley, A., Samanta, P., Kumar, V., Chintagunta, A. D., Kumar, N. S. S., Balachandran, S., & Singh, H. (2026). Green hydrogen pathways for a net-zero future: technologies, circular economy integration, life-cycle performance and safety dimensions. ***RSC advances***, 16(15), 13471–13514. <https://doi.org/10.1039/d5ra09599a> (IF - 4.6) **RSC, ISSN: 2046-2069**
5. Singh, B.P., Choudhury, M., Roy, R., Gupta, P. and **Samanta, P.** 2026. Performance Modelling of Sewage Treatment Plant by the Application of Polynomial Neural Network. ***Water, Air, & Soil Pollution*** 237:512. <https://doi.org/10.1007/s11270-026-09205-w> (IF - 3.0) **Springer, ISSN: 1573-2932**
6. Singh, B.P., Choudhury, M., **Samanta, P.** and Gupta, P. 2025. Hydrogeochemical Appraisal, Quality Assessment, Ecological and Human Health Risk Assessment in Groundwater of Hindon River Basin. ***Water Conservation Science and Engineering***, 10: 127. <https://doi.org/10.1007/s41101-025-00452-2> (IF - 1.9) **Springer, ISSN: 2364-5687**
7. Kundu, D., Barathi, A., Pooja, K., Surya, M., Jacob, S., Samanta, P., Kumar, V., Singh, H., & Adhikari, M.D. 2025. Aligning policy, sustainability metrics and environmental assessment for biofuels: A comprehensive review. ***Bioresource Technology Reports***, 32: 102300. <https://doi.org/10.1016/j.biteb.2025.102300> (IF - 4.3) **Elsevier, ISSN: 2589-014X**
8. Choudhury, M., Suhag, M., Jha, P., Harne, K. R., **Samanta, P.**, Choudhury, M., Borgohain, R. B., Majumdar, S., Kravchenko, Y. & Choudhary, R. 2025. Urban waste management and challenges in emerging smart city systems governance and circular economy perspectives. ***Ecological Engineering & Environmental Technology***, 26(10), 243–266. <https://doi.org/10.12912/27197050/211014> **ISSN: 2719-7050**
9. Jacob, S., Kundu, D., Chintagunta, A.D., Sampath Kumar, N.S., **Samanta, P.**, Mahata, C., Dey, S., Shibirathna, R.G., Barathi, A., Kumar, S., Wang, Z., and Goel, G. 2025. Anaerobic digestion-derived digestate valorization: green chemistry innovations for resource recovery and reutilization. ***Green Chemistry*** 27, 7472-7505. DOI: 10.1039/d5gc01053e (IF - 9.3) **RSC, ISSN: 1463-9270**
10. Choudhury, T.R., Moniruzzaman, M., Anonna, T.A., Al-Asad, H., **Samanta, P.** and Islam, F. 2025. Evaluation of heavy metal contamination in soil, water, and fish in an industrial zone in Bangladesh: Ecological and potential health risk. ***Regional Studies in Marine Science***, 86: 104162.

<https://doi.org/10.1016/j.rsma.2025.104162> (IF - 2.1) Elsevier, ISSN: 2352-4855

11. Choudhury, M., Adhikari, M. A., Agarwal, S., **Samanta, P.**, Sharma, A., Kundu, D. and Kumar, S. 2025. Pharmaceuticals and personal care products in soil: sources, impacts and myco-remediation strategies. *Emerging Contaminants*, **11**: 100488. <https://doi.org/10.1016/j.emcon.2025.100488> (IF - 5.3) Elsevier, ISSN: 2405-6650
12. Dey, S., Santra, M., Ghosh, A.R. and **Samanta, P.** 2025. Recuperating agricultural wastes into feed additives. *Biocatalysis and Agricultural Biotechnology* **64**: 103508 <https://doi.org/10.1016/j.bcab.2025.103508> (IF - 3.4) Elsevier, ISSN: 1878-8181
13. Payanthoth, N.S., Mut, N.N.N., **Samanta, P.**, Li, G. and Jung, J. 2024. A review of biodegradation and formation of biodegradable microplastics in soil and freshwater environments. *Applied Biological Chemistry* **67**:110 <https://doi.org/10.1186/s13765-024-00959-7> (IF - 2.3) Springer, ISSN: 2468-0842
14. Kundu, D., **Samanta, P.**, Bhowmik, S., Panigrahi, S., Dey, S., Nath, K., Rajak, R.C., Sherpa, K.C., Barathi, A., Kofoed, M.V.W. Kumar, S. and Lin, C.S.K. 2024. Heterogeneous catalysts for sustainable biofuel production: A paradigm shift towards renewable energy. *Biocatalysis and Agricultural Biotechnology* **62**: 103432 <https://doi.org/10.1016/j.bcab.2024.103432> (IF - 3.4) Elsevier, ISSN: 1878-8181
15. Dey, S., Santra, M., Choudhury, M., Ghosh, A.R. and **Samanta, P.** 2024. Food waste generation and its industrial utilization: An overview. *Environmental Science and Pollution Research*. **32**, 7493–7512 <https://doi.org/10.1007/s11356-024-34252-3> (IF - 5.8) Springer, ISSN: 1614-7499
16. Dey, S., **Samanta, P.**, Ghosh, A.R., Banerjee, S. and Sen, K. 2024. State-of-the-art microalgae-based bioreactor wastewater treatment for the elimination of emerging contaminants: A mechanistic review. *Cleaner Water*, **2**: 100027, <https://doi.org/10.1016/j.clwat.2024.100027> Elsevier, ISSN: 2950-2632
17. Singh, B.P., **Samanta, P.**, Choudhury, M., Gupta, P., Chadha, U. and Eticha, T.K. 2024. Physicochemical and heavy metal pollution level in Hindon River ecosystem: An implication to public health risk assessment. *Environmental Quality Management*, **1-16**. <https://doi.org/10.1002/tqem.22263> (IF-1.3) WILEY, ISSN: 1520-6483
18. Gogoi, N., Choudhury, M., Ul Hasan, M.S., Changmai, B., Baruah, D. and **Samanta, P.** 2024. Soil organic carbon pool in diverse land utilization patterns in North-East India: an implication for carbon sequestration. *Environment, Development and Sustainability*, <https://doi.org/10.1007/s10668-024-05037-y> (IF - 4.2) Springer, ISBN: 1573-2975
19. Kundu, D., Dutta, D., Joseph, A., Jana, A., **Samanta, P.**, Bhakta, J.N., Alreshidi, M.A. 2024. Safeguarding drinking water: A brief insight on characteristics, treatments and risk assessment of contamination. *Environmental Monitoring and Assessment*. **196**:180. <https://doi.org/10.1007/s10661-024-12311-z> (IF - 3.0) Springer, ISSN: 1573-2959
20. Goswami, S., **Samanta, P.** and Adhikari, M. D. 2024. Nanobiotechnology: A smart platform of the future transform liquid biopsy era. *The Journal of Liquid Biopsy*. **3** (2024) 100137. <https://doi.org/10.1016/j.jlb.2024.100137> Elsevier, ISSN: 2950-1954
21. Gogoi, N., Sarma, A., Choudhury, M., **Samanta, P.**, Faizan, M. Sadhak, S. 2024. Soil Heavy Metal Pollution and Ecological Risk Assessment in Disturbed and Undisturbed Soil of Morigaon, Assam. *Discover Environment*, **2**: 13. <https://doi.org/10.1007/s44274-024-00039-z> ISBN: 2731-9431
22. **Samanta, P.** and Ghosh, A.R. 2023. Neurotoxicity induced by herbicides Almix and Excel Mera 71 in the

