

CURRICULUM VITAE

DR PALAS SAMANTA

Ph.D., M.Sc. (Gold Medalist)

Assistant Professor

(& Ex-DST INSPIRE Fellow & Ex-BK21 Plus Fellow, Korea)

Department of Environmental Science

Sukanta Mahavidyalaya

University of North Bengal

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EDUCATIONAL

QUALIFICATIONS

The University of Burdwan, Ph.D. in Environmental Science, ***January 2015***

The University of Burdwan, M.Sc. in Environmental Science, ***(79.67%) 2010***

The University of Burdwan, B.Sc. (H) in Environmental Science, ***(75.38%) 2008***

W.B.C.H.S.E., Higher Secondary in Science, ***(82.5%) 2005***

W.B.B.S.E., Secondary (10th Class), ***(82.38%) 2003***

AWARDS

International Scientist Awards 2021, VD Good Technology Factory

PhD Award in Environmental Science, The University of Burdwan

Senior Research Fellow, DST-INSPIRE Fellowship Program, 2013-2015

Junior Research Fellow, DST-INSPIRE Fellowship Program, 2011-2013

Qualified UGC–NET (Environmental Science) for Lectureship, June 2012

University Gold Medalist, the University of Burdwan, 2011

First Class First in ***M.Sc. in Environmental Science***, the University of Burdwan

First Class First in ***B.Sc. (H) in Environmental Science***, the University of Burdwan

Post-Graduate Merit-cum-Means Scholarship, GoWB, 2008-2010

RESEARCH

EXPERIENCES

Post-Doctoral Research

Post-doctoral Fellow, Korea Institute of Toxicology, Daejeon, Korea

Duration: June 1, 2019 to September 23, 2019

Research: System Toxicology Research Center, Dept. of Predictive Toxicology

Supervisor: Prof. Woo Keun Kim, Korea Institute of Toxicology, Daejeon, Korea

Post-doctoral Fellow, Research Institute of Basic Sciences, Dept. of Marine Science,
Incheon National University, Incheon, Korea

Duration: April 27, 2018 to May 31, 2019

Research: Blue Carbon Biomass Project

Supervisor: Prof. Jang Kyun Kim, Incheon National University, Korea

Research Professor, Division of Environmental Science and Ecological Engineering,
Korea University, Seoul, South Korea

Duration: April 1, 2015 to March 31, 2018

Research: Effects of Climate Change on Aquatic Ecosystem

Supervisor: Prof. Jinho Jung, Korea University, Korea

Part-time Researcher, Dept. of Environment and Labour Safety, Ton Duc Thang
University, Vietnam

Duration: May 1, 2018 to November 30, 2021

Research: Environmental Quality, Atmospheric Science and Climate Change

Supervisor: Prof. Nguyen Duc Hiep, Ton Duc Thang University, Vietnam

Doctoral Research

DST INSPIRE Fellow, Ecotoxicology Lab, Department of Environmental Science, The
University of Burdwan, India

Duration: March 1, 2011 to January 27, 2015

Supervisor: Prof. Apurba Ratan Ghosh, The University of Burdwan, India

Thesis title: Evaluation of Pathological Biomarkers and Genotoxicity in Different Fish
Species like *Anabas testudineus* (Bloch), *Heteropneustes fossilis* (Bloch) and
Oreochromis niloticus (Linnaeus) under the Long-Term Exposure of Two Herbicides,
Almix and Glyphosate

Research during M.Sc.

Supervisor: Prof. Apurba Ratan Ghosh, Department of Environmental Science, The
University of Burdwan, India

Project title: Effectiveness of Almix in Aquatic Weed Control as Well as on Fish Health
and Soil and Water Quality

Research during B.Sc.

Project title: Physicochemical Characteristics of Arambag Paper Mill Effluent,
Arambag, Hooghly, W.B. and Study of Biodiversity and Soil Profile and Quantitative
Characteristics of Plant Community

TEACHING

EXPERIENCE

Assistant Professor, Dept. of Environmental Science, Sukanta Mahavidyalaya, West Bengal, India (*From September 24, 2019 to till today*)

Fall Semester, 2017 (Division of Environmental Science & Ecological Engineering, Korea University, Seoul, South Korea)

AREA OF

RESEARCH

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

PERSONAL

DETAILS

Father's name : Jagannath Samanta
Date of Birth : October 14, 1987
Nationality : Indian
Religion : Hinduism
Cast : General
Marital status : Married

Residential address : 62/D, Shantiniketan Pally, Ward No – 13
Parul, Arambagh, Hooghly
Pin – 712601
West Bengal, India

SKILLS & ABILITIES

Professional Skill

- Experienced in field and lab work
- Expertise in MS Office
- Experienced in SPSS and Minitab
- Strong writing and editing skill

