

'Curriculum Vitae

1. Name: DR. SUDIPTA KUMAR GHORAI

2. Present Position & Office Address:

Principal
Ramananda College Bishnupur,
Bankura, West Bengal, PIN-
722122, India.

3. Research Centre: Supervisor at Centre for
Coastal Environmental Studies, Egra SSB
College under Vidyasagar University

4. Address for communication:

C/O- Sri Jagadis Chandra Ghorai
Vill.: Balavadrapur, P.O: Brajalalchak
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5. Nature of Employment: Regular

6. Date of Birth: 1st May 1981

7. Educational Qualification:

Degree	Year of completion	University/Institution	Subjects	% of Marks
Post Doc	14 th Nov, 2021	IISER Kolkata (funded by SERB TARE)	Integrated Taxonomy	Not Applicable
PhD	25 th July, 2016	Vidyasagar University	Zoology	Not Applicable
MPhil	23 rd Sep, 2005	Kalyani University	Environmental Science	71.6
M.sc *	2003	Vidyasagar University	Zoology Spl.- Ecology	73.2
B.Sc **	2001	Vidyasagar University	Zoology	68.5

* First class first gold medalist in M.Sc. (2003).

** First class first gold medalist in B.Sc (2001).

8. Achievements:

- A. Qualified NET for Lectureship, Dec.2004
- B. Qualified NET for Lectureship, June,2005
- C. Qualified SLET for Lectureship,2004
- D. Qualified GATE, 2004 with 85.48 percentile

9. Position and Employment

Sl. No.	Institution Place	Position	From (Date)	To (Date)
1.	Egra SSB College	Assistant Professor	11/09/2006	10/09/2019
2.	Egra SSB College	Associate Professor	11/09/2019	Till Date
3.	Ramananda College Bishnupur	Principal	21/11/2025	Till Date

10. Administrative Position:

Sl. No.	Activity	Position	From (Date)	To (Date)
1.	Governing Body Ramananda College	Principal & Secretary	21/11/2025	Till date
2.	Governing Body Egra SSB College	Member	29/09/2021	04/05/2026
3.	Faculty Council of UG & PG Studies, Bankura University	Member	08/07/2026	Till date
4.	Coastal Environmental Studies Research Centre	Coordinator	01/03/2021	31/01/2025
5.	Post Graduate Board of Studies (Zoology)	1. External Member at Gorbeta College 2. Internal Member at Egra SSB College	11/12/2023 02/06/2017	Till date Till date
6.	Under Graduate Board of Studies (Zoology)	1. External Member of Midnapore College 2. External Member of Debra Thana SKS Mahavidyalaya	3 rd January, 2019 10 th May, 2025	Till date Till Date
7.	Biodiversity	Secretary	02/01/2015	Till date

	Management Committee, Egra Municipality			
8.	PG Zoology	Coordinator	02/06/2017	31/08/2020
9.	Under Graduate Department of Zoology at Egra SSB College	Head of the Department	More than 15 Years	
10.	NSOU, Egra Study Centre	Coordinator	01/04/2020	31/03/2022
11.	NAAC, Criteria III at Egra SSB College	Coordinator	02/04/2018	31/01/2025
12.	International Coastal Clean-up Program	Coordinator for Digha beach	2019	Till date

11. Research Activities:

i. Pre Doctoral Research:

- More than **Six Years** during 2010 -July, 2016 for pursuing Ph.D in Zoology at Department of Zoology of Vidyasagar University under the joint supervision of Prof. Susanta Kumar Chakraborty and Dr. Sachchidananda Bhattacharya.
- Title of **Thesis**: Ecobiology of benthic nemerteans from the intertidal mudflats of Subarnarekha estuary, Talsari (Odisha), India
- Successfully completed coursework (pre-requisite for enrolment for PhD under Vidyasagar University).
- During this tenure I was well trained and acquainted with vast arrays of modern, cutting-edge techniques in integrated taxonomy. Parallely, I was trained to design and plan research layout in most logistic and stream-lined manner keeping in mind the holistic nature of the experimental designs that should be applicable explore benthic micro and macrobenthos in a more scientific way.
- Successfully completed the project entitled ‘Biochemical and enzymological characteristics of Salt stress induced Gastropods’ during MPhil in Environmental Science, University of Kalyani in 2005.

ii. Post Doctoral Research:

- Completed the post-doctoral research as SERB ‘Teachers Associate ship in Research Excellence’ (TARE) from 14th April, 2018-13th April, 2022 under the mentorship of Prof. Punyasloke Bhadury, IISER Kolkata. The title of the post-doctoral research is ‘Morphotaxonomy and DNA barcoding-based identification of novel species of Nemerteans from coastal Bay of Bengal’.
- Continuing research after completion of Ph.D. in collaboration with ‘Simultala Conservationists’ in the field of Herpetology evidenced by publications in peer-reviewed International Journals.

● **PhD Thesis Supervised:**

1. Jointly supervised with Prof. Amiya Kumar Panda, Department of Chemistry, Vidyasagar University.

Name: Dr. Pritiranjana Maiti (Awarded, 2022)

Title: Physico-chemical investigation on the soils of vannamei shrimp farming areas of Contai, Purba Medinipur, West Bengal, with reference to crop productivity and impact on food security.