- Indian teleost *Heteropneustes fossilis* (Bloch). *Indian Journal of Experimental Biology*, **61**: 789-795. Doi: 10.56042/ijeb.v61i10.1639 (IF – 0.944) CSIR-NISCAIR, ISSN: 0019-5189
23. Dey, S., Pal, S., Ghosh, A.R. and **Samanta, P.** 2023. A perspective on molecular and cellular biology-based developmental toxicology biomarkers. *BIOCELL*. **47(12)**: 2579-2590. <https://doi.org/10.32604/biocell.2023.031114> (IF – 1.2) Springer, ISSN: 0327-9545
 24. Dey, S., **Samanta, P.**, Dutta, D., Kundu, D., Ghosh, A.R. and Kumar, S. 2023. Face Masks: a COVID-19 protector or environmental contaminant? *Environmental Science and Pollution Research*. **30(41)**, 93363–93387. <https://doi.org/10.1007/s11356-023-29063-x> (IF – 5.8) Springer, ISSN: 1614-7499
 25. Haldar, S., Choudhury, M., Choudhury, S. and **Samanta, P.** 2023. Trend analysis of long-term meteorological data of a growing metropolitan city in the era of global climate change. *Total Environment Research Themes*, **7**: 100056, <https://doi.org/10.1016/j.totert.2023.100056> Elsevier, ISSN: 2772-8099
 26. Mondal, T., Choudhury, M., Kundu, D., Dutta, D. and **Samanta, P.** 2023. Landfill: An eclectic review on structure, reactions and remediation approach. *Waste Management*, **164**: 127–142, <https://doi.org/10.1016/j.wasman.2023.03.034> (IF – 8.816) Elsevier, ISSN: 0956-053X
 27. **Samanta, P.**, Mondal, N.K., Gupta, S., Mandal, S. and Ghosh, A.R. 2023. Health Effects of Pesticides on Agricultural Workers. *Science and Culture*, **89 (3–4)**: 75-81, <https://doi.org/10.36094/sc.v89.2023.0036-8156>
 28. Dey, S., **Samanta, P.** and Ghosh, A.R. 2023. Assessment of aquatic ecological health: A comparative study between cistern-made and 'Natural' earthen-made waterbody. *Watershed Ecology and the Environment*, **5**: 88–99, <https://doi.org/10.1016/j.wsee.2023.02.001> Elsevier, ISSN: 2589-4714
 29. **Samanta, P.**, Dey, S., Kundu, D., Dutta, D., Jambulkar, R., Mishra, R., Ghosh, A.R. and Kumar, S. 2022. An insight on Sampling, Identification, Quantification and Characteristics of Microplastics in Solid Wastes. *Trends in Environmental Analytical Chemistry*, **36**: e00181, <https://doi.org/10.1016/j.teac.2022.e00181> (IF – 13.622) Elsevier, ISSN: 2214-1588
 30. Choudhury, M., Sahoo, S., **Samanta, P.**, Tiwari, A., Tiwari, A., Chadha, U., Bhardwaj, P., Nalluri, A., Eticha, T.K. and Chakravorty, A. 2022. COVID-19: An Accelerator for Global Plastic Consumption and Its Implications. *Journal of Environmental and Public Health*, Volume 2022, Article ID 1066350. <https://doi.org/10.1155/2022/1066350> (IF – 2.791) Hindawi, ISSN: 1687-9805
 31. Agarwal, S., Barman, D.R., Sharma, A., Choudhary, R., Choudhury, M., **Samanta, P.** and Singh, R.P. 2022. Managing Biomedical Waste Amidst Global Pandemic and Suggestive Measures in Achieving Sustainable Development Goals. *ESSENCE International Journal for Environmental Rehabilitation and Conservation*, **XIII (I)**: EOI: 10.11208/essence.22.13.1. ISSN: 0975–6272
 32. Kundu, D., Dutta, D., **Samanta, P.**, Dey, S., Sherpa, K.C., Kumar, S. and Dubey, B.K. 2022. Valorization of wastewater: A paradigm shift towards circular bioeconomy and sustainability. *Science of The Total Environment*, **848**: 157709, <https://doi.org/10.1016/j.scitotenv.2022.157709> (IF – 10.753) Elsevier, ISSN: 0048-9697
 33. **Samanta, P.**, Dey, S., Ghosh, A.R. and Kim, J.K. 2022. Nanoparticle Nutraceuticals in Aquaculture: A Recent Advances. *Aquaculture*, **560**: 738494, <https://doi.org/10.1016/j.aquaculture.2022.738494> (IF – 5.135) Elsevier, ISSN: 0044-8486
 34. Song, J., Kim, C., Na, J., Sivri, N., **Samanta, P.** and Jung, J. 2022. Transgenerational effects of polyethylene

microplastic fragments containing benzophenone-3 additive in *Daphnia magna*. **Journal of Hazardous Materials**, **436:129225**, <https://doi.org/10.1016/j.jhazmat.2022.129225>. (IF – 14.224) Elsevier, ISSN: 0304-3894

