

PERSONAL
PROFILE

Name: SAIKAT MONDAL

Designation: Assistant Professor in Zoology

Department: Zoology

Date of Joining: 04-02-2017

Academic Qualification: M.Sc. in Zoology with specialization in Molecular Endocrinology & Mammalian Reproductive Physiology from Banaras Hindu University (BHU) in the year 2010.

Date of birth: 04-06-1988

Office address: Raghunathpur College, Raghunathpur, Purulia- 723133.

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Permanent address: Vill: New Egara, Po: Egara, Dist: Burdwan, Pin: 713323, West Bengal

Email: sairaniganj@gmail.com

Area of Teaching: Genetics, Cell & Molecular Biology
Ecology & Classical Zoology

Research experience: 6 years.

Ph.D.: Pursuing

Field of Interest (Research): Field Ecology, Pitlake & wetland Ecology, Endocrinology.

National/International/ Seminars/Webinar/Conferences/Workshops attended:

Sl. No.	Courses/Theme	Sponsoring Agency	Institutions where held	Date
1.	Present a paper entitled "Study of Coal Mine Generated Open Pit Lakes in Raniganj Coal Field Area, West Bengal Towards Achieving Sustainable Ecosystems and Value for Communities"	CSIR	Raja Narendra Lal Khan Women's College	2 and 3 rd March, 2023
2.	Present a paper entitled "Rotifer Community Structure and Its Response	Virtual	C. Abdul Hakeem College (Autonomous	28-29 th Oct,2021



	to Environmental Factors in Coal Mine Generated Open-pit Lakes of Raniganj Coal Field, West Bengal, India			
3.	Present a paper entitled “ Snakes: conflict between science and superstition” in one day national seminar on snake, snake bite and snake charming: myth, reality and challenges.	West Bengal Biodiversity Board	Achhruram Memorial College, Jhalda, Purulia	4 th December, 2019
4.	Present a paper entitled “water quality status and available resources of pit	Dst-Purse. Govt. of India	Department of Zoology, The The University of	3rd to 4th January , 2019.

	lakes of Raniganj coal field area (rcf): implications for conservation and sustainable use". in two days international conference on Trends in Zoology.		Burdwan	
5	Present a paper entitled "Biotechnological tools for Environmental Sustainability- A Review" in Two days national seminar on "Advent of biotechnology in Life Processes"	BOOST III, DHESTBT, Govt. of West Bengal	Department of Biotechnology, The University of Burdwan.	22nd-23rd March, 2018
6	Present a paper entitled "Biolarvicides: an environment friendly tool to fight with mosquitoes" in 1st. International Conference on " frontiers in Biological, Environmental and Medical Sciences"	Dst-Purse(Phase2) Govt. of India	The University of Burdwan, West Bengal.	8th- 10th March, 2018
7	Present a paper entitled " Conflict between economy and ecology: the challenges of Environmental awareness in India " in an International Conference on "Facets of Basic Sciences & Applications".	UGC-CPE	Bijoy Krishna Girls' College, Howrah, West Bengal	5 th -7 th February, 2018
8	Participated in an International seminar on frontiers in Biological sciences	Dept. of Science & Technology, Govt. Of West Bengal	Dept. Of Microbiology, St. xavier's College, Kolkata	30 th January, 2018
9	Participated in 3 rd International Conference on Mother Earth: Environmental Crisis & Sustainable Strategies.	West Bengal Biodiversity Board	Dept. of Environmental Science, The University of Burdwan	11 th -13 th January, 2018
10	Two days Workshop on Expanding Molecular Approaches to Health & Welfare	UGC, Govt. of India	Department Of Biotechnology, The University of Burdwan	21 st -22 nd March, 2017

11	Workshop on Framing Of Semester Based UG syllabus (CBCS) of Zoology (Hons. & Regular Courses)	Sidho-Kanho-Birsha-University	Nistarini College, Purulia	15-03-2017
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Webinar attended

Participated in One Day International Webinar, 30th July, 2020 On COVID-19 & Recent trends in global health & healthcare Organized by, Department of Life Sciences In association with Internal Quality Assurance Cell Hooghly Women's College (Affiliated to The University of Burdwan).

Participated in Two Days National Level Webinar on Food for life: Nutrition strategies to prevent diseases Organized by, Department of Nutrition In association with Internal Quality Assurance Cell Hooghly Women's College on 24th-25th July, 2020. (Affiliated to The University of Burdwan).

Participated in the Webinar on "COVID-19: FACTS AND FACETS", Organised by the Internal Quality Assurance Cell (IQAC) of Sarat Centenary College, Dhaniakhali, Hooghly, W.B. on 26 June, 2020.

