

Dr. (Mrs.) Gargee Mohanty

Assistant Professor of Zoology

P.G. Department of Zoology

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**Personal Details**

- **Date of Birth:** 12 April 1976
- **Sex:** Female
- **Citizenship:** Indian

Educational Qualifications

- **Bachelor of Science (B.Sc.)**
Utkal University, Orissa, India
Year: 1996
Division: 1st
Subject: Zoology (Honors)
- **Master of Science (M.Sc.)**
Utkal University, Orissa, India
Year: 1999
Division: 1st
Subject: Zoology (with specialization in Cytogenetics)
- **Pre-Ph.D.**
North Orissa University, Orissa, India
Year: 2006
- **Doctor of Philosophy (Ph.D.)**
North Orissa University, Orissa, India
Year: 2009
Specialization: Animal Biotechnology and Molecular Toxicology
Thesis Title: "Studies On Genotoxic Effects of Furadan and Phorate On Indian Major Carp, *Labeo rohita* (HAM)"

Summary of Doctoral Research Work

The doctoral study investigates the genotoxic effects of two pesticides, phorate (an organophosphate) and furadan (a carbamate), on rohu (*Labeo rohita*) fingerlings. The 96-hour LC₅₀ values were determined to be 10 ppm for phorate and 1 ppm for furadan. To assess DNA damage, rohu fingerlings were exposed to various concentrations of each pesticide, and tissue samples (blood, liver, gill) were analyzed using the alkaline comet assay. The results indicated that DNA damage was minimal in blood cells but significant in liver and gill cells, with liver cells showing the highest damage. Phorate at 0.001 ppm did not cause notable DNA damage, whereas higher doses and furadan at 0.002 ppm or more were genotoxic. Recovery studies showed partial DNA repair in liver cells for phorate-treated fish after 24 hours and complete recovery for furadan-treated fish after 6 hours in pesticide-free water.

Additionally, in vitro blood cell cultures were used to demonstrate the applicability of this system for DNA damage and recovery studies. Both pesticides induced genotoxic effects, but all tested doses showed reduced DNA breaks after 1.5 hours in pesticide-free media, with complete recovery for lower doses of phorate and furadan. RAPD-PCR analysis of DNA from blood and liver tissues revealed changes in genomic stability, particularly in liver samples exposed to furadan. Overall, the study confirms the suitability of rohu as a model organism for genotoxicity studies, highlighting the effectiveness of alkaline comet assay and RAPD-PCR in evaluating DNA damage from pesticide exposure.

Skills Acquired During Doctoral Studies

During my doctoral research at North Orissa University and at Central Institute of Freshwater Aquaculture, Bhubaneswar, I developed and honed a range of technical, analytical, and research skills. These skills include:

- **Experimental Design and Execution:** Gained extensive experience in designing and conducting experiments to assess genotoxic effects of pesticides on aquatic organisms. Developed expertise in determining LC50 values and evaluating DNA damage using advanced techniques.
- **Advanced Laboratory Techniques:** Mastered various laboratory techniques such as the alkaline comet assay, Protein, RNA and DNA isolation, their estimation and characterization using gels, PCR, blotting techniques. RAPD-PCR was learnt by me for DNA damage assessment and genomic stability analysis during the doctoral work. Proficient in preparing and staining comet slides, performing agarose gel and PAGE electrophoresis, and interpreting complex gel patterns.
- **Statistical Analysis and Data Interpretation:** Acquired skills in performing detailed statistical analyses, including regression analysis and nonparametric tests, using Microsoft Excel and SPSS. Developed the ability to analyze experimental data to identify trends and draw meaningful conclusions.
- **Data Visualization and Reporting:** Enhanced abilities in visualizing data through graphical representation and statistical summaries. Experienced in writing detailed research reports and presenting findings in a clear, organized manner.
- **Recovery Studies and In Vitro Techniques:** Conducted recovery studies to assess DNA repair mechanisms in pesticide-exposed fish and utilized short-term blood cell cultures to investigate in vitro DNA damage and recovery. Demonstrated the ability to apply these techniques to evaluate the efficacy of detoxification and repair processes.
- **Genomic Stability Analysis:** Proficient in using RAPD-PCR to analyze DNA profiles and assess genomic stability. Skilled in scoring changes in DNA profiles and calculating template genomic stability to evaluate the impact of pesticide exposure.

These skills were critical in conducting rigorous scientific research, analyzing complex data, and contributing valuable insights into the genotoxic effects of pesticides on aquatic life.