35. Anonna, T.A., Moniruzzaman, M., Khan, A.H.A.N., Sarker, A.K., **Samanta, P.**, Naser, M.I., Ahmed, S., Al Asad, H. 2022. Why pandemic coronavirus (SARS-CoV-2) hit different age groups of people in Southeast Asia? a case study in Bangladesh. **Journal of Ideas in Health**, **5(2): 655-663**. <https://doi.org/10.47108/jidhealth.Vol5.Iss2.207>, ISSN: 2645-9248
36. **Samanta, P.** and Ghosh, A.R. 2021. Evaluation of Health Status of *Oreochromis niloticus* Based on Brain Optic Tectum Morphopathology. **Indian Journal of Experimental Biology**, **59: 877-883**. Doi: 10.56042/ijeb.v59i12.57834 (IF – 0.944) CSIR-NISCAIR, ISSN: 0019-5189
37. Singh, B.P., Choudhury, M., **Samanta, P.**, Gaur, M., Kumar, M. 2021. Ecological Risk Assessment of Heavy Metals in Adjoining Sediment of River Ecosystem. **Sustainability**, **13: 10330**. <https://doi.org/10.3390/su131810330> (IF - 3.889) MDPI, ISSN: 2071-1050
38. **Samanta, P.** and Ghosh, A.R. 2021. Environmental Perspectives of COVID-19 Outbreaks – A Review. **World Journal of Gastroenterology**, **27(35): 5822-5850**. <https://dx.doi.org/10.3748/wjg.v27.i35.5822> (IF - 5.374) BAISHIDENG, ISSN: 1007-9327
39. **Samanta, P.**, Dey, S. and Ghosh, A.R. 2021. Are population size and diverse climatic conditions the driving factors for next COVID-19 pandemic epicenter in India? **Results in Physics**, **26: 104454** <https://doi.org/10.1016/j.rinp.2021.104454> (IF – 4.565) Elsevier, ISSN: 2211-3797
40. Dey, S., Pal, S., Ghosh, A.R. and **Samanta, P.** 2021. Recurrence Possibility of COVID-19 in India (Editorial). **Austin Journal of Plant Biology**, **7(1): 1027**. ISSN: 2472-3738
41. Dey, S., Pal, S., Ghosh, A.R. and **Samanta, P.** 2021. COVID-19 and Its Consequences among Medical Workers (Editorial). **JSM Environmental Science & Ecology**, **9(1): 1073**. ISSN: 2333-7141
42. Park, J.S., **Samanta, P.**, Lee, S., Lee, J., Cho, J.W., Chun, H.S., Yoon, S., and Kim, W.K. 2021. Developmental and Neurotoxicity of Acrylamide to Zebrafish. **International Journal of Molecular Sciences** **22: 3518** <https://doi.org/10.3390/ijms22073518> (IF – 6.208) Elsevier, ISSN: 1422-0067
43. Park, M.S., Kim, J.K., Shin, S.K., Min, B.H., and **Samanta, P.** 2021. Trophic Fractionation in an Integrated Multi-Trophic Aquaculture (IMTA) off Tongyoung Coast: A Stable Isotope Approach. **Aquaculture** **536: 736454** <https://doi.org/10.1016/j.aquaculture.2021.736454> (IF – 5.135) Elsevier, ISSN: 0044-8486
44. Dey, S., **Samanta, P.**, and Ghosh, A. R. 2020. COVID-19 Pandemic - A Global Emergency. **Disaster & Development** **9(1): 85-88**. ISSN: 0973-6700
45. Dey, S., Ballav, P., **Samanta, P.**, Mandal, A., Patra, A., Das, S., Mondal, A.K., and Ghosh, A. R. 2020. Time-Dependent Naphthalene Toxicity in *Anabas testudineus* (Bloch): A Multiple Endpoint Biomarker Approach. **ACS OMEGA**, **6, 317–325**. <https://dx.doi.org/10.1021/acsomega.0c04603> (IF – 4.132) ACS, ISSN: 2470-1343
46. **Samanta, P.**, Im, H., Shim, T., Na, J. and Jung, J. 2020. Linking Multiple Biomarker Responses in *Daphnia magna* under Thermal Stress. **Environmental Pollution**, **263: 114432** <https://doi.org/10.1016/j.envpol.2020.114432> (IF – 9.988) Elsevier, ISSN: 0269-7491
47. Dey, S., Ballav, P., Mandal, A., **Samanta, P.**, Patra, A., Das, S., Mondal, A.K. and Ghosh, A.R., 2020. Blood Biochemical and Erythrocytic Morpho-pathological Consequences of Naphthalene Intoxication in

- Indian Teleost, *Anabas testudineus* (Bloch). ***Environmental Toxicology and Pharmacology* 80: 103490** <https://doi.org/10.1016/j.etap.2020.103490> (IF – 5.785) Elsevier, ISSN: 1382-6689
48. **Samanta, P.**, Pal, S., Mukherjee, A.K. and Ghosh, A.R. 2020. Acute Toxicity Assessment of Arsenic, Chromium and Almix 20WP in *Euphyctis cyanophlyctis* Tadpoles. ***Ecotoxicology and Environmental Safety*, 191: 110209** <https://doi.org/10.1016/j.ecoenv.2020.110209> (IF – 7.129) Elsevier, ISSN: 0147-6513
 49. **Samanta, P.**, Shin, S.K., Jang, S. and Kim, J.K. 2019. Effects of pH on Growth and Biochemical Responses in *Agarophyton vermiculophyllum* under Different Temperature Conditions. ***Journal of Applied Phycology*, 32, 499–509** <https://doi.org/10.1007/s10811-019-01933-3> (IF – 3.404) Springer, ISSN: 0921-8971
 50. **Samanta, P.**, Shin, S.K., Jang, S., Song, Y.C., Oh, S., and Kim, J.K. 2019. Stable Carbon and Nitrogen Isotopic Characterization and Tracing Nutrient Sources of *Ulva* Blooms Around Jeju Coastal Areas. ***Environmental Pollution*, 254: 113033** doi: <https://doi.org/10.1016/j.envpol.2019.113033> (IF – 9.988) Elsevier, ISSN 0269-7491
 51. **Samanta, P.**, Shin, S.K., Jang, S. and Kim, J.K. 2019. Comparative Assessment of Salinity Tolerance Based on Physiological and Biochemical Performances in *Ulva australis* and *Pyropia yezoensis*. ***Algal Research*, 42: 101590.** <https://doi.org/10.1016/j.algal.2019.101590> (IF – 5.276) Elsevier, ISSN: 2211-9264
 52. Im, H., **Samanta, P.**, Na, J. and Jung, J. 2019. Time-Dependent Responses of Oxidative Stress, Growth, and Reproduction of *Daphnia magna* Under Thermal Stress. ***Bulletin of Environmental Contamination and Toxicology*, 102 (6): 817-821.** (IF – 2.807) Springer, ISSN: 1432-0800
 53. Dey, S., **Samanta, P.**, Mondal, N. S., Kole, D., Mandal, A., Patra, A. and Ghosh, A. R. 2019. Dose Specific Responses of *Anabas testudineus* (Bloch) to Anthracene (PAH): Haematological and Biochemical Manifestation. ***Emerging Contaminants*, 5: 232–239.** (IF – 6.9) Elsevier, ISSN: 2405-6650
 54. Mondal, A. K., Goswami, K., Pal, S., Mukherjee, A. K., **Samanta, P.**, Kole, D., Ghosh, S. and Ghosh, A. R. 2019. Toxicity Analysis of Ferterra (Chlorantraniliprole 0.4% GR) on Tilapia (*Oreochromis niloticus* (Linn.): Histological and Ultrastructural Observations. ***Proceedings of Zoological Society***, <https://doi.org/10.1007/s12595-019-00290-w> Springer, ISSN: 0373-5893
 55. **Samanta, P.**, Pal, S., Mukherjee, A. K., Senapati, T., Jung, J., and Ghosh, A. R. 2019. Assessment of Adverse Impacts of Glyphosate-Based Herbicide, Excel Mera 71 by Integrating Multi-Level Biomarker Responses in Fishes. ***International Journal of Environmental Science & Technology*, 16: 6291–6300** <https://doi.org/10.1007/s13762-018-2013-3>. (IF – 3.519) Springer, ISSN: 1735-1472
 56. **Samanta, P.**, Pal, S., Mukherjee, A. K., Senapati, T. and Ghosh, A. R. 2019. Effects of Glyphosate-Based Herbicide (Excel Mera 71) on Digestive Enzymes and Recovery Pattern in Teleostean Fishes. ***Proceedings of Zoological Society*, 72(1): 54-60** Springer, ISSN: 0373-5893
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 58. **Samanta, P.**, Im, H., Na, J. and Jung, J. 2018. Ecological Risk Assessment of a Contaminated Stream using Multi-Level Integrated Biomarker Response in *Carassius auratus*. ***Environmental Pollution*, 233:**