Soft skill

- Excellent problem solving, critical thinking, decision making and analytical skills
- Strong independent skill and excellent teamwork skill
- Capable to develop new methodologies
- Well organized interpersonal relationship and strong communication skill

PUBLICATIONS AND PRESENTATIONS

Publications Summary

Article – 77; Book – 1; Book Chapter – 23; Communicated - 6
Total citation: 738 h-index – 14 i10-index – 21 IF – 183.236

BOOK PUBLISHED

1. Senapati, T., Ghosh, A. R. and **Samanta, P.** 2013. Herbicide Toxicity on Fish: Emphasis on Glyphosate & Almix. **LAP LAMBERT Academic Publishing** (Germany), ISBN-10: 365946418X, ISBN-13: 978-3659464188

BOOK CHAPTER PUBLISHED

1. Goswami, S., Bakshi, U.G., Samanta, P. and Adhikari, M.D. 2025. Wastes from electrical and Electronic Equipment (WEEE) – A New Threat to Human, Animal and Environmental Health, in: Goswami, S., Choudhury, M. and Agarwal, S. (Eds.), **Electronic Waste – Impact on Health, Animals, and the Environment, CRC Press, pp. 00-00, 2025.** ISBN 9781032949055
2. Dey, S., Ghosh, A.R., Santra, M., Karjee, S. and Samanta, P. 2025. E-wastes and Contamination of Air, in: Goswami, S., Choudhury, M. and Agarwal, S. (Eds.), **Electronic Waste – Impact on Health, Animals, and the Environment, CRC Press, pp. 00-00, 2025.** ISBN 9781032949055
3. Dey, S., Santra, M., Ghosh, A.R. and Samanta, P. 2024. Global Solutions for Integrated Water Resources Management in Cities Throughout the World, in: Pal, S.C., Roy, S.S., Saha, A. and Abioui, M. (Eds.), **Water Resources Monitoring, Management, and Sustainability, Elsevier Press, pp. 351-385, 2024.** DOI: <https://doi.org/10.1016/B978-0-443-23665-5.00015-6> ISBN 978-0-443-23665-5
4. **Samanta, P.**, Dey, S., Ghosh, A.R. and Md. Moniruzzaman. 2024. Environmental Concern and Recent Advances in Management of Pandemic-Associated Biomedical Wastes: Case Studies on India and Bangladesh, in: Choudhury, M., Rajpal, A., Goswami, S., Chakravorty, A. and Vimala, R. (Eds.), **Analytical Case Studies on Municipal and Biomedical Waste Management, CRC Press, pp. 00-00, 2024.** DOI: <https://doi.org/10.1201/9781003499695> ISBN 9781003499695
5. Kundu, D., **Samanta, P.**, Dey, S., Dutta, D., Rautela, R., Chintagunta, A.D., Sampath Kumar, N.S., Mishra, R., Sherpa, K.C., Muneshwar, S., Motghare, A. and Kumar, S. 2024. Bioremediation and Biodegradation Importance and Recent Development, in: Gautam, P., Kumar, V. and Kumar S. (Eds.), **Solid Waste Treatment Technologies Challenges and Perspectives, CRC Press, pp. 173-208, 2024.** ISBN 9781003352396
6. Dey, S., Mondal, T., Karjee, S. and **Samanta, P.** 2024. Waste Management Towards Achieving Environmental Sustainability: Some Perspectives, in: Singh, P., Borthakur, S. (Eds.), **Trash or Treasure - Entrepreneurial Opportunities in Waste Management, Springer Nature Switzerland, pp. 207-230, 2024.** DOI: https://doi.org/10.1007/978-3-031-55131-4_8 ISBN 9781003197737
7. Dey, S., Mondal, T., Samanta, P. 2023. Polyaromatic Hydrocarbons (PAHs): Sources, Distribution, and Health Impacts in Aquatic Vertebrates, in: Singh, R., Singh, P., Tripathi, S., Chandra, K. K., Bhadouria, R. (Eds.), **Xenobiotics in Urban Ecosystems, Springer Nature, pp. 185-208.** Doi: **10.1007/978-3-031-35775-6** **ISBN 978-3-031-35774-9**

