



BRIEF

CONTACT

DEPARTMENT: Department of Zoology

SCHOOL OF STUDIES: School of Sciences

DATE OF JOINING: 28 February, 2006

ADDRESS:

City Campus: K-2, Bidhannagar Fire Station, Sector- V, Salt Lake, Kolkata-700 091

WEBSITE:

www.wbnsou.ac.in

EMAIL:

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DR. BIBHAS GUHA

Associate Professor of Zoology

M.SC., PH.D

TEACHING EXPERIENCE:

Netaji Subhas Open University (28/02/2006 –Till date)

RESEARCH INTEREST & EXPERIENCE:

More than 25 years' research experience (including the experiences gathered during Ph. D work) in the area of fish cytogenetics, ecotoxicology, fisheries and aquaculture.

ADMINISTRATIVE EXPERIENCE:

Head, Department of Zoology, School of Sciences, NSOU

UG & PG TEACHING ASSIGNMENTS

MORE THAN 21 YEARS OF TEACHING EXPERIENCE IN UG ZOOLOGY AND MORE THAN 16 YEARS OF TEACHING EXPERIENCES IN PG ZOOLOGY.

NO. OF CANDIDATE AWARDED FOR PH.D: ONE

NO. OF CANDIDATE REGISTERED FOR PH.D: TWO

MEMBERSHIP OF DIFFERENT COMMITTEES

1. Member, CIQA committee, NSOU
2. Member, Departmental Research Committee of Zoology, NSOU
3. Member, PG Board of Studies, NSOU
4. Member, UG Board of Studies, NSOU

MEMBERSHIP OF PROFESSIONAL BODIES: LIFE MEMBER OF ZOOLOGICAL SOCIETY, UNIVERSITY OF CALCUTTA

RESEARCH PROJECTS:

| Sl. No. | Name of the Project | Funding Agency | Period | Grant Mobilized | Outcome |
|---------|---|---|------------|-----------------|--------------------------------------|
| 1 | Assessment on the reasons responsible for student dropout from the Bachelor of Science programme at Netaji Subhas Open University | UGC-DEB | one year | Rs.1,50,000/- | Completed and final report submitted |
| 2 | Exploring innovative methodologies for zoology teaching in Distance Education | UGC-DEB | one year | Rs.3,50,000/- | Completed and final report submitted |
| 3 | Virtual Laboratory and Virtual Study- an Insight into the New Prospect in Distance Education | UGC-DEB | one year | Rs. 4,00,000/- | Completed and final report submitted |
| 4 | Wetland ecosystem stress assessment through assay of microbial nutrient cycling and fish anti-oxidant enzymes (As Co-PI) | Science & Technology and Biotechnology Department, Govt. of West Bengal | Three year | Rs. 14,00,000/- | Ongoing |
| 5 | Virtual laboratory: in search of a model based approach on a vertebrate (fish) model | UGC-DEB | One year | Rs. 1,20,000/- | Ongoing |

E-CONTENT

| Sl. No. | Details | Quadrant I/II/III/IV | Link |
|---------|--|------------------------|---|
| 1 | Stress Physiology | PGZO/IIA (Video-1,2) | https://digiv.app/nsou |
| 2 | Shrimp Culture | EZO/XIV | https://digiv.app/nsou |
| 3 | Introduction and overall idea about composite fish culture | PGZO/VIII B (Video-13) | https://digiv.app/nsou |
| 4 | Technical parameter that needs to be considered for composite fish culture | PGZO/VIII B (Video-14) | https://digiv.app/nsou |
| 5 | Harvesting, economics and disease control | PGZO/VIII B (Video-14) | https://digiv.app/nsou |
| 6 | Introduction and general idea about prawn | PGZO/VIII B (Video-1) | https://digiv.app/nsou |
| 7 | Prawn culture technical requirement-I | PGZO/VIII B (Video-2) | https://digiv.app/nsou |
| 8 | Prawn culture technical requirement-II | PGZO/VIII B (video-3) | https://digiv.app/nsou |