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60. **Samanta, P.,** Pal, S., Senapati, T., Mukherjee, A. K. and Ghosh, A. R. 2018. Assessment of Adverse Outcome of Excel Mera 71 in *Anabas testudineus* by Histological and Ultrastructural Alterations. ***Aquatic Toxicology*, 205: 19-24 (IF – 5.202) Elsevier, ISSN: 0166-445X**
61. **Samanta, P.,** Im, H., Na, J. and Jung, J. 2018. Integrated biomarker responses in livers of the pale chub *Zacco platypus* for risk assessment of a stream contaminated by wastewater effluents. ***Bulletin of Environmental Contamination and Toxicology*, 101: 580–585 (IF – 2.807) Springer, ISSN: 1432-0800**
62. Pal, S., **Samanta, P.,** Kole, D., Mukherjee, A.K. and Ghosh, A.R. 2018. Acute Toxicity and Oxidative Stress Responses in Tadpole of Skittering Frog, *Euphlyctis cyanophlyctis* (Schneider, 1799) to Sodium Fluoride Exposure. ***Bulletin of Environmental Contamination and Toxicology*, 100(2): 202-207 (IF – 2.807) Springer, ISSN: 1432-0800**
63. **Samanta, P.,** Kumari, P., Pal, S., Mukherjee, A. K. and Ghosh, A. R. 2018. Histopathological and Ultrastructural Alterations in Some Organs of *Oreochromis niloticus* Exposed to Glyphosate-Based Herbicide, Excel Mera 71. ***Journal of Microscopy and Ultrastructure*, 6: 35-43. ISSN: 2213-879X**
64. **Samanta, P.,** Pal, S., Mukherjee, A. K., Senapati, T., Jung, J., and Ghosh, A. R. 2017. Multi-level Integrative Biomarker Responses in Freshwater Teleostean Fishes Exposed to Almix Herbicide. ***International Journal of Environmental Research*, 11(4): 475–487 (IF – 3.229) Springer, ISSN: 1735-6865**
65. Kim, S., **Samanta, P.,** Yoo, J., Kim, W.K. and Jung, J. 2017. Time-dependent toxicity responses in *Daphnia magna* exposed to CuO and ZnO nanoparticles. ***Bulletin of Environmental Contamination and Toxicology*, 98: 502–507 (IF – 2.807) Springer, ISSN: 1432-0800**
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37. Dey, S., Pal, S., Hossain, M.Y., Senapati, T., Md. Moniruzzaman, M., Ghosh, A.R. and **Samanta, P.** 2021. Dominative Activity on Social-Media of India and Bangladesh during COVID-19: Evidence of a Scalable Accuracy-Nose Intervention, in: Dey, S., Sen, K. (Eds.), *Innovative Approaches on Environmental Sustainability and Toxicology, LAP LAMBERT Academic Publishing (Germany)*, pp. 35-50, 2021. ISBN: 978-620-4-19150-8
38. Senapati, T., **Samanta, P.**, Roy, R., Sasmal, T., and Ghosh, A.R. 2021. Artificial Neural Network: An Alternative Approach for Assessment of Biochemical Oxygen Demand of the Damodar River, West

Bengal, India, in: Bhattacharyya, S., Mondal, N.K., Platos, J., Snášel, V. and Krömer, P. (Eds.), ***Intelligent Environmental Data Monitoring for Pollution Management***, Academic Press, pp. 231-240, 2021. <https://doi.org/10.1016/B978-0-12-819671-7.00010-5> ISBN: 978-0-12-819671-7

39. Ghosh, A.R., **Samanta, P.** and Kole, D. 2020. Biomarker Analysis in Ichthyotoxicological Paradigm: Electron Microscopic Observations of Almix and Glyphosate Exposures, in: Mukherjee, S., Biswas, J.K., Sarkar, N.S., Panigrahi, A.K. (Eds.), ***Vision Towards Environmentally Sustainable Future***, New Delhi Publishers, pp. 44-61, 2020. ISBN: 978-93-88879-80-4
40. **Samanta, P.**, Ghosh, A.R. and Jung, J. 2020. Microbe-Mediated Remediation of Heavy Metal Contamination, in: Saha, T. and Tiwary, B.K. (Eds.), ***Microbes, Environment and Human Welfare***, NOVA Science Publishers, Inc., pp. 27-64, 2020. ISBN: 978-1-53617-945-3

❖ Conference Proceedings :