8. Senapati, T., **Samanta, P.**, Singh, K., and Ghosh, A.R. 2023. Impacts of Low Carbon Economy (LCE) in India: A Review, in: Das, R.C. (Eds.), *Economic, Environmental and Health Consequences of Conservation Capital-A Global Perspective*, Springer Nature, pp. 111-125. Doi: [10.1007/978-981-99-4136-0_9](https://doi.org/10.1007/978-981-99-4136-0_9) ISBN: 978-981-99-4136-0
9. **Samanta, P.**, Dey, S., Sen, S., and Adhikari, M.D. 2023. Biogenic Metal Nanoparticles: A Sustainable Alternative to Combat Drug-Resistant Pathogens, in: Saha, T., Adhikari, M.A. and Tiwari, B.K. (Eds.), *Recent Trends and The Future of Antimicrobial Agents (Part 2)*, Bentham Science Publishers, pp. 142-171. ISBN: 978-981-5123-98-2
10. Gogoi, N., **Samanta, P.** and Dahutia, P. 2023. Agro-Wastes as Low-Cost Bio-sorbent for Dyes Removal from Wastewater, in: Singh, P., Sharma, A., Choudhury, M., Suruchi, S. (Eds.), *Agriculture Waste Management and Bioresource: The Circular Economy Perspective*, Wiley UK, pp. 149-172. ISBN: 978-1-119-80813-8
11. **Samanta, P.**, Senapati, T., Dey, S. and Ghosh, A.R. 2023. An overview of Biomass Conversion from Agricultural Waste: Address on Environmental Sustainability, in: Singh, P., Sharma, A., Choudhury, M., Suruchi, S. (Eds.), *Agriculture Waste Management and Bioresource: The Circular Economy Perspective*, Wiley UK, pp. 46-77, 2022. ISBN: 978-1-119-80813-8
12. **Samanta, P.**, Dey, S., Kundu, D. and Ghosh, A.R. 2023. Effect of Co-Digestion and Pretreatment on the Bio-Hythane Production, in: Kumar, S., Sufi, R. (Eds.), *Biofuels: Technologies, Policies, and Opportunities*, CRC Press, pp. 355-385, 2023. DOI: [10.1201/9781003197737-22](https://doi.org/10.1201/9781003197737-22) ISBN 9781003197737
13. Adhikari, M.D. and **Samanta, P.** Nanomaterial-based food packaging: Recent development, challenges and future prospects, in: Singh, Y.D., Panda, M.K., Satapathy, K.B. (Eds.), *Nanotechnology-based Interventions for Sustainable Agriculture*, Bentham Science Publishers, Inc., pp. 00-00, 2021. (Accepted)
14. **Samanta, P.**, Senapati, T., Dey, S., Ghosh, A.R. and Pal, S. 2022. Life Cycle Assessment of Biohydrogen from Biomass, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-9, 2021. https://doi.org/10.1007/978-981-16-4921-9_165-1
15. Senapati, T., **Samanta, P.**, Ghosh, A.R. and Dey, S. 2022. Green Material from Plant Oils, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-8. https://doi.org/10.1007/978-981-16-4921-9_125-1
16. Adhikari, M.D. and **Samanta, P.** 2022. Chitosan-Based Composites as Sustainable Food Packaging Materials, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-11. https://doi.org/10.1007/978-981-16-4921-9_92-1
17. **Samanta, P.**, Dey, S., Ghosh, A.R. and Senapati, T. 2022. Life Cycle Assessment of Bioplastics, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-6. https://doi.org/10.1007/978-981-16-4921-9_164-1
18. Senapati, T., Dey, S., Ghosh, A.R. and **Samanta, P.** 2022. Bioplastic as Potential Food Packaging Materials, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-8. https://doi.org/10.1007/978-981-16-4921-9_89-1
19. **Samanta, P.** and Ghosh, A.R. 2022. Green Nanomaterials Synthesis from Third-Generation Algae, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-8. https://doi.org/10.1007/978-981-16-4921-9_21-1

20. Dey, S., Senapati, T., Ghosh, A.R. and **Samanta, P.** 2022. Green Electrospun Nanofibers, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-8. https://doi.org/10.1007/978-981-16-4921-9_185-1
21. **Samanta, P.**, Senapati, T., Ghosh, A.R. and Dey, S. 2022. Third Generation Biofuels Using Green Algae, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-7. https://doi.org/10.1007/978-981-16-4921-9_105-1
22. Dey, S., **Samanta, P.**, Senapati, T., Ghosh, A.R. and Pal, S. 2022. Second-Generation Biofuels Towards Environmental Sustainability, in: Baskar, C., Ramakrishna, S., Rosa, A.D.L. (Eds.), *Encyclopedia of Green Materials*, Springer Nature, pp. 1-8. https://doi.org/10.1007/978-981-16-4921-9_104-1
23. **Samanta, P.**, Dey, S., Jung, J. and Ghosh, A.R. 2022. Mechanism of Metal Sorption by Biochar, in: Kapoor, R.T., Shah, M. (Eds.), *Biochar - Applications for Bioremediation of Contaminated Systems*, DE GRUYTER, Germany, pp. 117-145, 2022. <https://doi.org/10.1515/9783110734003-006> ISBN: 978-3-11-073858-2
24. 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
25. 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
26. Ghosh, A.R., **Samanta, P.** and Koley, 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
27. **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