2. Jointly supervised with Dr. Biplab Mandal, Department of Zoology, Vidyasagar University.

Name: Mr. Soumik Dhara, CSIR SRF (Awarded, 2025)

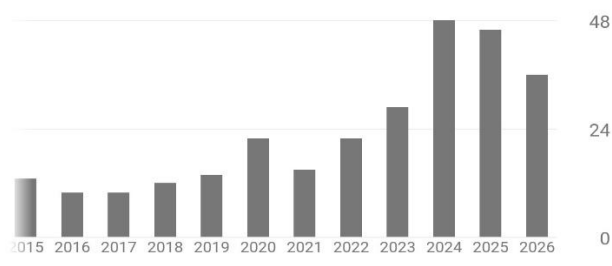
Title: Morphotaxonomic Investigation of Nemertea from North East Coast of Bay of Bengal.

iii. Area of research interest:

Integrated taxonomy and biodiversity assessment of marine invertebrates (with emphasis on nemerteans and nematodes) in the coastal Bay of Bengal; molecular and morphological approaches for species delimitation and cryptic diversity; environmental monitoring of emerging pollutants, particularly microplastics and heavy metals, and their impacts on benthic communities and ecosystem health; application of integrative methods to inform coastal conservation and management.

iv. Citation Indices:

Cited by	All	Since 2021
Citations	313	201
H-index	08	06
i10-index	06	04



12. Award/Recognition:

- A. Perennial Assistance Award 2020, Unnat Bharat Abhiyan, Govt. of India.
- B. National Environmental Science Academy Distinguished Award, 2021.
- C. National Environmental Science Academy Fellowship Award, 2023
- D. Outstanding Achievement Award, The SAID Society, 2023
- E. Best Academician Award (Zoology) 2026, The Scientific Laurels.

13. Members of Professional bodies:

- A. Life member of the National Environmental Science Academy (L/M No: 2303)
- B. Secretary of Biodiversity Management Committee, Egra Municipality, Under West Bengal

Biodiversity Board.

C. Life Member of the Ocean Society of India, CMLRE, Kochi (L/M No: 682)

D. Life Member of the Zoological Society of India, Bodhgaya, India (LM/RC/05),2023

E. Life Member of the SAID Society, Ranchi, 2023

14. Details of Research Experience:

A. Publication of Journal Articles:

- [1] Sourav Bar, Bristi Kamila, Prabhad Pratim Pal, Ajoy Kumar Bhaumik and Sudipta Kumar Ghorai 2026 ‘Multi-metal competitive adsorption on plastic polymers: Evidence from single and binary metal exposure experiments’ **Chemosphere**, 405 (2026) 144952
- [2] Sourav Bar, Ritam Sahu, Santosh Kumar Bera, Ajoy Kumar Bhaumik and Sudipta Kumar Ghorai 2026 ‘Microplastiglomerates as Emerging Pollutant Sinks: Characterization and Heavy Metal Retention Studies’ **Science of the Total Environment**, 1017 (2026),181491.
- [3] Avijit Kar, Sourav Singh, Niladri Mondal, Bidhan Chandra Patra, Jayanta Kumar Saha, Dipak Bisai, Biplab Mandal, Sudipta Kumar Ghorai, Ritam Sahu and Deep Sankar Chini 2026 ‘Integrating Satellite Derived Environmental Variables with In-Situ Data to Identify Potential Fishing Zones in the Northern Bay of Bengal Along the West Bengal Coast, India’ *Thalassas: An International Journal of Marine Sciences* (2026) 42:177
- [4] Sujit Das, Victor Phani, Sudipta K. Ghorai 2026 ‘Occurrence of *Aphelenchoides bicaudatus* in a Mangrove Ecosystem on the East Coast of India, with the Description of the Extremely Rare Male, *Acta Zool. Bulg.* Published online 17 July 2026 DOI: <https://doi.org/10.71424/azb78.3.003134>
- [5] Jhumpa Majhi, Soumik Dhara & Sudipta Kumar Ghorai (13 Apr 2026): A new species, *Tubulanus kajiharai* sp. nov. (Nemertea: Palaeonemertea) from Subarnarekha Estuary, India, **Marine Biology Research**, DOI: 10.1080/17451000.2026.2639417
- [6] Asim Sahoo, Shayani Das, Sumit Giri & Sudipta Ghorai (April 2026) AMLA RENDERED PROTECTION AGAINST CADMIUM INDUCED TESTICULAR DAMAGE IN SWISS ALBINO MICE, *Mus musculus* **JETIR**, Volume 13, Issue 4
- [7] Pal, P. P., Bar, S., Bera, S. K., Sahoo, D., & Ghorai, S. K. (2025). A Multi-Technique Investigation to Explore the Structural Integrity and Chemical Complexity of the