1. **Samanta, P.**, Pal, S., Mukherjee, A. K. and Ghosh, A. R. 2014. Biochemical Effects of Almix Herbicide in Three Freshwater Teleostean Fishes. ***HydroMedit - 2014, 1st International Congress of Applied Ichthyology & Aquatic Environment***, Volos, Greece. November 13-15, 1, 162-167, ISBN: 978-618-80242-2-9
2. Kole, D., Pal, S., Mukherjee, A. K., **Samanta, P.** and Ghosh, A. R. 2014. Effects of Chromium on Tissue-Specific Biochemical Parameters in Freshwater Catfish, *Anabas testudineus* (Bloch). ***HydroMedit - 2014, 1st International Congress of Applied Ichthyology & Aquatic Environment***, Volos, Greece, November 13-15, 1, 169-174, ISBN: 978-618-80242-2-9

5. Details of Patents :: Not Applicable.



6. Ph.D. Supervision

- ❖ Awarded: NA
- ❖ Ongoing (if registered): One

7. Conferences/Seminars/Workshop:

Conferences/Seminars

1. Attended and paper presented on "Almix-induced Histochemical Alterations in Intestine and Stomach of Three Indian Teleostean Fishes" in the ***"International Seminar on 'Environment and Sustainability' - 2025"*** held on June 11, 2025 organized by Sidho-Kanho-Birsha University
2. Attended ***"Sixth Doctoral Symposium on Intelligence Enabled Research (DoSIER 2024)"*** held on November 28-29, 2024 organized by Sukanta Mahavidyalaya
3. Attended and presented paper on ***"Risk Evaluation in Agricultural Soils of Morigaon District, Assam"*** in ***"7th Regional Science and Technology Congress - 2024-25"*** held on January 24-25, 2025, at Siliguri, West Bengal, India organized by Siliguri College
4. Attended and presented paper on ***"Assessment of Anthropogenic Impacts in Disturbed and Undisturbed Soil of Morigaon, Assam"*** in ***"Tow-day's ICSSR-sponsored National Seminar on Urbanization, Urban Environment and Sustainability in Himalayan and Sub-Himalayan Region"*** held on July 1-2, 2023, at Siliguri, West Bengal, India organized by Department of Geography and Applied Geography, North Bengal University

5. Attended and presented paper on ***"Toxicity Assessment of Almix and Excel Mera 71 Herbicides in Anabas testudineus"*** in ***"9th International Conference on Ecology and Environment"*** held on June 22-24, 2023, at Burdwan, West Bengal, India organized by The University of Burdwan, Burdwan
6. Attended and presented paper on ***"Toxicity Assessment of Almix and Excel Mera 71 in Heteropneustes fossilis"*** in ***"5th Regional Science and Technology Congress – 2022-23"*** held on January 17-18, 2023, at Coochbehar, West Bengal, India organized by Coochbehar Panchanan Barma University, Coochbehar
7. Attended ***"International Conference on Jambhani's Eco-Physiology for Environmental Challenges and Biodiversity Conservation"*** held on June 5-6, 2023, at Jodhpur, Rajasthan, India organized by Jai Narain Vyas University, Jodhpur, Rajasthan
8. Attended and presented paper on ***"Neurotoxicity Induced by Almix and Excel Mera 71 in Heteropneustes fossilis"*** in ***"International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy (BSBB-2022)"*** held on December 7-11, 2022, at Guwahati, Assam, India organized by Indian Institute of Technology, Guwahati, Assam, India
9. Attended and presented paper on ***"Neurotoxicity Assessment of Almix and Excel Mera 71 Herbicides in Anabas testudineus"*** in ***"WORLD ENVIRONMENT SUMMIT 2022"*** held on October 15 & 16, 2022, at New Delhi, India organized by Environment and Social Development Association (ESDA) Delhi
10. Attended ***"RSC-IITM Desktop Seminar on Environmental Science"*** held on October 12, 2022 organized by RSC Publishing Webinars
11. Attended and presented paper on ***"Neurotoxicity Induced by Almix and Excel Mera 71 in Anabas testudineus"*** in ***"Indo-USA International Conference on Applications of Nanotechnology in Biology, Biotechnology and Biopharmaceuticals (ICNB3)"*** held on August 11 & 12, 2022, at Tamil Nadu, India organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology
12. Attended ***"International Conference on Toxicology"*** held on April 27 & 28, 2022, at Tamil Nadu, India organized by Padmavani Arts and Science College for Women
13. Attended ***"National E-Conference on Environmental Problems and Their Mitigation Strategies to Achieve Sustainable Development"*** held on April 22, 2022, at Maharashtra, India organized by Anandrao Dhonde Alias Babaji Mahavidyalaya
14. Attended and presented paper on ***"Evaluation of Health Status of Oreochromis niloticus Based on Brain Optic Tectum Morphopathology"*** in ***"International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BASEH-2021)"*** held on April 4 to 8, 2021, at Rajasthan, India organized by Birla Institute of Scientific Research
15. Attended and presented paper on ***"Assessment of Herbicide-Induced Histopathological Alterations in Brain Optic Tectum of Heteropneustes fossilis"*** in ***"International E-Conference on Bioprospecting (ICONBIO)"*** held on January 29 & 30, 2021, at Tiruvannamalai, Tamilnadu, India organized by Arunai Engineering College
16. Attended and presented paper on ***"Effects of Almix and Excel Mera 71 Herbicides on Brain Morphology of Oreochromis niloticus"*** in ***"4th World Clean Environment Summit 2020"*** held on December 22 to 24, 2020, Kolkata, West Bengal, India organized by Barrackpore Rastraguru Surendranath College
17. Attended and presented paper on ***"Histopathological Manifestations in Brain Optic Tectum: A Good Tool to Assess Neurotoxicity of Environmental Stressors"*** in ***"4th International Conference (Webinar) on "Mother Earth: Save it to Achieve a Sustainable Future for All"*** held on August 27 to 29, 2020 at Burdwan, India organized by The University of Burdwan
18. Attended ***"National Web Conference on "Challenges and Opportunities in Life Science for Self-Sustaining Life Security"*** held on August 19 & 20, 2020 at AKS University, Madhya Pradesh
19. Attended ***"National Web Conference on "Plastic and E-waste Management: A Challenge to Clean Environment"*** held on August 13 & 14, 2020 at AKS University, Madhya Pradesh
20. Attended ***"International Web Conference on "Innovative Technologies, Entrepreneurship Avenues, Livelihood Enhancement in Sustainable Management of Animal Farming"*** held on August 3 & 4, 2020 at Dr. Ambedkar Government Arts College, Tamilnadu
21. Attended ***"National Conference on Socio-Economic Challenges & Possibility of Rural, Agriculture, Biodiversity, Environment, Tourism & Sustainable Resource Management Development"*** held on