DETAILS OF PUBLICATIONS (BOOKS/ EDITED VOLUME / RESEARCH PAPERS/REVIEW): [Last 10 Year]

| Sl. No. | Title of the paper vol. No., Issue No., Page No, Year | Publisher/Journal | Year of publication | ISSN/ ISBN |
|---------|---|---|---------------------|-----------------|
| 1. | Heterogeneity of bacterial enzymes as nutrient enrichment signature in tropical wetlands: A sustainable environmental management tool. (5): 100395 | Environmental Challenges | 2021 | ISSN: 2667-0100 |
| 2. | A salicylaldehyde based dual chemosensor for zinc and arsenate ion detection: biological application. 519: 120258 | Inorganica Chimica Acta | 2021 | ISSN: 0020-1693 |
| 3. | Sex specific quantitative estimation of total haemocyte in mud crab, <i>Scylla serrata</i> (Forsk., 1775): an evidenced based report. 9 (4): 439-441. | Journal of Entomology and Zoology Studies | 2021 | ISSN: 2349-6800 |

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| 4. | Efficacy of derelict water bodies to be a fish culture pond: a potential survey based on influence of physicochemical parameters on the bacterial population and enzyme activity. 8(2): 47-54. | Indian Journal of Biology, | 2021 | ISSN: 2394-1391 |
| 5. | Primary concept of Arsenic toxicity: an overview. (pp. 323-341) | Spinger hydrogeology | 2021 | ISBN: 9783030623968 |
| 6. | A Statistical approach towards COVID-19 attack in the district of Nadia, West Bengal, India. 9 (10): DOI : 10.36106/ijsr | International Journal of Scientific Research, | 2020 | ISSN No. 2277 - 8179 |
| 7. | A statistical outlook on the effect of festival on COVID-19 in West Bengal, India. 9(4): 147-152 | International Journal of Scientific Research and Reviews | 2020 | ISSN: 2279-0543 |
| 8. | A General Perspective of Online Learning during Pandemic COVID-19: A Case Study in Chakdaha Block, West Bengal, India. 9 (2): 28-31 | Asian Review of Social Sciences | 2020 | ISSN: 2249-6319 |
| 9. | Assessment of the relationship of the micronuclei, anomalous nuclei and nucleo-cytoplasmic ratio of the red blood corpuscles in fish induced by ethyl methane sulphate. 16 (1): 93-101 | Journal of Environment and Sociobiology | 2019 | ISSN: 0973-0834 |
| 10. | Non surgical expulsion of renal stones (calculi) with homeopathic remedies: a dependable alternative option. 7 (2E): 9908-9918. | International Journal of Current Advanced Research | 2018 | ISSN: 2319-6505 |
| 11. | Alterations in Protein Content in three Different Vital Organs of a Freshwater Snail, <i>Pila globosa</i> Exposed to Cadmium Chloride. 5(1): 5-8 | Indian Journal of Biology | 2018 | ISSN: 2394-1391 |
| 12. | Virtual Study and Virtual Laboratory: a Boon in Distance Learning. (Total pages: 124) | Pub: Registrar, Netaji Subhas Open University | 2016 | ISBN: 978-93-82112-22-8 |
| 13. | Virtual study and virtual laboratory: a path finding approach in Zoology teaching explored at Netaji Subhas Open University, India. (pp. 85-91) | Pub: Registrar, Netaji Subhas Open University | 2016 | ISBN: 978-93-82112-22-8 |
| 14. | Extraction, partial purification and characterization of polygalacturonase from the plant <i>Jatropha tanjorensis</i> . 5 (3): 299-305 | International Journal of Green and Herbal Chemistry | 2016 | ISSN: 2278-3229 |
| 15. | A study on the threats to the Gangetic Dolphin. 3 (1): 77-80. | Indian Journal of Biology | 2016 | ISSN: 2394-1391 |
| 16. | A venture towards exploring the major causes of student dropout from the Bachelor of Science Programme at Netaji Subhas Open University. (pp: 270-273) | Tamil Nadu Open University, Chennai, India | 2015 | ISBN: 978-93-81830-89-5 |
| 17. | Marketing of Marine Products in India and Abroad in Relation to WTO. (Total pages: 72) | Pub: Lap Lambert Academic Publishing, Germany | 2015 | ISBN: 978-3-659-75659-7 |
| 18. | Application of PCR screened fry for increasing production of penaeid shrimp in growout ponds of West Bengal, India. 2(6): 113-118. | International Journal of Fisheries and Aquatic Studies | 2015 | ISSN: 2347-5129 |
| 19. | Assessment of the effect of silver nanoparticles on haematological profile and total protein content in a freshwater fish, <i>Channa punctatus</i> (Bloch). 2 (2): 23-27. | Indian Journal of Biology | 2015 | ISSN: 2394-1391 |
| 20. | Efficacy of effluent treatment system for the reduction of nutrient and organic loads in semi-intensive shrimp farming ponds. 1(1): 13-24 | Indian Journal of Biology | 2014 | ISSN: 2394-1391 |
| 21. | Influence of physicochemical parameters on the abundance of coliform bacteria in an industrial site of the Hooghly River, India. 66 (1): 20-26 | Proceedings of the Zoological Society | 2013 | ISSN: 0373-5893 |
| 22. | Assessment of optimum stocking density for sustainable production of <i>penaeus monodon</i> Fabricius in a semi-intensive farm of West Bengal, India. 5 (2): 159-168. | World Journal of Fish and Marine Sciences | 2013 | ISSN: 2078-4589 |
| 23. | Fish as a test model for genotoxicity assessment to | Simurali | 2013 | ISBN: 978-81- |