- Brachiopod *Lingula anatina* (Lamarck, 1801) Shells. **Journal of Structural Biology**, 217(04) 108248.
- [8] Sourav Bar and Sudipta Kumar Ghorai 2025 'Ecological footprints of microplastics in coastal and estuarine environments of India: Sediment-water interface analysis' **Science of the Total Environment**, 997 (2025) 180151
- [9] Sourav Bar, Sujit Das, Satabdi Bera, Santosh Kumar Bera, Ritam Sahu and Sudipta Kumar Ghorai 2025 'Assessing microplastic accumulation in the hepatopancreas of marine and freshwater crabs from the North East part of Bay of Bengal' **Environmental Research Communications** DOI 10.1088/2515-7620/adf499
- [10] Sourav Bar, Jhumpa Majhi, Soumik Dhara, Sudipta Kumar Ghorai 2025 'MICROPLASTIC CONTAMINATION IN THE AIR-BREATHING SEA SLUG PERONINA TENERA (STOLICZKA, 1869): A PRELIMINARY REPORT' **Poll Res.** 44(3-4): 256-265 (2025) ISSN 0257-8050
- [11] Soumen K Manik, Satyajit Halder, Ankita Bhattacharya, Utsab Debnath, Sk Asraf Ali, Shraman Jana, Manik Shit, Pallab K Halder, Suniti Pradhan, Dipak K Hazra, Kankan K Maity, Sudipta Kumar Ghorai, Shubhankar Samanta, Anup K Misra, Kuladip Jana, Nirmal K Hazra 2025 'Design, synthesis, and in vitro and in vivo biological evaluation of 2-amino-naphtho [2, 3-b] thiophene-4, 9-dione derivatives as potent anticancer agents' **European Journal of Medicinal Chemistry**, 117728
- [12] Chini DS, Mondal N, Singh S, Ghosh P, Patra P, Mandal B, Ghorai SK, Bisai D, Patra BC 2025 'Multivariate ecological assessment of ten indigenous IUCN threatened and near threatened freshwater fishes from South West regions of West Bengal, India. **Journal of Applied Biology & Biotechnology** 2025; 0: 1-9
- [13] Dhara S, Majhi J, Mandal B, Bhadury P, Bhattacharya S and Ghorai SK 2025 'A New Species of Prosadenoporus (Nemertea: Eumonostilifera) from the North-East Coast of the Bay of Bengal, India' **Zoological Science**, 42(2):1-8
- [14] Dhara S, Majhi J, Mandal B, Bhadury P, Bhattacharya S and Ghorai SK 2025 'Polydendrorhynchus amaleshii sp. nov., a New Species with Branched Proboscis (Nemertea: Heteronemertea) from the North-East Coastal Bay of Bengal' **Zoological Science**, 42(2) : 1-9
- [15] Patra A, Das Mahapatra A, Malhotra A, Santra V, Ghorai SK and Annaduari D 2024

‘Conflict between sea snakes and humans on the coast of West Bengal and Odisha, India: attitudes and incidents’ Transactions of The Royal Society of Tropical Medicine and Hygiene. **Trans R Soc Trop Med Hyg** 2024; 0: 1-8.

- [16] Giri A, Bera SK, Das S, Mandal B, and Ghorai SK 2024 New distribution record: *Pseudolella mangrovi* Gagarin and Thanh, 2016 (free-living marine nematode) from Talsari Mangrove Mudflats, North-East Coast of India’ **Rec.zool. Surv. India** 124(2) 123-130, 0375-1511.
- [17] Bar S, Dara S, Majhi J, Bisai D, Alam E, Islam Md K, Chatterjee U & Ghorai SK 2024 ‘Primary risk assessment of microplastic pollution in splinless cuttle fish (*Sepiella inermis*) from the North East Bay of Bengal: A tissue-based analysis’. **Heliyon**, 2405-8440 10 (2024): 1-10. e37719. <https://doi.org/10.1016/j.heliyon.2024.e37719>.
- [18] Patra A, Das Mahapatra A, Dsouza P, Annadurai D & **Ghorai SK** 2024 ‘Barnacle infestation of two sea snakes *Hydrophis schistosus* and *Hydrophis curtus* in the Bay of Bengal’. **The Herpetological Bulletin** 169, 2024: 39–40. <https://doi.org/10.33256/hb169.3940>.
- [19] Dhara S, Majhi J, Mandal B, and Ghorai SK 2024 ‘The effect of physicochemical parameters on Nemertean distribution in Subarnarekha Estuary, Bay of Bengal, India: A case study’. **Eco. Env. & Cons.** 30 (Nov. Suppl. Issue) : 2024; S12-S16, 0971-765X
- [20] Ghorai Sudipta Kumar, Bar Sourav, Singh Sourav, Das Ajay Kumar, Justin Jones, Ghosh Debojyoty 2024 ‘Forest Wildlife Dependencies and Conflicts in the Indian Sundarbans’ SSRN: <https://ssrn.com/abstract=4500123> or <http://dx.doi.org/10.2139/ssrn.4500123>
- [21] Mahapatra AD, Santra V, Jana S and Ghorai SK ‘Cobras in peril: Reporting the death of two monocled cobra (*Naja kaouthia*) (Squamata: Elapidae) due to consumption of anthropogenic plastic debris’ **Journal of Asia-Pacific Biodiversity**, <https://doi.org/10.1016/j.japb.2023.01.008>.
- [22] Das Mahapatra A, Patra A and Ghorai SK ‘ First report of melanism in Indian Flap shell turtle *Lissemys punctata* (Bonnaterre, 1789) from a turtle trading market of West Bengal, India’ **Journal of Threatened Taxa**, 14(10): 22032- 22035 (2022).
- [23] Sarkar B , Biswas P , Acharya CK , Ghorai SK , Nahar N , Jana SK , Ghosh S , Sarkar D , Behera B , Madhu NR ‘Knowledge of Traditional Indian Medicinal Plants for the Management of COPD’ **Chettinad Health City Medical Journal**, 10(04): 184-189

(2021).