- August 1, 2020 organized by Social Science & Management Welfare Association & Radiant Group of Institution, Jabalpur & Vikramaditya College RDVV University, Jabalpur (M.P.) India
22. Attended "**National Conference on Entrepreneurship Development: Challenges & Possibilities**" held on August 1, 2020 organized by Social Science & Management Welfare Association & Radiant Group of Institution, Jabalpur & Vikramaditya College RDVV University, Jabalpur (M.P.) India
 23. Attended and presented paper on "**Histopathological Manifestations of Sub-Chronic Toxicity of Almix and Excel Mera 71 Herbicides in Brain (Optic Tectum) of Anabas testudineus**" in "**4th Regional Science & Technology Congress (Western Region), 2019**" held on December 9th & 10th at Burdwan, India organized by The University of Burdwan
 24. Attended and presented paper on "**Assessment of Salinity Tolerance Based on Physiological and Oxidative Stress Responses in Ulva and Pyropia**" in the International Conference "**23rd International Seaweed Symposium**" held on April 28th – May 3rd, 2019 at Jeju, Korea organized by The Korean Society of Phycology
 25. Attended and presented paper on "**Toxicity Assessment of a Contaminated Stream by Industrial Effluents using Wild Fish Zacco platypus**" in the International Conference "**2017 International Environmental Engineering Conference**" held on November 15-17, 2017 at Jeju, Korea organized by Korean Society of Environmental Engineers
 26. Attended 1st OJERI Symposium on "**Resilience Thinking in a Changing World**" held on 7th and 8th May, 2015 organized by O-Jeong Eco-Resilience Institute, Korea University
 27. Attended one-day Colloquium on "**Modern Trends in Biotechnology**" held on 18th February, 2015 organized by Dept. of Biotechnology, The University of Burdwan
 28. Attended and presented paper on "**Chronic Cytopathological Effects of Almix Herbicide under Field and Laboratory Conditions**" in the 2nd International Conference "**Mother Earth: Save it to Achieve a Sustainable Future for All**" held on December 10-12, 2014 at Dept. of Environmental science, Burdwan organized by Dept of Environmental science, the University of Burdwan, Burdwan
 29. Attended and presented paper on "**Comparative Study on Total Protein Content and Aminotransferases Activities (AST and ALT) in Liver of Three Almix Intoxicated Teleostean Fishes, Anabas testudineus, Heteropneustes fossilis, and Oreochromis niloticus**" in the 4th International Conference of National Environmentalists Association on "**Anthropogenic Impact on Environment and Conservation Strategy**" held on November 2-4, 2012 at Ranchi organized jointly by Dept. of Zoology, Ranchi University, Ranchi and Depts. of Zoology and Botany, St. Xavier's College, Ranchi
 30. Attended one-day Seminar on "**Aquaculture & Probiotics**" held on 7th December, 2011 organized by Dept. of Zoology, The University of Burdwan
 31. Attended the International Conference "**Mother Earth: Save it to Achieve a Sustainable Future for All**" held on February 13-15, 2010 at Dept of Environmental science, Burdwan organized by Dept. of Environmental science, the University of Burdwan, Burdwan

Workshops

32. Attended 2-Day Online Workshop on "**Secrets and Strategies in Capturing Research Grants**" organized by Composite Material Research Laboratory of UGC-MMTTC, University of North Bengal, India held on August 2 & 3, 2025
33. Attended Online Training Programme on "**IP Awareness/Training program**" under **National Intellectual Property Awareness Mission** organized by Intellectual Property Office, GoI held on June 26, 2025
34. Attended Online Orientation Programme for "**Content Writers and Editors of PG Environmental Science**" organized by Netaji Subhash Open University held on October 22, 2022
35. Attended Online Workshop on "**Amino Acids, Peptides and Proteins**" organized by Biodukator held on July 3, 2022
36. Attended Online Workshop in pursuance of National Education Policy (NEP 2020) on "**Educational Framework for Global Citizenship in Higher Education**" organized by HRDC-JNU, New Delhi, India held on June 24, 2022

37. Attended Online National Workshop on ***"Tool and Eyes of Nanotechnology (TEN2022)"*** organized by Sant Baba Bhag Singh University Jalandhar, Punjab, India held from May 18 to 19, 2022
38. Attended six-day e-Workshop on ***"Statistics and Geospatial Techniques in Biology"*** jointly organized by Dept. of Conservation Biology and Internal Quality Assurance Cell, Durgapur Government College, West Bengal, India held from January 17 to 22, 2022
39. Attended Online Training Programme on ***"National Intellectual Property Awareness Mission"*** organized by Intellectual Property Office, GoI held on December 3, 2021
40. Attended Online Training Programme on ***"Media and Disaster Management"*** organized by NIDM, Ministry of Home Affairs, GoI held from August 19 to 21, 2020
41. Attended Online Workshop on ***"Significance and Application of ICT in Teaching Learning Process"*** organized by Vikrant Institute of Technology and Management, India held on August 19, 2020
42. Attended International Virtual Workshop on ***"COVID-19: RT-PCR Diagnostics & Therapeutics"*** organized by University of Kalyani in collaboration with CoM-JNM Hospital, WB held from August 5 to 7, 2020
43. Attended Online State Level Workshop on ***"Ethics in Research and Scholarly Publication"*** organized by Rani Channamma University, Karnataka, India held on August 4-8, 2020
44. Attended National Web Workshop on ***"NAAC: Seven Assessment Criteria for Accreditation"*** organized by Govt. Post Graduate College, UP, India held from August 2 to 8, 2020
45. Attended Online Training Programme on ***"National Capacity Building Training on Marine Biodiversity and its Conservation"*** organized by PG and Research Department of Zoology, Dr. Ambedkar Govt. Arts College, Tamilnadu held from July 29 to 31, 2020
46. Attended Online Training Programme on ***"One Week Online GIS Training on Basics of GIS"*** organized by WWF India, ENVIS Resource Partner under Ministry of Environment, Forest and Climate Change, GoI held from July 27 to August 1, 2020
47. Attended ISTE sponsored Online Training Programme on ***"Environmental Impacts of COVID-19 Pandemic: Challenges and Remedies Through Science & Engineering"*** organized by Dept. of Applied Science, Poornima Institute of Engineering & Technology Jaipur held from July 27 to 31, 2020
48. Attended Web Workshop on ***"Easy Implementation of LMS in Your Institutions"*** organized by Skill to Hire, India held from July 25 to 26, 2020
49. Attended Online Workshop on ***"Research Patent & Development of Industry-Academia Collaborations"*** organized by IQAC, University of Science & Technology Meghalaya held on July 23, 2020
50. Attended National Web Workshop on ***"Introduction to Web Development"*** jointly organized by IQAC, Surya Sen Mahavidyalaya and Skill to Hire, WB, India held from July 17 to 19, 2020
51. Attended International Web Workshop on ***"Research Methodology in Social Sciences"*** jointly organized by Siddhinath Mahavidyalaya and Pailan College of Education, WB, India held from July 16 to 22, 2020
52. Attended Online Workshop on ***"Curriculum Design & Evaluation Process in Higher Education as per CBCS"*** organized by IQAC, University of Science & Technology Meghalaya held on July 14 & 15, 2020
53. Attended Online Training Programme on ***"Psyco-social Care and Gender Based Violence (GBV) Issues"*** organized by NIDM, Ministry of Home Affairs, GoI held on June 30, 2020
54. Attended Online Training Programme on ***"WASH, Infection Prevention and Control including Biomedical Waste Management"*** organized by NIDM, Ministry of Home Affairs, GoI held on June 23, 2020
55. Attended Online Training Programme on ***"Urban Issues and COVID-19 Management in Densely Populated Settings"*** organized by NIDM, Ministry of Home Affairs, GoI held on June 16, 2020
56. Attended Online Training Programme on ***"Data Science and Role of Technology"*** organized by NIDM, Ministry of Home Affairs, GoI held on June 9, 2020
57. Attended Online Training Programme on ***"COVID-19: Global and national Perspective – What we have learnt so far"*** organized by NIDM, Ministry of Home Affairs, GoI held on June 2, 2020
58. Attended the Ministry of Water Resources, River Development & Ganga Rejuvenation Sponsored Tier II Training Course on ***"Sustainable Development and Management of Ground Water Resources"*** organized by Central Ground Water Board, Eastern Region under the aegis of Rajiv Gandhi National Ground Water Training & Research Institute, Raipur held at ETC, Burdwan from February 23 to 27, 2015