Participated in One Day International Webinar, 22nd September, 2020 On Coxiella burnetii and Lysosomes: a love-Hate Relationship organized by Dept. of Zoology in association with the Internal Quality Assurance Cell (IQAC), Panchakot Mahavidyalaya, (Affiliated to SKBU), Purulia, West Bengal.

Participated in Two Days National Level Webinar on Role of Guidance and career counselling in the perspective of present pandemic situation of Covid-19 organised by Mankar College, West Bengal. On 5th to 6th August, 2020.

Participated in Two Days National Level Webinar on Trends and development of biological research and academics in context to Covid-19 on 3rd July, 2020, organized by Michael Madhusudan Memorial College, West Bengal.

Participated in One Day National Webinar on Covid-19: Its effect on environment, organized by Vidyasagar College for women, Dept. of Geography on 12.06.2020.

Participated in One Day National Webinar on Science, Biology and the World's future, organized by the Dept. of Botany, Dinabandhu Andrews College on 25th, August.

Participated in the One day International Level Web-Seminar on Cancer: Molecular Biology & Artificial Intelligence Organized by Department of Zoology, GOUR MAHAVIDYALAYA Mangalbari, Malda, West Bengal in collaboration with the IQAC on 19th September, 2020.

Participated in the International Webinar entitled "COVID-19: Through the Eyes of Young Researchers" on July 3rd & 4th, 2020, organized by Dept. of Zoology, Surendranath College.

Participated in One-Day National Web-Seminar on Understanding Life in Light of Modern Research, organized by Department of Zoology, Michael Madhusudan Memorial College, Durgapur on 22nd August, 2020, Organized by Department of Zoology Michael Madhusudan Memorial College.

Participated in Two Days National Level Webinar on Sustainable biodiversity for sustainable livelihood organized by the dept. of Zoology and Botany, Raghunathpur College, West Bengal on 15th to 16th September, 2020

Recent Publication:

Chapter in Edited Volume:

Jayati Chakraborti, Saikat Mondal, Debnath Palit. (2023). Agroforestry and arthropod diversity for ecosystem services. In Jhariya et al (eds). Agroforestry for Carbon and Ecosystem Management. **Elsevier** [in press].

Palit, D., Mandal, S., Das, S., Palit, P.N., Bhattacharya, S. (2022). Assessment of Water Quality and Landscape Dynamics in Some Selected Pit Lakes of Andal Block, Paschim Bardhaman, West Bengal, India: A Geospatial Appraisal. In: Bhunia, G.S., Chatterjee, U., Lalmalsawmzauva, K., Shit, P.K. (eds) Anthropogeomorphology. Geography of the Physical Environment. **Springer**, Cham. https://doi.org/10.1007/978-3-030-77572-8_12

Jayati Chakraborti, Saikat Mondal, and Debnath Palit. (2022). Food and Nutrition Security in India Through Agroecology: New Opportunities in Agriculture System. In M. K. Jhariya et al. (eds.), Sustainable Intensification for Agroecosystem Services and Management, **Springer Nature**, https://doi.org/10.1007/978-981-16-3207-5_2

Mondal, S., Chattopadhyay, P., Banerjee, A., Palit, D. (2022). Floristic Composition and Inventorization of Forest Resources in Some Selected Forest Areas of Paschim Bardhaman District, West Bengal, India. In: Sahana, M., Arendran, G., Raj, K. (eds) Conservation, Management and Monitoring of Forest Resources in India. **Springer**, Cham. https://doi.org/10.1007/978-3-030-98233-1_8

Mondal S, and Palit D. (2020). Agroecology for Sustainable Food System and Footprint Mitigation in Banerjee A, Meena RS, Yadav DK and Jhariya MK (Eds.) Agroecological Footprints Management for Sustainable Food System. **Springer Nature**. pp: 69-114

Mondal S, and Palit D. (2021). Prospects and implementation of nanotechnology in environmental remediation and clean up in Banerjee A, Meena RS, Yadav DK and Jhariya MK (Eds.) Natural Resources Conservation and Recent Advances for Environmental Sustainability. **ELSEVIER**, <https://doi.org/10.1016/B978-0-12-822976-7.00020-X>

Mondal S, and Palit D. (2021). Challenges in natural resource management and ecological sustainability in Banerjee A, Meena RS, Yadav DK and Jhariya MK (Eds.) Natural Resources Conservation and Recent Advances for Environmental Sustainability. **ELSEVIER**, <https://doi.org/10.1016/B978-0-12->