Academic Appointments

- **Senior Research Fellow (SRF)**
Institution: Fish Genetics and Biotechnology Division, Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar
Dates: October 17, 2000 – July 23, 2003

Responsibilities/Key Achievements: Conducted research in fish genetics and biotechnology, contributed to research publications, and supported various research projects.

- **Demonstrator**
Institution: Department of Biotechnology, North Orissa University, Baripada
Dates: July 2003 – November 2004
Responsibilities/Key Achievements: Taught undergraduate students, assisted in laboratory sessions, and supported research activities.
- **Lecturer**
Institution: Department of Biotechnology, North Orissa University, Baripada
Dates: November 2004 – December 2011
Responsibilities/Key Achievements: Taught both undergraduate and postgraduate courses. Contributed to curriculum development and participated in departmental meetings. (Note: Period spent on Ph.D. from 2006 to February 2009 included)
- **Lecturer**
Institution: Department of Zoology, M.P.C. (Autonomous) College, Baripada
Dates: July 2013 – April 2014
Responsibilities/Key Achievements: Taught undergraduate classes and participated in academic activities. Contributed to departmental administration.
- **Lecturer and Head of Department of Zoology, and Coordinator of PG Biochemistry**
Institution: Department of Zoology, M.P.C. (Autonomous) College, Baripada
Dates: June 2014 – Present
Responsibilities/Key Achievements: Oversaw the Zoology department, coordinated postgraduate biochemistry programs, managed academic schedules, and led departmental initiatives.
- **Assistant Professor**
Institution: P.G. Department of Zoology, North Orissa University, Takatpur, Baripada
Dates: May 2017 – Present
Responsibilities/Key Achievements: Engaged in teaching postgraduate courses, supervised research projects, and participated in departmental and university-level committees.

Summary of Academic Responsibilities and Achievements

As an academician, I have demonstrated a strong commitment to both teaching and research across various roles. As a Senior Research Fellow at CIFA, I conducted pivotal research in fish genetics and biotechnology, contributing significantly to scholarly publications and project support. In my role as a Demonstrator and Lecturer at North Orissa University, I taught a range of undergraduate and postgraduate courses, played a key role in curriculum development, and actively participated in departmental activities.

My tenure at M.P.C. (Autonomous) College involved overseeing the Zoology department as Head and coordinating postgraduate Biochemistry programs as Course Coordinator, where I managed academic schedules and spearheaded departmental initiatives. Currently, as an Assistant Professor at North Orissa University, I continue to engage in advanced teaching, supervise research projects, and contribute to both departmental and university-level committees, reflecting a strong track record in academic leadership and excellence.

Research Interests:

- My research interests span several interconnected fields, focusing on the intersection of biotechnology, environmental science, and human health. Central to my work is the study of genetic and biochemical responses of aquatic organisms to environmental stressors, particularly pesticide-induced genotoxicity in fish species. By employing advanced molecular techniques such as PCR and comet assays, I investigate DNA damage and repair mechanisms in aquatic organisms exposed to pollutants, contributing valuable insights into environmental monitoring and protection.
- Equally important to my research is the innovative bioprospecting of organic waste. I explore the potential of inedible parts and waste materials from fish and chicken to develop high-value products. My work in this area includes formulating nutraceuticals, creating microbial media, and isolating and characterizing bioactive peptides with antioxidant and anticancer properties. This approach not only enhances agricultural and industrial applications but also promotes sustainable practices by transforming waste materials into valuable resources.
- Additionally, I am dedicated to addressing pressing health issues among tribal populations in North Odisha. My research delves into the perimenopausal and postmenopausal health challenges faced by tribal women, assessing the prevalence and impact of these conditions while seeking strategies to improve their quality of life. I also investigate chronic kidney diseases prevalent in these communities, aiming to understand underlying factors and develop effective intervention strategies. By integrating these diverse research areas, my work aims to advance environmental sustainability, health solutions, and innovative applications of biotechnology.

Professional Activities:

- I have actively contributed to the academic community through a variety of professional activities. My experience includes reviewing numerous research articles for Scopus-indexed journals and other peer reviewed journals, which underscores my engagement with current scientific advancements and peer review processes. I have organized and led several key events, including a national seminar, a two-day workshop, and a one-week faculty development program. Additionally, I played a significant role in an academic-industry interface meet and have been involved in the organizing committees of various seminars and workshops.
- I have also chaired sessions during national seminars, contributing to the scholarly dialogue and exchange of ideas. My academic responsibilities extend to serving as an external examiner and being a member of the Board of Studies at my institution as well as other autonomous colleges. Furthermore, I am part of the conducting board for various examinations, ensuring rigorous academic standards. My contributions to the academic community are further demonstrated by delivering invited talks at international, national, and state forums, sharing my expertise and insights on diverse scientific topics.