PAPERS PUBLISHED

1. 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
2. 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*. <https://doi.org/10.1007/s11356-024-34252-3> (IF – 5.8) Springer, ISSN: 1614-7499
3. 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

4. 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> **WILEY**, *ISSN: 1520-6483*
5. 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 – 4.9**) **Springer**, *ISBN: 1573-2975*
6. 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 – 5.8**) **Springer**, *ISSN: 1573-2959*
7. 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*
8. 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*
9. **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*
10. 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*
11. 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*. <https://doi.org/10.1007/s11356-023-29063-x> (**IF – 5.8**) **Springer**, *ISSN: 1614-7499*
12. 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*
13. 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*
14. **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>
15. 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*
16. **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*

17. 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
18. 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
19. 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
20. **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
21. 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
22. 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
23. **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
24. 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
25. **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
26. **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
27. 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
28. 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
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ORAL PRESENTATIONS

1. “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
2. “Toxicity Assessment of Almix and Excel Mera 71 Herbicides in *Anabas testudineus*” in 9th International Conference on Ecology and Environment June 22-24, 2023, at Burdwan, West Bengal, India
3. “Toxicity Assessment of Almix and Excel Mera 71 in *Heteropneustes fossilis*” in 5th Regional Science and Technology Congress – 2022-23 January 17-18, 2023, at Coochbehar, West Bengal, India
4. “Neurotoxicity Induced by Almix and Excel Mera 71 in *Heteropneustes fossilis*” in International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy (BSBB-2022) December 7-11, 2022, at Guwahati, Assam, India
5. “Neurotoxicity Assessment of Almix and Excel Mera 71 Herbicides in *Anabas testudineus*” in WORLD ENVIRONMENT SUMMIT 2022 October 15 & 16, 2022, at New Delhi, India
6. “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) August 11 & 12, 2022, at Tamil Nadu, India
7. “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) April 4 to 8, 2021, Rajasthan, India
8. “Assessment of Herbicide-Induced Histopathological Alterations in Brain Optic Tectum of *Heteropneustes fossilis*” in International E-Conference on Bioprospecting (ICONBIO) January 29 & 30, 2021, Tiruvannamalai, Tamilnadu, India
9. “Effects of Almix and Excel Mera 71 Herbicides on Brain Morphology of *Oreochromis niloticus*” in 4th World Clean Environment Summit 2020 on December 22 to 24, 2020, Kolkata, West Bengal, India
10. “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” August 27 to 29, 2020, Burdwan, West Bengal, India
11. “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” December 9th & 10th, 2019, Burdwan, West Bengal, India

12. ***“Assessment of Salinity Tolerance Based on Physiological and Oxidative Stress Responses in Ulva and Pyropia”*** in ***“23rd International Seaweed Symposium”*** April 28th – May 3rd, 2019, Jeju, Korea, 2019
13. ***“Toxicity Assessment of a Contaminated Stream by Industrial Effluents using Wild Fish Zacco platypus”*** in ***“2017 International Environmental Engineering Conference”*** November 15-17, Jeju, Korea, 2017
14. ***“Chronic Cytopathological Effects of Almix Herbicide under Field and Laboratory Conditions”*** in ***2nd International Conference on “Mother Earth: Save it to Achieve a Sustainable Future for All”*** December 10-12, Dept of Environmental science, Burdwan, 2014
15. ***“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 ***4th International Conference on “Anthropogenic Impact on Environment and Conservation Strategy”*** November 2-4, Depts. of Zoology and Botany, St. Xavier’s College, Ranchi, 2013

SEMINAR AND CONFERENCE ATTENDED

1. Attended ***“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
2. Attended ***“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
3. Attended ***“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
4. 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
5. Attended ***“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
6. Attended ***“WORLD ENVIRONMENT SUMMIT 2022”*** held on October 15 & 16, 2022, at New Delhi, India organized by Environment and Social Development Association (ESDA) Delhi
7. Attended ***“RSC-IITM Desktop Seminar on Environmental Science”*** held on October 12, 2022 organized by RSC Publishing Webinars
8. Attended ***“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
9. Attended ***“International Conference on Toxicology”*** held on April 27 & 28, 2022, at Tamil Nadu, India organized by Padmavani Arts and Science College for Women
10. 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