- [24] Das Mahapatra A., Santra B. & Ghorai SK '*Lycodon jara* (Twin-spotted Wolf Snake) Death feigning' **Herpetological Review**, 52(03): 671-672. October 2021.
- [25] Sahoo D., Mandal B. & Ghorai SK 'Effects of Tobacco smoking on immune response: A Review' **VEETHIKA-An International Interdisciplinary Research Journal**, 8(1): 15-22. Jan-Mar 2022.
- [26] Sahoo D., Mandal B. & Ghorai SK 'Aphid seasonality and host plant relationship: A review' **VEETHIKA-An International Interdisciplinary Research Journal**, 8(1): 1-6. Jan-Mar 2022.
- [27] Sarkar B , Biswas P , Acharya CK, Nahar N , Jana SK , Ghosh S , Dasgupta D , Ghorai SK , Madhu NR 2022 'Obesity Epidemiology: A serious public health concern in India' **Chettinad Health City Medical Journal**, 11(01): 21-28
- [28] Sarkar B, **Ghorai SK**, Jana SK, Dasgupta D, Acharya CK, Nahar N, Ghosh S and Madhu NR ' Overweight and obesity in West Bengal : A serious public health issue' **Veethika-An international and interdisciplinary Research Journal**, Vol-07, Issue -04, pp-09-14, Nov-2021.
- [29] Dhara S & Ghorai SK 2020 ow we are connected to the entire world-In the view of behavioural aspects. **International Journal of Science and Research**, 09 (04): 01.
- [30] Khatua S, Dhara S, Sahu R, and **Ghorai SK** 'Burrowing adaptations and anthropogenic threats of a dune cricket *Schizodactylus monstrosus*(Drury): A case study from Champa river bank, West Bengal, India, **Int. J. Exp. Res. Rev.**, Vol. 23: 43-51(2020)
- [31] Maity P., Panda AK. And **Ghorai SK** 'Mapping the wider impact of brackish water shrimp culture on the local environment and economy: A brief review' **International Journal of fisheries and Aquatic studies**, 2021;9(2): 185-188.
DOI: <https://doi.org/10.22271/fish.2021.v9.i2c.2449>
- [32] Maity P., Panda AK. And **Ghorai SK** 'Study of salinity infiltration in soil dueto vannamei shrimp farming in the adjoining areas of Contai, Purba Medinipur, West Bengal, India and its immediate economic effect' **International Journal of fisheries and Aquatic studies**, 2021;9(1): 365-374.
- [33] Mahapatra, A.D., Pal, G., **Ghorai, S.K.** and Bera, S.K 'Lygosoma albopunctata(White-spotted Supple Skink). Predation' **Herpetological Review**. 51(2): 334, 2020.
- [34] Das Mahapatra A., **Ghorai SK**, Santra B.& Patra A 'Occurrence, conservation status and threats to *Morenia petersi* (Geoemydidae), in Purba Medinipur, West Bengal, India' **Herpetological Bulletin**, 2019.
- [35] Das Mahapatra A. & **Ghorai SK** 'A new locality record of Orissa Cricket Frog,

- Fejervarya orissaensis (Dutta, 1997) from Purba Medinipur District, West Bengal State, India, **Int. J. Exp. Res. Rev.**, Vol. 19: 18-21 (2019) 2319-314X, 2319-3158.
- [36] Das Mahapatra A. & **Ghorai SK** 'First report of Leech parasitism on Asian common toad *Duttaphrynus melanostictus* (Schneider, 1799) West Bengal, **Trends in Parasitology Research**.1(2019) ISSN: 2455-4855.
- [37] Das Mahapatra A., Santra B. & **Ghorai SK** 'New record of *Duttaphrynus scaber* (Schneider,1799) Schneider's Toad (Family: Bufonidae) from West Bengal, India" **Biological Forum – An International Journal**.11(2): 56-60(2019)2249-3239.
- [38] Das Mahapatra A., Santra B. & **Ghorai SK** 'Albinism in *Xenochrophis piscator* (Checkered Keelback)' **Herpetological Review** 51(1), 2020.
- [39] Samaresh s Tapas d, Sudipta G, Susanta K C. Biocycling of Fractional Fatty Acid Components of Lipids in Mangrove-Benthic Systems, in Midnapore (East)Coast, India. **Examines Mar Biol Oceanogr**. 1(2). EIMBO. 000510. 2018.
- [40] Ghorai, S.K., Chakraborty, S.K. and Samanta, S. 2015. Biotransformation of fatty acids by *Cerebratulus sp*– A study from the Eastern coast of India. **Elixir Appl. Zoology**. 87 (2015) 35561-35564, ISSN:2229-712X.
- [41] Ghorai, S.K., Chakraborty, S.K. and Bhattacharya, S. 2014. Laboratory observation on the feeding behavior of two intertidal benthic Nemertine of Subarnarekha estuaries, Odisha, India. **IJCRAR**. ISSN: 2347-3215. Vol-2. No- 12. Pp-155-161.
- [42] Ghorai, S., Bera,S.K., Jana,D. and Mishra, S. 2014. Status of the largest dry fishmarket of East India: A study on Egra Regulated Dry Fish Market, Egra, Purba Medinipur, West Bengal, **IJCRAR**, ISSN: 2347-3215 volume.2 no.- 5(May2014) pp.54- 65.
- [43] D Jana, SK Ghorai, S Jana, PP Dey 2014 Determination of antimicrobial activity of rice based fermented beverage-Haria/Handia **IJCRAR**, ISSN: 2347-3215 volume.2 no.- 5(May2014)pp.85- 91.
- [44] Ghorai,S., Jana, D. and Jana, S. 2014. Determination of antimicrobial activityof novel synthesized N- Heterocyclic Carbene Silver complex. **IJCRAR**. ISSN: 2347- 3215 volume.2no.- 4(April2014) pp.106-113.
- [45] Samanta,T., Roy Mahapatra, G., Porto, W.F., Seth, S., Ghorai, S., Saha, S., Sengupta, J., Franco, O.L., Dinamo. and Mandal, S.M. 2013. N, N"- Olefin functionalized Bis- Imidazolium Gold(I) salt Is an Efficient Candidate to Control Keratitis- Associated Eye Infection. **PLOS ONE**, e58346, March 2013, Volume 8, Issue3.