Research Publications and Academic Contributions

A) Published Papers in Journals

1. Nayak, S., Behera, A., Chand, M. K., & **Mohanty, G.** (2009). PCR based detection of furadan genotoxicity effects in rohu (*Labeo rohita*) fingerlings. *Veterinary Research Communications*, 33(7), 771. Print ISSN 0165-7380; Online ISSN 1573-7446.
2. Nayak, S., Behera, A., & **Mohanty, G.** (2009). PCR based detection of Phorate genotoxicity effects in Rohu (*Labeo rohita*) fingerlings. *Research Journal of Biotechnology*, 4(2), 23-30. Print ISSN 0973-6263; E-ISSN 2278-4535.
3. Nayak, S., Behera, A., & **Mohanty, G.** (2011). Application of comet assay in the study of DNA damage and recovery in rohu (*Labeo rohita*) fingerlings after an exposure to phorate, an organophosphate pesticide. *Ecotoxicology*, 20, 283-292. Print ISSN 0963-9292; Online ISSN 1573-3017.
4. Nayak, S., Behera, A., **Mohanty, G.**, & Ranjan, R. (2013). Use of comet assay in the study of DNA break in blood and gill cells of rohu (*Labeo rohita*) after an exposure to furadan, a carbamate pesticide. *Research Journal of Biotechnology*, 8(2), 83-89.
5. Behera, A., Kumar, D., & **Mohanty, G.** (2011). In vitro antibacterial and antioxidant studies of Croton roxburghii L., from Similipal Biosphere Reserve. *Indian Journal of Microbiology*, 51(4), 363-368. DOI: 10.1007/s12088-011-0133-2.
6. Behera, A., & **Mohanty, G.** (2011). Antibacterial activities and phytochemical analysis of Cassia fistula (Linn.) leaf. *Journal of Advanced Pharmaceutical and Technology Research*, 2(1), 62-67. DOI: 10.4103/2231-4040.79814.
7. Behera, A., Nayak, S., & **Mohanty, G.** (2011). Phytochemical analysis and antimicrobial activities of different plant parts of Vitex negundo L. *Journal of Pharmacy Research*, 4(9), 3184.
8. **Mohanty, G.**, Behera, A., Nayak, S., & Ranjan, R. (2018). Potentiality of short-term cultured cells of carps in DNA damage and repair studies. *International Journal of Biotechnology and Biomedical Sciences*, 4(2), 67-73.
9. Das, R., Behera, A., & **Mohanty, G.** (2021). Evaluation of haematological parameters among tribal menopausal women in Eastern India. *Indian Journal of Applied Research*, 11(9). e-print.
10. Das, R., Behera, A., & **Mohanty, G.** (2021). Evaluation of osteoporosis among the general and schedule tribal college students. *Journal of Emerging Technologies and Innovative Research*, 8(10). e-print.
11. Behera, A., & Nayak, S. **Mohanty, G.** (2022). A review on fish peptides isolated from fish waste with their potent bioactivities. *Journal of Applied Biology and Biotechnology*, 10(3), 195-209. DOI: 10.7324/JABB.2022.10.3.195.
12. Behera, A., Das, R., & Ranjan, R. **Mohanty, G.** (2022). Prevalence and severity of menopausal symptoms and anxiety in peri- and post-menopausal tribal women of northern Odisha. *Pranikee - Journal of Zoological Society of Orissa*, 34. ISSN 0970-4450.
13. Behera, A., Das, R., & Nayak, S. **Mohanty, G.** (2024). Antioxidant potential of bioactive peptides derived from fish waste: A focus on Catla catla liver and intestinal tissue. *International Journal of Experimental Research and Review*, 39(Special Volume), 39-50.