11. Attended “***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
12. Attended “***International E-Conference on Bioprospecting (ICONBIO)***” held on January 29 & 30, 2021, at Tiruvannamalai, Tamilnadu, India organized by Arunai Engineering College
13. Attended “***4th World Clean Environment Summit 2020***” held on December 22 to 24, 2020, Kolkata, West Bengal, India organized by Barrackpore Rastraguru Surendranath College
14. Attended “***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
15. 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
16. 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
17. 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
18. 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
19. 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
20. Attended “***4th Regional Science & Technology Congress (Western Region), 2019***” held on December 9th & 10th at Burdwan, India organized by The University of Burdwan
21. Attended the International Conference “***23rd International Seaweed Symposium***” held on April 28th – May 3rd, 2019 at Jeju, Korea organized by The Korean Society of Phycology
22. Attended the International Conference “***2017 International Environmental Engineering Conference***” held on November 15-17, 2017 at Jeju, Korea organized by Korean Society of Environmental Engineers
23. 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
24. Attended one-day Colloquium on “***Modern Trends in Biotechnology***” held on 18th February, 2015 organized by Dept. of Biotechnology, The University of Burdwan
25. Attended 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
26. Attended 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

27. Attended one-day Seminar on “***Aquaculture & Probiotics***” held on 7th December, 2011 organized by Dept. of Zoology, The University of Burdwan
28. 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

WORKSHOP AND TRAINING ATTENDED

1. Attended Online Orientation Programme for “***Content Writers and Editors of PG Environmental Science***” organized by Netaji Subhash Open University held on October 22, 2022
2. Attended Online Workshop on “***Amino Acids, Peptides and Proteins***” organized by Biodukator held on July 3, 2022
3. 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
4. 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
5. 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
6. Attended Online Training Programme on “***National Intellectual Property Awareness Mission***” organized by Intellectual Property Office, GoI held on December 3, 2021
7. Attended Online Training Programme on “***Media and Disaster Management***” organized by NIDM, Ministry of Home Affairs, GoI held from August 19 to 21, 2020
8. 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
9. 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
10. 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
11. 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
12. 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
13. 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
14. 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

15. Attended Web Workshop on “***Easy Implementation of LMS in Your Institutions***” organized by Skill to Hire, India held from July 25 to 26, 2020
16. Attended Online Workshop on “***Research Patent & Development of Industry-Academia Collaborations***” organized by IQAC, University of Science & Technology Meghalaya held on July 23, 2020
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. Attended Online Training Programme on “***Data Science and Role of Technology***” organized by NIDM, Ministry of Home Affairs, GoI held on June 9, 2020
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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

32. 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.

FACULTY DEVELOPMENT PROGRAM ATTENDED

1. Attended UGC-Sponsored ‘***45th Faculty Induction Program Conducted Online***’ organized by UGC-HRDC, Punjabi University, India held from October 3 to 31, 2020
2. 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
3. Attended Online “NEP 2020 Orientation & Sensitization Programme” organized by the University of North Bengal, India held from March 15 to 23, 2024
4. 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
5. Attended Online International Faculty Development Program on “***Research Methodology***” organized by Kamala Nehru Mahavidyalaya, India held from May 2 to 7, 2022
6. 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
7. Attended Online National Faculty Development Program on “***Research Methodology***” organized by Kamala Nehru Mahavidyalaya, India held from April 26 to May 1, 2021
8. 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
9. Attended Online National Faculty Development Program on “***Online Teaching Tools***” organized by Rajah Serfoji Government College, Tamilnadu, India held on August 18, 2020
10. 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
11. 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
12. 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
13. 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
14. Attended Online International Faculty Development Program on “***Gender Sensitization***” organized by Barabazar Bikram Tudu Memorial College Purulia held from July 25 to 31, 2020
15. 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