B. Articles/ Chapters Published in Edited Books:

1. Sourav Bar, Soumik Dhara,Satyajit Halder, Kuladip Jana and Sudipta Kumar Ghorai (2024).Apoptosis: Mechanisms and Clinical Implications. @ **Springer Nature**, Apoptosis and Human Health: Understanding Mechanistic and Therapeutic Potential. 978-981-97-

7904-8,533841_1.

2. Sourav Bar, Soumik Dhara, Kunal Pal, Satyajit Halder, Kuladip Jana and Sudipta Kumar Ghorai (2024). Role of Apoptosis in Diabetes: Therapeutic Targets and Strategies. @ **Springer Nature**, Apoptosis and Human Health: Understanding Mechanistic and Therapeutic Potential. 978-981-97-7904-8,533841_1.
3. Sagnik Kumar Bera, Sourav Bar, Nithar Ranjan Madhu, and Sudipta Kumar Ghorai 2024 'From trash to treasure: Innovations in waste management for a sustainable India' © IAPH, Life as Basic Science: An Overview and Prospects for the Future Volume: 3. ISBN: 978-81-978955-7-9; pp. 131-163
4. Deb Kumar Sahu, Santosh Kumar Bera, Prabod Pratim Pal, Dipak Kumar Tamili, Nithar Ranjan Madhu, and Sudipta Kumar Ghorai 2024 'Phycotoxins produced by Harmful Algal Blooms (HABs) and their role in human poisoning: A review' © IAPH, Life as Basic Science: An Overview and Prospects for the Future Volume: 3. ISBN: 978-81-978955-7-9; pp. 01-19
5. Sujit Das, Sourav Bar, Nithar Ranjan Madhu, and Sudipta Kumar Ghorai 2024 'Evaluating the consequences of parasitic nematodes on agricultural productivity' © **IAPH**, 2024, A Basic Overview of Environment and Sustainable Development [Volume: 3]. ISBN: 978-81-969828-3-6, pp: 93-127
6. Deb Kumar Sahu, Santosh Kumar Bera, Prabod Pratim Pal, Dipak Kumar Tamili, Bhanumati Sarkar, Nithar Ranjan Madhu and Sudipta Kumar Ghorai 2024 'Plankton act as a key indicator of health and stability of ecosystems: A review. © **IAPH**, 2024, A Basic Overview of Environment and Sustainable Development [Volume: 3]. ISBN: 978-81-969828-3-6, pp: 257-272.
7. Jhumpa Majhi, Soumik Dhara, Nithar Ranjan Madhu, Roger IC Hansell, and Sudipta Kumar Ghorai 2024 'Symbiotic relationship of Nemertea: A comprehensive review' © **IAPH**, 2024, A Basic Overview of Environment and Sustainable Development [Volume: 3]. ISBN: 978-81-969828-3-6, pp: 165-174
8. Sourav Bar, Sourav Singh, Soumik Dhara, Ajay Kumar Das, Jones Justin, Debojyoty Ghosh, Nithar Ranjan Madhu & Sudipta Kumar Ghorai (2024). The Dual Nature of Wildlife of Indian Sundarbans: Cooperation and Conflict. © International Academic Publishing House (**IAPH**), Life as Basic Science: An Overview and Prospects for the Future Volume: 2, pp. 01-34. ISBN: 978-81-969828-6-7 doi: <https://doi.org/10.52756/lbsopf.2024.e02.001>
9. Sourav Bar, Soumik Dhara, Mampi Nayak, Jhumpa Majhi, Nithar Ranjan Madhu, Sudipta Kumar Ghorai, Biplab Kumar Behera (2024). Assessing the Uncertainties of Inland Shrimp Farming in Purba Medinipur: A Comprehensive Study. © International Academic

Publishing House (**IAPH**), Life as Basic Science: An Overview and Prospects for the Future Volume: 2, pp. 219-234. ISBN: 978-81-969828-6-7 doi: <https://doi.org/10.52756/lbsopf.2024.e02.018>

10. Apurba Bhunia, Sourav Bar, Sujit Das, Sudipta Kumar Ghorai, Bhanumati Sarkar, Biplab Kumar Behera (2024). Determination of Nutritional Quality Between Indigenous and Imported Cashew Nuts. © International Academic Publishing House (**IAPH**), Life as Basic Science: An Overview and Prospects for the Future Volume: 2, pp. 35-43. ISBN: 978-81-969828-6-7 doi: <https://doi.org/10.52756/lbsopf.2024.e02.002>
11. Suvabrata Khatua, Nithar Ranjan Madhu, Sudipta Kumar Ghorai, Susmita Moitra, Alope Saha, Sudipa Mukherjee Sanyal (2023). Distribution, Burrowing Adaptations and Threats of Dune Crickets with Special Reference to *Schizodactylus monstrosus* (Dury). © International Academic Publishing House (**IAPH**), A Basic Overview of Environment and Sustainable Development [Volume 2], pp. 213-230. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.014>
12. Sourav Bar, Soumik Dhara, Nithar Ranjan Madhu, Biplab Mandal, Bhanumati sarkar, Sudipta Kumar Ghorai (2023). Root Causes of Biodiversity Loss with special Reference to India © International Academic Publishing House (**IAPH**), A Basic Overview of Environment and Sustainable Development, Vol 2, pp. 1-34. ISBN: 978-81-962683-8-1. DOI: <https://doi.org/10.52756/boesd.2023.e02.014>
13. Madhu NR, Sarkar B, Salma P, Jha Nk, Ghorai SK, Jana SK, Govindasamy K, Massanyi P, Lukac N, Kumar D, Kalita JC, Kesari KK and Roychoudhury S 2021 'Effect of Environmental Stressors, Xenobiotics and Oxidative Stress on Male Reproductive and Sexual Health' Advances in Experimental Medicine and Biology, Vol I: 33-58, Published by **Springer**.
14. Dhara S, Mandal B and **Ghorai SK 2022** 'Let's cut the ribbon of ribbon worm conservation with special reference to India: a review' A basic overview of environment and sustainable development. © International Academic Publishing House (**IAPH**) Vol I (5): 01-11.
15. Bishal Dhar, Apurba Ghosh, Sharbadeb Kundu, Amalesh Choudhry, **Sudipta Ghorai**, Subrata Trivedi, Joyobrata Nath & Sankar Ghosh, 2016. DNA Barcoding of Primitive species-Nemartine from sundarbans Marine Bio-resource. Published by **Springerlink**.
16. Bishal Dhar, Apurba Ghosh, Sharbadeb Kundu, Sorokhaiban Malavika, Ningthoujam Nellam Devi, Amalesh Choudhry, **Sudipta Ghorai**, Subrata Trivedi, Sankar Ghosh, 2016.