14. Behera, A., Nayak, S., & Das, R. **Mohanty, G.** (2024). Sustainable utilization of Catla catla scales: Formulation and production of microbial nutrient media. *Research Journal of Biotechnology*, 19(8), 83-91.
15. Ayusman Behera Rajashree Das Kumar Shambhav Giri Sukadev Das Manoj Kumar Chand, Hrudayanath Thatoi, **Gargee Mohanty (2025)**: Evaluating the effectiveness of fish organic liquid manure (FOLM) in enhancing maize growth and yield: a comparative study of organic and conventional fertilizers. **Discover Sustainability (Springer Nature Publications)**

B) Articles Chapters Published in Books

1. Panda, S. K. (Ed.), & Mohanty, G. (2018). Antiviral properties assessment of medicinal plants. In *Recent Advances in Natural Products* (pp. 303-320). Stadium Press LLC. ISBN 1-62699-060-3.
2. Stoytcheva, M. (Ed.), & **Mohanty, G.** (2018). Genotoxicity testing in pesticide safety evaluation. In *Pesticides in the Modern World – Pests Control and Pesticides Exposure and Toxicity Assessment* (pp. 403-426). Intech Publications. ISBN 978-953-307-457-3.
3. Sahoo, L. K. (Ed.), & **Mohanty, G.** (2018). Use of molecular diagnostics in tribal health. In *Tribal Health: A Regional Perspective* (pp. 211-231). Serials Publications Pvt. Ltd. ISBN 978-93-86611-11-6.
4. Thatoi, H. N., & Nayak, S. (Eds.), & **Mohanty, G.** (2019). Preliminary studies on determination of efficacy of some plant extracts against red spider mites (*Tetranychus urticae*) in brinjal plant (*Solanum melongena*). In *Biotechnology for Sustainable Utilization of Bioresources* (pp. 267-278). Daya Publishing House. ISBN 978-93-88982-00-9.
5. Raveen, R., & Tennyson, S. (Eds.), & **Mohanty, G.** (2021). Biosensors for the detection of persistent organic pollutants in water. In *Current Research in Biology* (pp. 1-18). AkiNik Publications. ISBN 978-93-5335-857-0.
6. Thatoi, H. N., & Debata, P. (Eds.), & **Mohanty, G.** (2021). Microbial biopesticides: An opportunity for improvement of livelihood generation. In *Biodiversity Conservation and Livelihood Management*. Astral Publications. ISBN 978-93-90435-13-5.
7. Malik, J. A. (Ed.), & **Mohanty, G.** (2022). Transgenic approaches for improving phytoremediation potential. In *Microbial and Biotechnological Interventions in Bioremediation and Phytoremediation* (pp. 1-18). Springer Nature. ISBN 978-3-031-08829-2.
8. Mohammad Zakmi Shamim, Jibanjyoti Panda, **Gargee Mohanty**, Bhaswati Gogoi, Kaustuvmani Patowary, Bishwambhar Mishra and Yugal Kishore Mohanta (2024): The Preventative and Curative Functions of Probiotics: A Paradigm of Food as Drug Revolution. In *Applied Biotechnology and Bioinformatics*. **Scrivener Publishing, Wiley**
9. Jibanjyoti Panda, Susmita Gharai, Sukadev Das, Smrutirekha Mahanta, **Gargee (2025)** Mushrooms Bioactive Compounds: As a Potential Source for Human Health. In *Advancements in Zoology Research*, Newredmars Education Private Limited, Bhubaneswar, Odisha
10. Devranjan Das, Subhashree Panda and **Gargee Mohanty (2025)** Navigating Menopausal Transitions: A Focus on Tribal Women in Mayurbhanj, Odisha In: *Communities Biodiversity and Conservation of Similipal*, Daya Publishing House A division of Astral International Pvt Ltd.

C) Books Published as a Single Author / Editor

- **Mohanty, G.** (2009). *Cells and Tissues – With a Special Reference to Vertebrates* (145 pages). ISHA Prakashan. ISBN 81-89075-86-1.
- **Mohanty, G.** (2010). *Understanding Human Physiology* (186 pages). ISHA Prakashan. ISBN 81-89075-93-4.
- **Mohanty, G.** (2025). *Toxicological Experimentation: Principles and Practices*. (447 pages). Newredmars Education Private Limited, Bhubaneswar, Odisha. ISBN : 978-93-93620-53-8
- **Mohanty, G.** (2025). (Editor): *Advancements in Zoology Research*. Newredmars Education Private Limited, Bhubaneswar, Odisha.