16. 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

ABSTRACT PUBLISHED

1. Abstract entitled on “*Assessment of Anthropogenic Impacts in Disturbed and Undisturbed Soil of Morigaon, Assam*” by **Navamallika Gogoi, Arunima Sarma, Moharana Choudhury, Palas Samanta** accepted and published in Proceedings of “*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
2. Abstract entitled on “*Toxicity Assessment of Almix and Excel Mera 71 Herbicides in Anabas testudineus*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “*9th International Conference on Ecology and Environment*” held on June 22-24, 2023, at Burdwan, West Bengal, India
3. Abstract entitled on “*Toxicity Assessment of Almix and Excel Mera 71 in Heteropneustes fossilis*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “*5th Regional Science and Technology Congress – 2022-23*” held on January 17-18, 2023, at Coochbehar, West Bengal, India
4. Abstract entitled on “*Neurotoxicity Induced by Almix and Excel Mera 71 in Heteropneustes fossilis*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “*International Conference on Biotechnology, Sustainable Bioresources and Bioeconomy (BSBB-2022)*” held on December 7-11, 2022, at Guwahati, Assam, India
5. Abstract entitled on “*Neurotoxicity Assessment of Almix and Excel Mera 71 Herbicides in Anabas testudineus*” by **Palas Samanta**, Sandipan Pal, Tarakeshwar Senapati, Alope Kumar Mukherjee, Sukhendu Dey and Apurba Ratan Ghosh accepted and published in Proceedings of “*WORLD ENVIRONMENT SUMMIT 2022*” held on October 15 & 16, 2022, at New Delhi, India
6. Abstract entitled on “*Neurotoxicity Induced by Almix and Excel Mera 71 in Anabas testudineus*” by **Palas Samanta**, Sandipan Pal, Tarakeshwar Senapati, Alope Kumar Mukherjee, Sukhendu Dey and Apurba Ratan Ghosh accepted and published in Proceedings of “*Indo-USA International Conference on Applications of Nanotechnology in Biology, Biotechnology and Biopharmaceuticals (ICNB3)*” held on August 11 & 12, 2022, at Tamil Nadu, India
7. Abstract entitled on “*Evaluation of Health Status of Oreochromis niloticus Based on Brain Optic Tectum Morphopathology*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “*International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BASEH-2021)*” held on April 4 to 8, 2021 at Rajasthan, India
8. Abstract entitled on “*Assessment of Herbicide-Induced Histopathological Alterations in Brain Optic Tectum of Heteropneustes fossilis*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “*International E-Conference on Bioprospecting (ICONBIO)*” held on January 29 & 30, 2021 at Tiruvannamalai, Tamilnadu, India
9. Abstract entitled on “*Effects of Almix and Excel Mera 71 Herbicides on Brain Morphology of Oreochromis niloticus*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “*4th World Clean environment Summit 2020*” held on December 22 to 24, 2020 at Kolkata, West Bengal, India
10. Abstract entitled on “*Histopathological Manifestations in Brain Optic Tectum: A Good Tool to Assess Neurotoxicity of Environmental Stressors*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and

published in Proceedings of “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

11. Abstract entitled on “*Histopathological Manifestations of Sub-Chronic Toxicity of Almix and Excel Mera 71 Herbicides in Brain (Optic Tectum) of Anabas testudineus*” by **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of “4th Regional Science & Technology Congress (Western Region), 2019” held on December 9th & 10th at Burdwan, India
12. Abstract entitled on “*Assessment of salinity tolerance based on physiological and oxidative stress responses in Ulva and Pyropia*” by **Palas Samanta**, Sookkyung Shin, Sojin Jang and Jang K Kim accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
13. Abstract entitled on “*Assessment of phytoremediation potentiality of lead (Pb) by Gracilaria*” by Youngwoo Kim, **Palas Samanta**, Sojin Jang, Sookkyung Shin and Jang K. Kim accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
14. Abstract entitled on “*Effects of the sources of light on growth, phosphate uptake and photosynthetic efficiency in Ulva*” by Hohyeon Lee, **Palas Samanta**, Hojun Lee, Sojin Jang, Sookkyung Shin and Jang K. Kim accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
15. Abstract entitled on “*Growth, pigment contents and nutrient uptake capacity of Pyropia yezoensis under LED lightings*” by Hyein Song, **Palas Samanta**, Sojin Jang, Sookkyung Shin and Jang K. Kim accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
16. Abstract entitled on “*Effect of Kelpak® on growth and temperature tolerance in Pyropia*” by Yu Jung Cho, Jang K. Kim, Sookkyung Shin, **Palas Samanta**, Sojin Jang and Charles Yarish accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
17. Abstract entitled on “*Thermal stress effect on growth and color histogram of Pyropia collected from different vertical habitats*” by Sol Han, **Palas Samanta**, Sojin Jang, Sookkyung Shin and Jang K. Kim accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
18. Abstract entitled on “*Emersion effect on growth, pigments and biochemical responses in Pyropia yezoensis*” by Sojin Jang, Sookkyung Shin, **Palas Samanta** and Jamg K Kim accepted and published in Proceedings of “23rd International Seaweed Symposium” held on April 28 – May 3, 2019 at Jeju, Korea
19. Abstract entitled on “*Growth, Pigment Contents and Nutrient Uptake of Ulva sp. under LED Lightings*” by Hyein Song, **Palas Samanta**, Sojin Jang, Sookkyung Shin and Jang K. Kim accepted and published in Proceedings of “11th International Conference on Environmental Health Sciences” held on October 14-16, 2018 at Yeosu, Korea
20. Abstract entitled on “*Growth Comparisons of Two Pyropia Strains under Different Temperatures*” *Effects of temperature on growth of Pyropia collected from different vertical habitats*” by Sol Han, **Palas Samanta**, Sojin Jang, Sookkyung Shin and Jang K. Kim accepted and published in Proceedings of “11th International Conference on Environmental Health Sciences” held on October 14-16, 2018 at Yeosu, Korea
21. Abstract entitled on “*Application of Acadian Marine Plant Extract Powder (AMPEP) from Ascophyllum nodosum to Pyropia Cultivation*” by Sojin Jang, Hyesung Hwang, Sookkyung Shin, **Palas Samanta** and Jamg K Kim accepted and published in Proceedings of “11th International Conference on Environmental Health Sciences” held on October 14-16, 2018 at Yeosu, Korea