DNA Barcoding: Molecular positioning of Living Fossils (Horseshoe crab) published by **Springerlink**.

C. Editor of Published Books

I. Ghorai SK & Pradhan D 2024 'From Discovery to Conservation: Scientific Approaches to Coastal Bioresource Management' @ International Academic Publishing House, pp: 1-101

II. Ghorai SK & Pradhan D 2023 'Bioactive Natural Compounds and their Effects on Animal Function, Health and Welfare' @ International Academic Publishing House, pp: 1-96

III. Ghorai SK & Khatun M 2020 'Coastal Biodiversity and Its Conservation' @ International Academic Publishing House, pp: 1-58

D. Research Projects Completed/ Ongoing:

Sl.No	Title	Cost	Role	Agency	Status
1.	Morphotaxonomy and DNA barcoding based identification of novel species of Nemerteans from coastal Bay of Bengal	18,30,000	PI	DST SERB	Completed
2.	Community based survey and analysis of sea snake bite	4,48,000	PI	HOF / GSI	Completed
3.	DST FIST Program	70,00,000	PC	DST	Ongoing
4.	DBT STAR college program for Strengthening Under Graduate studies	82,00,000	PC	DBT	Ongoing
5.	WB DST FIST program	9,00,000	PI	WBDST	Completed
6.	Eco Biology of Benthic Nemerteans in the Intertidal mud flats of Talsari, Odisha, India	1,96,000	PI	UGC	Completed
7.	Integrated fish farming in freshwater pond with special reference to <i>Macrobrachium rosenbergii</i> in the coastal belt of Purba Medinipur.	1,04,052	Co-PI	UGC	Completed

E. Paper Presented in Seminars:

Sl. No	Title of the paper presented	Title of Seminar	Organized by	Whether international/ national/ level
1.	Morphological and molecular character-based description of a new <i>Aphelenchoides</i> species...in the Subarnarekha estuary, India.	8 th Regional Science and Technology Congress, 2025-26	WBDSTBT, Govt of WB	State Level
2.	Tiny plastic -rock agglomerates as novel contaminant...marine environment	8 th Regional Science and Technology Congress, 2025-26	WBDSTBT, Govt of WB	State Level
3.	A new species <i>Tubulanus kajiharai</i> sp. Nov from Subarnarekha estuary, india	8 th Regional Science and Technology Congress, 2025-26	WBDSTBT, Govt of WB	State Level
4.	Intertidal benthic foraminiferal test as a proxy of biogeochemical signature Subarnarekha estuary, East coast of India	8 th Regional Science and Technology Congress, 2025-26	WBDSTBT, Govt of WB	State Level
5.	Comparative Analysis of Microplastic Contamination and Pollution Load Index in the Hepatopancreas of Edible Marine and Freshwater Crabs	7th Regional Science and Technology Congress, 2024-25	Department of Science & Technology and Biotechnology Government of West Bengal	State Level
6.	Modern Benthic Foraminiferal assemblages from a newly colonized mangrove of Subarnarekha estuary, Odisha, India	7th Regional Science and Technology Congress, 2024-25	Department of Science & Technology and Biotechnology Government of West Bengal	State Level
7.	Toxin of ribbon worm offers new possibilities in cancer treatment	7th Regional Science and Technology Congress, 2024-25	Department of Science & Technology and Biotechnology Government of West Bengal	State Level
8.	Empowering Indian Farmers Role of Machine Learning for Minimizing the Government	7th Regional Science and Technology Congress, 2024-	Department of Science & Technology and Biotechnology	State Level