59. Attended the UGC Sponsored National Workshop on ***"Aspects and Prospects of Biofertilizer and Biomanure"*** organized by Raja Rammohun Roy Mahavidyalaya, Radhanagar, Hooghly in association with Vivekananda Institute of Biotechnology, WB held from December 5 to 6, 2014
60. Attended UGC sponsored ***"Interaction Program for Research Scholars"*** organized by UGS-Academic Staff College, the University of Burdwan held from September 4 to 24, 2014
61. Attended the National Training Program on ***"Electron Microscopy for Scientific Investigators (2013)"*** organized by the Electron Microscope Facility, Department of Anatomy, AIIMS, New Delhi – 110029, India held from October 17- 31, 2013
62. Attended the Training Programme on ***"Genotoxicity Biomarkers in Fishes"*** organized by the National Bureau of Fish Genetic Resources, Indian Council of Agricultural Research, Canal Ring Road, P.O. Dilkusha, Lucknow - 226002, India held from 04 to 09th March, 2013
63. Attended Regional Workshop on ***"Fluorescence Microscopy"*** organized jointly by University Science Instrumentation Centre & Dept. of Microbiology, the University of Burdwan held on November 22-23, 2012
64. Attended UGC sponsored ***"Interaction Program for Research Scholars"*** organized by UGS-Academic Staff College, the University of Burdwan held from March 17 to 22, 2012
65. Attended DST-GoWB sponsored Training Programme on ***"Hands-on-training on Histotechnology and Enzymological Techniques for Clinical and Analytical Laboratory"*** organized by the Dept. of Environmental Science, the University of Burdwan, held from 8 to 17th November, 2010.

8. FIP/FDP/RC/Short Term Course/Any others:

1. Attended UGC-MMTTC Sponsored ***'13th Refresher Course in Environment Studies and Sustainable Development'*** organized by UGC-MMTTC, Banaras Hindu University, India held from August 11 to 26, 2025
2. Attended UGC-Sponsored ***'45th Faculty Induction Program Conducted Online'*** organized by UGC-HRDC, Punjabi University, India held from October 3 to 31, 2020
3. Attended UGC-Sponsored ***'Refresher Course in Environment Science'*** organized by UGC-HRDC, The University of Burdwan, India held from August 20 to September 2, 2022
4. Attended Online "NEP 2020 Orientation & Sensitization Programme" organized by the University of North Bengal, India held from March 15 to 23, 2024
5. Attended Online National one week Faculty Development Program on ***"ICT Tools for Effective Teaching and Learning"*** organized by Kamala Nehru Mahavidyalaya, India held from May 23 to 28, 2022
6. Attended Online International Faculty Development Program on ***"Research Methodology"*** organized by Kamala Nehru Mahavidyalaya, India held from May 2 to 7, 2022
7. Attended Online National Faculty Development Program on ***"ICT Tools for Effective Teaching Learning"*** organized by Kamala Nehru Mahavidyalaya, India held from June 8 to 10, 2021
8. Attended Online National Faculty Development Program on ***"Research Methodology"*** organized by Kamala Nehru Mahavidyalaya, India held from April 26 to May 1, 2021
9. Attended Online International Faculty Development Program cum Workshop on ***"Sustainable Environmental Engineering Practices (SEEP 2020)"*** organized by National Institute of Technology Rourkela, India held from September 21 to 25, 2020
10. Attended Online National Faculty Development Program on ***"Online Teaching Tools"*** organized by Rajah Serfoji Government College, Tamilnadu, India held on August 18, 2020
11. Attended Online National Faculty Development Program on ***"E-Contents and ICT Tools for Innovative and Effective Teaching & Learning Process"*** organized by Roorkee College of Management & Computer Applications, Uttarakhand, India held from August 8 to 14, 2020
12. Attended Online State Level Faculty Development Program on ***"Quality Sustenance and Enhancement Parameters – NAAC and NIRF Ranking Framework"*** organized by Marudhar Kesari Jain College for Women, India held on August 6 & 7, 2020

13. Attended Online Faculty Development Program on “**The Role of a Teacher in Nation Building**” organized by Keshav Memorial Institute of Commerce and Sciences, Telangana held from August 3 to 9, 2020
14. Attended Online Faculty Development Program on “**Bioresources**” organized by K.R. College of Arts & Science, Tamil Nadu held from July 30 to August 1, 2020
15. Attended Online International Faculty Development Program on “**Gender Sensitization**” organized by Barabazar Bikram Tudu Memorial College Purulia held from July 25 to 31, 2020
16. Attended Online Faculty Development Program on “**Current Environmental Impacts & Sustainable Research Solutions**” organized by Dept. of Biotechnology and Biochemical Engineering, Sree Buddha College of Engineering, Kerala held from July 21 to 28, 2020
17. Attended Online International Faculty Development Program on “**Technology and Skill Development in Higher Education**” jointly organized by Social Science & Management Welfare Association & Radiant Group of Institution, India held from July 18 to 20, 2020