22. Abstract entitled on “*Effect of Emersion Stress on Growth, Pigment Contents and Biochemical Responses in Pyropia yezoensis Biochemical Responses of Pyropia yezoensis under Emersion Stresses*” by Sojin Jang, Sookkyung Shin, **Palas Samanta** and Jamg K Kim accepted and published in Proceedings of “11th International Conference on Environmental Health Sciences” held on October 14-16, 2018 at Yeosu, Korea
23. Abstract entitled on “*Toxicity Assessment of a Contaminated Stream by Industrial Effluents using Wild Fish Zacco platypus*” by **Palas Samanta**, Hyungjoon Im, Joorim Na, Jisu Yoo and Jinho Jung accepted and published in Proceedings of “2017 International Environmental Engineering Conference” held on November 15-17, 2017 at International Convention Center, Jeju, Korea
24. Abstract entitled on “*Seasonal Variation of Oxidative Stress and Histopathological Alterations in Carassius auratus Affected by Effluent from a Sewage Treatment Plant*” by Hyungjoon Im, **Palas Samanta**, and Jinho Jung accepted and published in Abstract Book of “7th SETAC World Congress/SETAC North America 37th Annual Meeting” held on November 6-10, 2016 at Orlando, Florida
25. Abstract entitled on “*Chronic Cytopathological Effects of Almix Herbicide under Field and Laboratory Conditions*” by **Palas Samanta**, Sandipan Pal, Aloke Kumar Mukherjee, Tarakeshwar Senapati and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan, Burdwan
26. Abstract entitled on “*Bioaccumulation of Glyphosate Herbicide in Macrophytes and Fish Tissues and Its Enzymological Responses in Fishes*” by Sukhendu Dey, **Palas Samanta**, Sandipan Pal, Aloke Kumar Mukherjee, Debraj Kole and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan, Burdwan
27. Abstract entitled on “*Effects of Glyphosate-Based Herbicides, Excel Mera 71 on Histopathological and Ultrastructural Responses of Oreochromis niloticus under Field and Laboratory Conditions*” by Pragya Kumari, **Palas Samanta**, Sandipan Pal, Aloke Kumar Mukherjee, Debraj Kole and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan, Burdwan
28. Abstract entitled on “*Evaluation of Biomarkers and Comparative Toxicity of Glyphosate (Excel Mera 71) in Some Organs of Anabas testudineus (Bloch) under Field and Laboratory Conditions*” by Sandipan Pal, **Palas Samanta**, Aloke Kumar Mukherjee, Debraj Kole and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan
29. Abstract entitled on “*Comparative Study of Dose-Duration of Glyphosate Toxicosis on Lamellidens marginalis (Lamarck)*” by Antara Ghosal, Sandipan Pal, Aloke Kumar Mukherjee, Debraj Kole, **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan, Burdwan
30. Abstract entitled on “*Effects of Arsenic on Tissue-Specific Biochemical Parameters in Freshwater Fish, Channa punctatus (Bloch)*” by Debraj Kole, Niladri Sekhar Mondal, Sandipan Pal, Aloke Kumar Mukherjee, **Palas Samanta** and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan, Burdwan

31. Abstract entitled on “*Nutritional Status of Some Freshwater Teleosts*” by Sunanda Batabyal, Alope Kumar Mukherjee, Sandipan Pal, **Palas Samanta**, Debraj Kole and Apurba Ratan Ghosh accepted and published in Proceedings of 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, the University of Burdwan, Burdwan
32. Abstract entitled 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*” by **Palas Samanta**, Sandipan Pal, Alope Kumar Mukherjee, Tarakeswar Senapati and Apurba Ratan Ghosh accepted and published in Proceedings of 4th International Conference “*Anthropogenic Impact on Environment and Conservation Strategy*” held on November 2-4, 2012 at Dept. of Zoology, Ranchi University, Ranchi and Depts. of Zoology and Botany, St. Xavier’s College, Ranchi
33. Abstract entitled on “*Effectiveness of Almix in Controlling Aquatic Weeds in Natural Condition*” by **Palas Samanta**, Tarakeswar Senapati, Alope Kumar Mukherjee, Subinoy Mondal, Smaranya Haque and Apurba Ratan Ghosh accepted and published in UGC sponsored National Symposium on “*Pollution: Disbalancing the Global Environment: Threats and Prevention*” held on March 5th & 6th, 2011 at Bolpur College, Bolpur, WB, India