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| | monitor the aquatic pollution: a review. (pp. 350-358). | Sachinandan College of Education, Simurali, Nadia, West Bengal, India. | | 922902-6-3 |
| 24. | Identification of <i>Klebsiella pneumoniae</i> infected patients: a case study of Halisahar, West Bengal, India. (pp. 391-394). | Pub: Alpana Enterprise, Kol-50 | 2013 | ISBN: 978-81-921382-2-0 |
| 25. | Optimization of feeding efficiency for cost effective production of <i>Penaeus monodon</i> Fabricius in semi-intensive pond culture system. 3:6 | Journal of Aquaculture Research and Development | 2012 | ISSN: 2155-9546 |
| 26. | Efficacy of probiotics on growth and sustainable production of black tiger shrimp, <i>Penaeus monodon</i> Fabricius, 1798 in brackishwater ponds of West Bengal, India. 25: 303-316. | Asian Fisheries Science | 2012 | ISSN: 0116-6514 |
| 27. | pH based alteration of electrical conductivity and total protein profile of muscle of fish, <i>Heteropneustes fossilis</i> (Bloch) as an indicator of aquatic pollution. 9 (4): 17-23 | Asian journal of Water, Environment and Pollution | 2012 | ISSN: 0972-9860 |
| 28. | Toxic effect of Dursban, an organophosphate insecticide, on survival and biochemical alterations of organic constituents in teleost fish <i>Poecilia latipinna</i> (Pisces: Poeciliidae). 31 (4): 643-647 | Pollution Research | 2012 | ISSN: 0257-8050 |
| 29. | Assessment of genotoxicity induced by the effluent of supreme paper mill (India) on the fish <i>Heteropneustes fossilis</i> (Bloch). 65 (2): 86-90 | Proceedings of the Zoological Society | 2012 | ISSN: 0373-5893 |
| 30. | Role of distance education in reducing gender inequality in higher education: a case study. (pp. 57-66). | Pub: Registrar, Netaji Subhas Open University | 2012 | ISBN: 978-93-82112-01-3 |

PAPERS PRESENTED AT SEMINARS, CONFERENCES, WORKSHOPS, ETC.: [Last 10 Year]

| Sl. No. | Title of Paper/ Lecture | Organizing Institute | Conference, Seminar, workshop etc. | Role (Paper presenter/ invited talk/ chairperson) | International (Within Country)/ International (Abroad)/ National |
|---------|---|--|------------------------------------|---|--|
| 1 | Web 2.0: An innovative application in laboratory based science teaching in Distance education | YCMOU, Nashik (April 17 - 19, 2012) | Conference | Paper presenter | National |
| 2 | Effectiveness of stocking PCR-negative post-larvae for controlling white spot disease in semi-intensive farming of black tiger shrimp, <i>Penaeus monodon</i> | University of Calcutta (26-28 November, 2012) | Seminar | Paper presenter | National |
| 3 | Role of distance education in reducing gender inequality in higher education | Netaji Subhas Open University (30-31 January, 2012) | Seminar | Paper presenter | National |
| 4 | Strategies for mitigation of negative impacts of climate change on small-scale fisheries and aquaculture in India: a review | Central University of Orissa (23-24 November, 2013) | Seminar | Invited talk | National |
| 5 | An innovative approach of teaching learning process in mathematical and biological science through distance education: a case | Directorate of Distance education, University of Jammu (12-14 March, 2014) | Conference | Paper presenter | National |