9. Invited Lecture/Resource Person / Resource Person Chair:

1. Invited as **Resource Person** and delivered talk on “Survey Methods and Sampling: Insights of Environmental Sampling Design” in the Five Days Workshop on Research Methodology and Research Practices” organized by The Department of Geography, Sukanta Mahavidyalaya, Dhupguri in collaboration with UGC-Malaviya Mission Teacher Training Centre, North Bengal University and Indian National Cartographic Association (INCA), West Bengal on August 28, 2024
2. Invited as **Resource Person-cum-Chairperson-Expert Member** and delivered talk on “Microbes and Pollution Monitoring” in the National Seminar on Frontiers of Sustainable Microbiology Research in Food, Agriculture, Industrial and Environmental Management (FAIE 2024) organized by North Bengal St. Xavier’s College, West Bengal held on May 17 & 18, 2024
3. Invited as **Resource Person** and delivered talk on “Almix-Induced Histochemical Alterations in Intestine and Stomach of Three Indian Teleostean Fishes” in the National Conference on Environment & Energy Materials (NCEEM 2020) organized by Sharda University, Uttar Pradesh held on June 27 & 28, 2020
4. Invited as **Resource Person** in the National Workshop cum Hands-on Training Programme on Transmission Electron Microscopy organized by University Science Instrumentation Centre, the University of Burdwan held from February 5 to 11, 2019
5. Invited as Practical Demonstrator in the DST, GoI Sponsored “INSPIRE INTERNSHIP Program-2014” organized by Dept. of Environmental Science, the University of Burdwan held from August 18 to 22, 2014
6. Invited as Practical Demonstrator in the DST, GoI Sponsored “INSPIRE INTERNSHIP Program-2013” organized by Dept. of Environmental Science, the University of Burdwan held from July 9 to 13, 2013
7. Invited as Practical Demonstrator with the DST, GoI Sponsored “INSPIRE INTERNSHIP Program-2012” organized by UGC-Academic Staff College, the University of Burdwan held from July 6 to 10, 2012
8. Invited as Practical Demonstrator with the DST, GoI Sponsored “INSPIRE INTERNSHIP Program-2011” organized by UGC-Academic Staff College, the University of Burdwan held from July 11 to 15, 2011

10. Awards and Honors

1. **International Scientist Awards 2021**, VD Good Technology Factory
2. **PhD Award in Environmental Science**, The University of Burdwan
3. **Senior Research Fellow**, DST-INSPIRE Fellowship Program, 2013-2015
4. **Junior Research Fellow**, DST-INSPIRE Fellowship Program, 2011-2013
5. **Qualified UGC-NET (Environmental Science)** for Lectureship, June 2012
6. **University Gold Medalist**, the University of Burdwan, 2011
7. **First Class First in M.Sc. in Environmental Science**, the University of Burdwan

8. **First Class First in *B.Sc. (H) in Environmental Science***, the University of Burdwan
9. **Post-Graduate Merit-cum-Means Scholarship**, GoWB, 2008-2010

11. Administrative/Academic Responsibilities:

❖ Membership of Administrative/Academic Sub-committees :

Sl. No.	Bodies/Sub-committee	Duration	
		From	To
1.	Member, IQAC	May, 2022	Till now
2.	Member, Admission Sub-committee	2020-2021	Till now
3.	Convener, Green Audit Committee	2020-2021	Till now
4.	Member, Examination Sub-committee	2023-2024	Till now
5.	Member, Routine Sub-committee	2020-2021	2021-2022
6.	Convener, R&D Cell	2025-2026	Till now

❖ Design/ Development of new Curriculum and Courses :

Sl. No.	Description	Organization	Level (UG/PG)	Session
1.	Add-on Course on Environment, Sustainable and Governance	Sukanta Mahavidyalaya	UG	2025-2026
2.	Add-on Course on Sustainable Development	Sukanta Mahavidyalaya	UG	2024-2025

12. Membership of Professional/Social Bodies

❖ Membership in professional/Social:

Sl. No.	Professional/Social bodies	Membership Type	Membership No. (Optional)	Duration	
				From	To
1.	Environment and Social Development Association	Life Member		2022	till
2.	Electron Microscopy Society of India	Life Member		2019	till
3.	The Biotech Research Society, India	Life Member		2021	till

❖ Editorial board memberships:

1. Journal of Ecology and Toxicology, Omics;
2. Journal of Nephrology Forecast, Science Forecast;
3. Advances in Clinical Toxicology, Medwin; **ISSN: 2577-4328**
4. World Journal of Aquaculture Research & Development

❖ Reviewer for journals:

Science of the Total Environment (Elsevier) (IF – 8.2), *Comparative Biochemistry and Physiology* (Elsevier) (IF – 2.3), *Emerging Contaminants* (Elsevier) (IF – 6.9), *Ecotoxicology* (Springer) (IF – 2.7), *ACS OMEGA* (ACS) (IF – 4.3), *Environmental Monitoring and Assessment* (Springer) (IF – 3.0), *Environmental Contaminants and Bioavailability* (Taylor & Francis) (IF – 3.2), *Environmental Quality Management* (Wiley) (IF – 1.3), *Fish Physiology and Biochemistry* (Springer) (IF – 2.5), *Neurotoxicology* (Elsevier) (IF – 3.9), *Scientific Reports* (Nature) (IF – 3.9), *Journal of Environmental Biology* (Triveni) (IF – 0.92), *Water Research and Technology* (RSC) (IF – 3.2), *Environmental and Sustainability Indicators* (Elsevier) (IF – 5.6), *Environment, Development and Sustainability* (Springer) (IF – 4.2), *Marine and Freshwater Research* (CSIRO) (IF – 1.2), *Aquaculture* (Elsevier) (IF – 3.9), *Scientific African* (Springer) (IF – 3.3), *Ecological Genetics and Genomics* (Elsevier) (IF – 2.1), *Ecological Indicators* (Elsevier) (IF – 7.4), *African Journal of Biotechnology*, *Environmental Science and Pollution Research* (Springer), *Journal of Environmental Science & Engineering*

13. Skills

❖ Software: SPSS, Minitab, QGIS

14. Research Interests

Pollution Monitoring and Risk Assessment, Environmental Toxicology, Environmental Biotechnology, Environmental Impact Assessment, Environmental Remediation, Marine Isotope Biochemistry, Histopathology and Ultrastructure, Blue Carbon Biomass

Declaration

I do hereby declare that the information provided above are true and correct to the best of my knowledge and belief.

Place: Dhupguri

Date: 11/09/2026

Sd/-

Signature

(Palas Samanta)