SCIENTIFIC ARTICLES

1. **Samanta, P.** 2008. *Food crisis – A global problem*. In Souvenir: Environmental Science

ACADEMIC ASSIGNMENTS

1. **Text Writer of Self Learning Materials (SLM)** of Post Graduate Programme appointed by Netaji Subhas Open University (vide letter no. SoSci/2031 (vi), Dt. 28/03/2022)
2. 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
3. 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
4. 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
5. 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

ADMINISTRATIVE ASSIGNMENTS

1. 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
2. **Nodal Officer** of West Bengal Students’ Credit Card (WBSCC) scheme appointed by Sukanta Mahavidyalaya (vide letter no. 2021/SMV/84(A), Dt. 08/06/2021)

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. **Expert Member** of the Green Audit Team of Vivekananda College, Alipurduar in January 2020 appointed by University of North Bengal (vide letter no. 343/VC/2020, Dt. 03/01/2020)
5. 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

SCIENTIFIC PAPER REVIEWERS

1. Manuscript No.: STOTEN-D-23-36582, *Science of the Total Environment*, 2024; **ISSN: 1573-2959**
2. Manuscript No.: ao-2023-08535q, *ACS OMEGA*, 2023; **ISSN: 1573-2959**
3. Manuscript No.: EMAS-D-17-00514, *Environmental Monitoring and Assessment*, 2023; **ISSN: 1573-2959**
4. MS No.: JESE-2022-105, *Journal of Environmental Science & Engineering*, 2021; **ISSN: 0367-827 X**
5. MS No.: ENVI-D-22-02775, *Environment, Development and Sustainability*, 2022; **ISSN: 1387-585X**
6. MS No.: MF22016, *Marine and Freshwater Research*, 2022; **ISSN: 1323-1650**
7. MS No.: ESPR-D-22-00663, *Environmental Science and Pollution Research*, 2022; **ISSN: 1614-7499**
8. Manuscript No.: SCIAF-D-21-01628, *Scientific African*, 2021; **ISSN: 2468-2276**
9. Manuscript No.: AQUA_D_21-01099R1, *Aquaculture*, 2021; **ISSN: 0044-8486**
10. MS No.: JESE-2021-080, *Journal of Environmental Science & Engineering*, 2021; **ISSN: 0367-827 X**
11. MS No.: JESE-2021-071, *Journal of Environmental Science & Engineering*, 2021; **ISSN: 0367-827 X**
12. Manuscript No.: AQUA_2020_2967, *Aquaculture*, 2020; **ISSN: 0044-8486**
13. Manuscript No.: INDIC-107, *Environmental and Sustainability Indicators*, 2020; **ISSN: 2665-9727**
14. Manuscript No.: AQUA_2020_1529, *Aquaculture*, 2020; **ISSN: 0044-8486**
15. MS No.: ESPR-D-20-01211, *Environmental Science and Pollution Research*, 2020; **ISSN: 1614-7499**
16. Manuscript No.: EGG-D-20-00013, *Ecological Genetics and Genomics*, 2020; **ISSN: 2405-9854**
17. MS No.: ENVI-D-19-01349R1, *Environment, Development and Sustainability*, 2020; **ISSN: 1387-585X**
18. MS No.: AJWEP/713/230118, *Asian J. Water, Environment and Pollution*, 2018; **ISSN: 0972-9860**
19. Manuscript No.: ECOLIND-8708, *Ecological Indicators*, 2017; **ISSN: 1470-160X**
20. Manuscript No.: EMAS-D-17-00514, *Environmental Monitoring and Assessment*, 2017; **ISSN: 1573-2959**
21. Manuscript No.: IJESD_174181, *Int. J. Environ. Sustain. Development*, 2017; **ISSN: 1478-7466**
22. Manuscript ID: JTEHS-28.12.14-0327, *J. Toxicol. Environ. Health Sci.*, 2014; **ISSN: 2006-9820**
23. Manuscript ID: AJB-09.08.14-14095, *African Journal of Biotechnology*, 2014; **ISSN: 1684-5315**
24. Manuscript No.: JMPR-15.10.14-5647, *Journal of Medicinal Plant Research*, 2014; **ISSN: 1996-0875**
25. Manuscript No.: LifeSci-14-718, *Fisheries and Aquaculture Journal*, 2014; **ISSN: 2150-3508**

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Declaration

I hereby declare that the information furnished herewith are true to the best of my knowledge.

Place: Arambagh, WB, India
Date: 29.11.2024

Palas Samanta

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