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| | study | | | | |
| 6 | Vehicle density vis-a-vis pollution level: a comparative study of eight different locations in Kolkata, West Bengal, India | Netaji Subhas Open University (28-29 March, 2014) | Seminar | Paper presenter | National |
| 7 | Towards Development of good aquaculture technique for sustainable shrimp culture with reference to Indian scenario | BIT Congress Inc., Qingdao, China (6-8 November, 2015) | Conference | Invited talk | International |
| 8 | A venture towards exploring the major causes of student dropout from the Bachelor of Science programme at Netaji Subhas Open University, India | TamilNadu Open University, Chennai, India (23-25 April, 2015) | Conference | Paper presenter | International |

RESEARCH GUIDANCE:

| Sl. No. | Year | University | Name of Student | Year of Award | Topic |
|---------|------|-------------------------------|-----------------|---------------|---|
| 1 | 2014 | Netaji Subhas Open University | BMA Hasan | 2014 | Assessment of aquaculture techniques for ecologically sustainable shrimp culture in brackishwater ponds of West Bengal, India |

INVITED LECTURE:[Last 5 Year]

| Sl. No. | Topic | Date | Venue | National/International |
|---------|--|-------------------|--|------------------------|
| 1 | Fish diversity and challenges ahead for its conservation | 25 February, 2018 | West Bengal Govt. School Teachers' Association in collaboration with Social Environment and Biological Association | National |

TUTORIALS / PRACTICAL / PROJECT SUPERVISION & FIELD WORK: [Last 5 Year]

| Sl. No. | Type of Work | Related Programme | Year |
|---------|---------------------|---|---------|
| 1 | Project Supervision | PG Dissertation of Mr. Haripada Mondal (Enl. No. 162073230004) | 2017-18 |
| 2 | Project Supervision | PG Dissertation of Mr. Subhadip Chatterjee (Enl. No. 162073230008) | 2017-18 |
| 3 | Project Supervision | PG Dissertation of Mrs. Piyali Majumder (Enl. No. 162073230011) | 2017-18 |
| 4 | Project Supervision | PG Dissertation of Mr. Rahul Kayal (Enl. No. 162073230013) | 2017-18 |
| 5 | Project Supervision | PG Dissertation of Mrs. Sanchita Gol (Enl. No. 162073230016) | 2017-18 |
| 6 | Project Supervision | PG Dissertation of Mrs. Soumi Mallick (Enl. No. 172073230022) | 2018-19 |
| 7 | Project Supervision | PG Dissertation of Mrs. Susmita Bagdi (Enl. No. 172073230025) | 2018-19 |
| 8 | Project Supervision | PG Dissertation of Mrs. Ranita Bera (Enl. No. 162073230014) | 2018-19 |
| 9 | Project Supervision | P.G Dissertation of Mr. Sayed Md. Saifuddin (Enl. No. 152073230015) | 2018-19 |
| 10 | Project Supervision | PG Dissertation of Mrs. Apluta Dubey | 2019-20 |

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| | | (Enl. No. 182089230006) | |
| 11 | Project Supervision | PG Dissertation of Mrs. Baishali Sarkar (Enl. No. 182089230008) | 2019-20 |
| 12 | Project Supervision | PG Dissertation of Mrs. Satyapriya Biswas Mondal (Enl. No. 182089230020) | 2019-20 |
| 13 | Project Supervision | PG Dissertation of Mrs. Sulagna Das (Enl. No. 182089230025) | 2019-20 |
| 14 | Project Supervision | PG Dissertation of Mrs. Tanureema Biswas (Enl. No. 182089230027) | 2019-20 |
| 15 | Project Supervision | PG Dissertation of Mrs. Moumita Chatterjee (Enl. No. 201089230011) | 2020-21 |
| 16 | Project Supervision | PG Dissertation of Mrs. Poulami Banerjee (Enl. No. 201089230016) | 2020-21 |
| 17 | Project Supervision | PG Dissertation of Mr. Subhadip Sarkar (Enl. No. 201089230020) | 2020-21 |
| 18 | Project Supervision | PG Dissertation of Sure Rahman (Enl. No. 201089230021) | 2020-21 |

Declaration: I do hereby certify that all the statements above are consummate.

Bibhas Bha

Signature

Date: 2 March, 2023