	Subsidies in Major Crop Yield	25	Government of West Bengal	
9.	Nutrient-specific responses of marine micro-algae communities in adjacent to the Digha-Talsari coastline along the Bay of Bengal, India	7th Regional Science and Technology Congress, 2024-25	Department of Science & Technology and Biotechnology Government of West Bengal	State Level
10.	First Report of Two Aphelenchoides species and Record of An Extremely Rare Male of Aphelenchoides bicaudatus from the Necrotic Root of Newly Developed Mangrove (Avicennia marina) in Talsari, Odisha, India	7th Regional Science and Technology Congress, 2024-25	Department of Science & Technology and Biotechnology Government of West Bengal	State Level
11.	A new species of Zygonemertes sp from Subarnarekha estuary, Odisha, India 18-19 May, 2023	Bioactive naturaland wildlife	Dept. Of Zoology & Chemistry, ESSBC	National
12.	Bioactive compounds from Lingula anatina- A potential source of therapeutic agents 18-19 May, 2023	Bioactive naturaland wildlife	Dept. Of Zoology & Chemistry, ESSBC	National
13.	Bioactive compounds from cephalopods 18-19 May, 2023	Bioactive naturaland wildlife	Dept. Of Zoology & Chemistry, ESSBC	National
14.	Control strategy of parasitic nematodes using secondary metabolites of mangroves	Bioactive naturaland wildlife	Dept. Of Zoology & Chemistry, ESSBC	National
15.	Nemertean toxin and their pharmaceutical applications 18-19 May, 2023	Bioactive naturaland wildlife	Dept. Of Zoology & Chemistry, ESSBC	National
16.	Bioactive potential of Bellamya bengalensis 18-19 May, 2023	Bioactive naturaland wildlife	Dept. Of Zoology & Chemistry, ESSBC	National

17.	Morphotaxonomy and molecular identification of an inter-tidal benthic Nemertean from costal Sundarbans with an emphasis on its fishery potential 22 nd Dec,2019	ICSEH	Dr. Taraknath Poddar Memorial Foundation	International
18.	Burrowing adaptation and behavior of <i>Schizodactylus monstrosus</i> in Champa river sand bed. 26 th Jan 2020	ICWOA	IISERK	International
19.	Aquaculture potential of <i>Lingula sp.</i> , a Pre-cambrian brachiopoda: novel bioresource from Bay of Bengal Coast 27 th Jan 2020	ICWOA	IISERK	International
20.	<i>Rhynchonema ghormanii</i> sp nov: a new species of free-living marine nematode from Bay of Bengal Coast 28 th Jan 2020	ICWOA	IISERK	International
21.	Morphotaxonomy and molecular identification of Nemerteans from Bay of Bengal with an emphasis on its fishery potential 29 th Jan 2020	ICWOA	IISERK	International
22.	Factors influencing a least concern species to be extinct: a case study on Indian flapshell turtle (<i>Lissemys punctata</i>) 11 th Dec,2019	4 th State science Conference	WBDST	State Level
23.	Salinity Infiltration on the soils of Vannamei Shrimp Farming Areas of Contai, Purba Medinipur, West Bengal with Reference to Crop Productivity and Impact on Food Security 11 th Dec,2019	4 th State science Conference	WBDST	State Level
24.	Turtles of Purba Medinipur district are in trouble 5 th Jan,2020	Biodiversity and its Sustainable development	Bajkul College	State Level

25.	Threats and challenges of fish biodiversity of West Bengal 8 th April,2019	Coastal zone of ecosystem is in peril: Needs immediate conservation effort	Dept. of Zoology	National Level
26.	Salinity infiltration due to Vannamei Shrimp farming at Contai, Purba Medinipur, West Bengal with reference to loss in Biodiversity as well as crisis in sustainable development. 5 th January,2020	Biodiversity and its Sustainable development	Bajkul College	State Level
27.	Marine biotechnology: Status and prospects in discovering novel functional foods 12 th April,2019	Anthropogenic impact on riverine ecosystem in costal belt of West Bengal	Department of Zoology, ESSBC	National Level
28.	Molecular excellence of <i>Cerebratulus bengalensis</i> from West Bengal coast with an emphasis on its fishery potential 20 th March,2019	Climate change and its effect on environment	Department of Geography	National Level
29.	Ecomolecular excellence of Nemertean from Talsari, Odisha 5 th -7 th Feb,2019	Environmental History and sustainability	Bajkul College	International Level
30.	Status of the largest dry fish market of East India: A study on Egra Regulated Dry Fish Market 14 th -17 th November, 2014	Geomorphology and Geospatial Technology in Environment management and social development	Dept. of Geography and Env. management & Dept. of remote sensing and GIS, VU	International Level
31.	Psychology and brain mind interaction 15th January, 2015	Contribution of Humanity to Develop society and culture workshop: developing creative potential through theatre and performance	Department of Bengali, Egra SSB College	International Level
32.	Cardiac tumors: Pathophysiology, Diagnosis and Management of a rare but fatal disease May,2015	Food habit and cancer.	Dept. of Zoology, Egra SSB College	National Level

33.	Identification of Nemertines from the coastal tracts of Bengal and its potential for alternative food source in poultry and aquaculture system 5th and 6th February, 2016	Research Innovations in biotechnology- an Indian perspective	The Zoological Society , Kolkata and Department of Zoology, University of Calcutta	National Level Young Scientist meet
34.	Feeding pattern of Nemertines- Probocis worms or ribbon worms – A case study from the Talsari, Odisha, India 19th January, 2016	Role of biodiversity and natural resources in sustainable development	Dept. of Zoology, Bajkul Milani Mahavidyalaya	National Level
35.	On feeding behavior of Nemertines- A case study from Subarnarekha estuary, Odisha, India, 23rd & 24th Nov, 2015	Perspectives in animal sciences: Research and Application	Dept. Of Zoology, Midnapore College	National Level
36.	Presence of antimicrobial substance on tribal health drink Handia, 14th & 15th March, 2012	Modern trends in research on medicinal plants and phytochemicals	Dept. of Chemistry, Egra SSB College	National Level
37.	Feeding behavior of Lineid Nemertine of Talsari mudflat, 8th March, 2011	Recent trends in Zoology	PG Dept. of Zoology, Jhargram College	International Level