Research Projects and Consultancies

- Safe Disposal and Treatment of Bio Wastes and Its Management. (Co-PI, Consultancy Project, 2015-2018). Grants: INR 2,00,000.
- Evaluation of Antimutagenic Activities of *Abutilon indicum* L., *Bridelia retusa* L., and *Buchanania lanzan* Spreng. (PI, UGC-MRP Project, 2 years). Grants: INR 4,10,000.
- Conversion of Fish Waste as a Plant Growth Supplement. (PI, DST Project, 1.8 years). Grants: INR 10,00,000.
- A Collaborative Project on Studies on the Bioactive Properties of Small Peptides from Protein Hydrolysates of Fish Waste Using Biotechnological Tools and Suitable Incorporation into Bacterial/Animal Cell Culture Media for Better Growth. (PI, DST Collaborative Project, 3 years). Grants: INR 30,00,000.
- Isolation and Quantification of proteins or peptides and amino acids from fresh water fish waste (*Labeo rohita* or *Catla catla*) and their utilization in nutraceutical product development. (PI, MRIP -OHSEC, Govt. of Odisha funded Project, 2 years). Grants: INR 8, 72, 000/-

Patents

- **Mohanty, G., & Behera, A.** (2021). *Novel cost-effective process of conversion of fish visceral waste to organic liquid manure* (Patent No. 202131000041). **Official Journal of the Patent Office, India.** [Link to Patent](#)
- *Biodegradable Disposable Gloves* (Patent No. 2021106722). **Australian Innovative Patent, Australian Government.** Patent Status: Granted.
- *Sanitary Diaphragm Valve* (Patent No. 338163-001).
- **Mohanty, G., Behera, A., Akhtar, J., & Mohanty, J.** (2024). *Innovative method for cost-effective production of complete microbial media from freshwater fish scales* (Patent No. 202431028541). **Official Journal of the Patent Office, India.** [Link to Patent](#)

Transfer of Technology – 02

- 1) Transfer of Technology to Department of Agriculture, Govt of Odisha
- 2) Transfer of Technology to Skearth Private Ltd., Bangalore

Product Development: 05

1. Organic Fertilizer from fish waste
2. Instant Millet Products (02 different types)

3. Fertilized Cocopeat
4. Microbial media from fish scales
5. Microbial media from chicken feathers

Consultancy and Product Development

- **Skearth Pvt. Limited, Bengaluru** (Consultancy and product development, effective from 09-01-2024).

Start-up Awards

- **Two start-up awards received** under mentorship from the Start-up Odisha scheme.
- **One start – up grant** received under mentorship through the scheme offered by Rasthriya Vikas Yojna – Vikas -R-ABI, ICAR – CRRI Cuttack – Pre-seed fund of Rs 5 Lakhs

Extension Programmes

- **Facilitated an exposure visit** for over 40 farmers and agricultural dealers participating in the DAESI program of ATMA to the P.G. Department of Zoology, MSCBU.
- **Special invitees in seminars and workshops organized by ATMA, Govt. of Odisha**

Professional Memberships

- **Life Member** of The Indian Science Congress Association (ISCA), India.
- **Life Member** of Indian Fisheries Forum.
- **Life Member** of Zoological Society of Orissa (Membership No. 233).

Research Guidance

M. Phil. Supervision:

1. **Sasmita Nayak**
Preliminary Studies on Determination of Efficacy of Some Plant Extracts against Red Spider Mites (Tetranychus urticae) in Brinjal Plant (Solanum melongena)
 Degree: M. Phil.
 Year: 2018
2. **Abhipsa Nayak**
Antioxidative Properties of Fish Protein Hydrolysates Extracted from Cyprinus carpio and Ctenopharyngodon idella of Visceral and Scale Waste
 Degree: M. Phil.
 Year: 2019
3. **Smitashree Gouda**
Efficacy of Freshwater Fish Waste Fertilizer on the Growth of Cowpea (Vigna unguiculata L.) in Terms of Physical and Biochemical Parameters
 Degree: M. Phil.
 Year: 2020
4. **Susmita Gharai**
Antioxidant Properties of Fish Protein Hydrolysates Extracted from Visceral Waste of Catla catla

Degree: M. Phil.
Year: 2021-22

5. **Sukadev Das**

A Comparative Study on the Growth and Yield of Mungbean on Application of Chemical Fertilizer, Vermicompost, and Fish Liquid Manure

Degree: M. Phil.
Year: 2022-23

Ph.D. Supervision:

1. **Ayusman Behera (Awarded)**

Development of Biotechnological Approaches in Utilization of Freshwater Fish Waste
Degree: Ph.D.

2. **Himanshu Sekhar Sahu (Awarded)** *Study on the Psychological, Nutritional, and Lifestyle Diseases and Their Management in Peri and Post-Menopausal Women in Mayurbhanj District of Odisha*

Degree: Ph.D.