[822976-7.00004-1](#)

SAIKAT MONDAL¹ and DEBNATH PALIT (2021). Sustainable Utilization and EcoRestoration of Wetlands: A Case Study from the Birbhum District of West Bengal, India. In Prasad et al (eds), Advances in sustainable development and management of environmental and natural resources : economic outlook and opinion. Apple Academic Press, CRC Press, **Taylor & Francis Group**

Mondal, S., Palit, D. (2021). Ecological Intensification for Sustainable Agriculture and Environment in India. In: Jhariya, M.K., Meena, R.S., Banerjee, A. (eds) Ecological Intensification of Natural Resources for Sustainable Agriculture. **Springer**, Singapore. https://doi.org/10.1007/978-981-33-4203-3_7

Mondal S, and Palit D. (2019). Effective role of Microorganism in Waste management and environmental sustainability in Jhariya Mk, Banerjee A, Meena RS and Yadav DK (Eds.) Sustainable Agriculture, Forest and Environmental Management. **Springer Nature**. pp: 485-515.

Mondal S, Palit D. (2019). Prospects of biotechnology towards sustainable environment in Jhariya Mk, Banerjee A, Meena RS and Yadav DK (Eds.) Recent Trends in Forestry, Environment and Sustainable Development. Apple Academic Press, CRC Press, **Taylor & Francis Group**.

Mondal S, and Biswas B. (2018). Biocontrol potential of Symbiotic bacterium Wolbachia against Mosquito-borne Diseases in Tyagi & Dhanasekaran (Eds.) Microbial Control of Vector Borne Diseases CRC Press, **Taylor & Francis Group**, Boca Raton London New York. pp 191- 207.

Journal Article:

Saikat Mondal, Debnath Palit & Niladri Hazra (2023) Spatial pattern analysis of zooplankton and surface water of pit lakes (Raniganj coal field, India), *Water Science*, 37:1, 98-116, DOI: 10.1080/23570008.2023.2221069

Saikat Mondal & Debnath Palit (2023) Ecological assessment of pit lakes in Raniganj, India: Application of different indices and multivariate statistics, *Water Science*, 37:1, 57-70, DOI: 10.1080/23570008.2023.2215573

Mondal, S., Palit, D. & Hazra, N. Study on composition and spatio-temporal variation of zooplankton community in coal mine generated pit lakes, West Bengal, India. *Trop Ecol* **64**, 352–368 (2023). <https://doi.org/10.1007/s42965-022-00274-6>

Mondal, S., Chattopadhyay, P., Banerjee, A. *et al.* Ecological assessment of tree communities and pedological characteristics of coal mine generated wastelands of Raniganj Coal Field Area, West Bengal, India. *Vegetos* **35**, 367–380 (2022). <https://doi.org/10.1007/s42535-021-00305-y>

Mondal S, Hazra N, Palit D (2021). Rotifer Diversity in Coal Mine Generated Pit Lakes of Raniganj Coal Field Area (RCF), West Bengal, India. *LimnoFish*.

Mondal S, Palit D, Chattopadhyay P (2020). Vegetation Analysis in Chora and Joyalbhanga Forest Area of Raniganj Coal Field, West Bengal, India. *Indian Journal of Ecology* 47(3): 831-841

Mondal S, Palit D, Chattopadhyay P. (2020). Impact of Mining on Tree Diversity of the Coal Mining Forest Area at Raniganj Coal Field Area of West Bengal, India. *Ecology, Environment and Conservation*. *Eco. Env. & Cons.* 26: S66-S72

Mondal S, Palit D. (2019). Evaluation of water quality using water quality index of pit lakes, Raniganj coal field area, West Bengal, India. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*. DOI: 10.26479/2019.0503.44.

Mondal S, Palit D. (2019). Inventory of Plant Species, Phytosociology and Species Diversity of Gunjan Ecological Park Pit Lake, West Bengal, India. *Int J Sc. Res Rev.* 8(2), 01-17.

Mondal S, Palit D, Chattopadhyay P. (2019). Species diversity and vegetation structure of coal mine generated wasteland of Raniganj Coal Field, West Bengal, India. *Int J Cur Res Rev | Vol 11(13)*. DOI:<http://dx.doi.org/10.31782/IJCRR.2019.11133>.

Palit D, Mondal S, Chattopadhyay P. (2018). Analyzing Water Quality Index of Selected Pit-Lakes of Raniganj Coal Field Area, India. *Environment and Ecology*. 36 (4A): 1167—**1175**.