F. Refresher course/ Training program/Summer research fellowship program attended:

- [1] International capacity building workshop on Ocean acidification 28th to 31st January, 2020, organized by IISERK
- [2] International Workshop on 'Methods in Molecular Ecology' 22nd September to 26th September, 2019 at Department of Zoology, Egra SSB College.
- [3] National brainstorming workshop on conservation of horseshoe crab and their habitats, 26th April, 2019 at IISER Kolkata.
- [4] National Workshop on DNA Barcoding: A newer trend in molecular taxonomy, 9th April to 11th April, 2019 at Department of Zoology, Egra SSB College.
- [5] International Workshop on Land- Ocean- Atmosphere Interaction, Greenhouse Gases and Coastal Processes (LOA 2018), From 24th July to 5th August, 2018 at IISER Kolkata.
- [6] 21 days winter school on Geospatial Technologies from 16th November to 06th December, 2016 sponsored by Natural Resources data management system

(NRDMS), Department of Science and technology (DST) and Ministry of Science and Technology, Govt. of India.

- [7] National Workshop on Molecular Biology and Bioinformatics tools on DNA Barcoding and Genomic diversity of biosciences, from 27th to 31st January, 2012 at Department of Biotechnology, Assam University, Silchar, Assam, India.
- [8] 21 days Refresher course on Application of Bioinformatics on Modern Biology, from 8th March to 31st March, 2010 at BIF Centre, Department of Microbiology, Viyasagar University.
- [9] 21 days Orientation course from 16th May to 12th June 2009 at Academic Staff College, The University of Burdwan, Burdwan.

G. Seminar/Workshop/Symposium organization:

- a) Joint Organizing secretary of Two-day national seminar on 'From discovery to conservation: Scientific approaches to coastal bioresource management' 14th May & 15th May, 2024 at Department of Zoology, Egra SSB College.
- b) Joint Organizing secretary of Two-day national seminar on 'Bioactive natural compounds and their effects on animal function, health and welfare' 18th May & 19th May, 2023 at Department of Zoology & Chemistry, Egra SSB College.
- c) Joint Organizing secretary of Five-day international webinar on 'Cross roads in interdisciplinary sciences in higher education' 18th Aug & 22nd Aug, 2020 at Department of Zoology & Chemistry, Egra SSB College.
- d) Co-Organizing secretary of State Level Seminar on 'Coastal Biodiversity and its management' 29th February, 2020 at Department of Zoology, Egra SSB College
- e) Organizing secretary of Two day nonresidential science camp on 'Monitoring of biodiversity and its conservation' 27th Feb & 28th Feb, 2020 at Department of Zoology, Egra SSB College.
- f) Co-Organizing secretary of Two day workshop on 'Genome editing CRISPR' 27th Feb & 28th Feb, 2020 at Department of Zoology, Egra SSB College
- g) Organizing secretary of International Workshop on 'Methods in Molecular Ecology' 22nd September to 26th September, 2019 at Department of Zoology, Egra SSB College.
- h) Organizing secretary of National Level Workshop on 'Methods in Molecular Ecology' 22nd September to 26th September, 2019 at Department of Zoology, Egra SSB College
- i) Co-Organizing secretary of State Level Seminar on 'Urbanization, changing daily life and prevalence of Lifestyle diseases: An Emerging issue' 18nd April, 2019 at

Department of Zoology, Egra SSB College

- j) Organizing secretary of National Level Seminar on 'Coastal zone of ecosystem is in peril: Need immediate conservation effort' at Egra SSB College, 8th April, 2019.
- k) Organizing secretary of National Level Workshop on DNA Barcoding : A newer trend in molecular taxonomy, 9th April to 11th April, 2019 at Department of Zoology, Egra SSB College
- l) Organizing secretary of National Level Workshop on Snake human conflict mitigation, taxonomy, snakebite and conservation, at Egra SSB College, 11th April, 2019
- m) Organizing secretary of National Level Seminar on Anthropogenic impact on riverine ecosystem in coastal belt of West Bengal, at Egra SSB College, 12th March, 2019.
- n) Organizing secretary of National Level Seminar on Global warming and biodiversity loss, at Egra SSB College, 14th and 15th March, 2017.
- o) Organizing secretary of National Level Seminar on Food habit and cancer at Egra SSB College, 07th and 08th March, 2015.
- p) Co-Organizing secretary of National Level Seminar on Island biodiversity at Egra SSB College, 1st June, 2014
- q) Organizing secretary of National Level Seminar on Prospect of ornamental fish culture in West Bengal, at Egra SSB College, 12th October, 2012.
- r) Organizing secretary of National Level Seminar on Coastal and marine ecology of West Bengal, at Egra SSB College, 21st December, 2011.

H. Research Guidance (M.Phil./ Ph.D.):

- Joint supervision of Ph.D. candidates with Prof. Amiya Kumar Panda, Department of Chemistry, Vidyasagar University, and Dr. Biplab Mandal, Associate Professor, Department of Zoology, Vidyasagar University: Pritiranjana Maity and Mr. Soumik Dhara (CSIR-supported).
- Joint supervision of Mr. Amalendu Giri (NET) with Dr. Biplab Mandal, Vidyasagar University.
- Principal supervisor for seven Ph.D. scholars currently registered at the Coastal Environmental Studies Research Centre, Egra SSB College: Miss Jhumpa Maji (UGC Fellow), Mr. Sujit Das (UGC Fellow), Mr. Saantosh Bera, Mr. Prabadpratim Paul, Mr. Sourav Bar (UGC Fellow), Mr. Deb Kumar Sahu, and Ms. Sriparna Jana.



Signature