3. **Rajashree Das (Continuing)**

A comparative study of the effects of selected chemicals and organic fertilizers developed from fish waste on growth and productivity of Cow pea (Vigna unguiculata L.) grown in nutrient deficient soil.

4. **Debadutta Patra (Continuing)**

Development of Microbial Media from Fish Waste
Degree: Ph.D.

5. **Susmita Gharai (Continuing)**

Cost-Effective Microbial and Animal Cell Culture Media from Chicken Waste
Degree: Ph.D.

6. **Smrutirekha Mahanta (Continuing)**

Chronic Kidney Disease in Mayurbhanj and Keonjhar: A Holistic Approach in Understanding the Prevalence, Risk Factors and Genetic Determinants

7. **Sukadev Das**

Bioactive Compound Isolation from Red Weaver Ant and Their Utilization in Nutraceutical Development

B.Sc. and M.Sc. Dissertations:

- Supervised more than 120 dissertations.

Papers Presented in Conferences, Seminars, Workshops, and Symposia

International Conferences:

- **Studies on the Genotoxic Effects of Pesticides, Phorate and Furadan on Labeo rohita RAPD-PCR**
Fish for Health and Livelihood

Organized by: Asian Fisheries Society (Indian Branch) and Inland Fisheries Society of India
International / Oral Presentation

- **Assessment of DNA Repair Ability of Leaf Extracts of *Adhatoda vasica***
International Conference on Biodiversity and Sustainable Development: Strategies for Future
Organized by: N.C. College, Jajpur, 29-30 January 2019
International / Poster Presentation
- **Relevance of Comet Assay in the Study of DNA Break and Repair Studies in Liver Cells of Rohu (*Labeo rohita*) Fingerlings Following an Exposure to Furadan, a Carbamate Pesticide**
104th Indian Science Congress, Section II- Animal, Veterinary and Fishery Science
Organized by: S.V. University, Tirupati, 3-7 January 2017
International / Presentation Oral

National Conferences and State:

- **Comet Assay in the Study of DNA Break and Repair Kinetics in Rohu (*Labeo rohita*) Fingerlings After Exposure to Furadan, a Carbamate Pesticide**
Interdisciplinary Sciences – Key to Novel Innovations
Organized by: Indian Science Congress Association, Bhubaneswar Chapter, OUAT, BBSR and OES, BBSR
National/ Poster Presentation
- **Use of Comet Assay in the Study of DNA Break and Repair Kinetics in the Liver Cells of Rohu (*Labeo rohita*) Fingerlings After Exposure to Furadan, a Carbamate Pesticide**
Current Trends of Animal Science Research in India
Organized by: Department of Zoology, North Odisha University, Baripada
National. / Invited Speaker
- **Studies of DNA Damage and Repair Kinetics in Cultured Blood Cells of Rohu (*Labeo rohita*) Exposed to an Organophosphate Pesticide, Phorate**
Animal, Veterinary and Fisheries Science
Organized by: Indian Science Congress and NICER
National / Invited Speaker
- **Monitoring DNA Damage and Repair Kinetics in Cultured Liver Cells of Rohu (*Labeo rohita*) Exposed to an Organophosphate Pesticide, Phorate**
Current Approaches in Life Sciences
Organized by: Department of Zoology, M.P.C (Autonomous) College, Baripada
National / Invited Speaker
- **Testing Protocols for Evaluation of Medicinal Properties of Plants**
Plant Science and Human Welfare
Organized by: Department of Botany, M.P.C (Autonomous) College, Baripada
National / / Invited Speaker
- **Significance of Comet Assay in the Study of DNA Break and Repair Studies in Kidney Cells of Rohu (*Labeo rohita*) Fingerlings Following an Exposure to Furadan, a Carbamate Pesticide**
National Seminar on Biotechnology for Sustainable Utilization of Bioresources
Organized by: Department of Biotechnology, NOU and Society of Biotechnology and Bioinformatics, Bhubaneswar, 17-19 February 2017
National / / Invited Speaker

- m-RNA Vaccines**
A State Level Webinar on Molecular Basis of RNA Vaccine Against Covid-19
 Organized by: Remuna Degree College, Balasore, Odisha, India, 4 November 2020
National / / Invited Speaker
- Certification and Marketing of Organic Products (Farms and Products)**
A Training Programme on Organic Fertilizer Management in Crops
 Organized by: Agriculture Technology Management Agency (ATMA), Government of India, 24 February 2021
National / Invited Speaker
- Genetic Engineering**
Teachers Training Workshop on “Advances in Molecular Biology”
 Organized by: IDP, MSCB University, Baripada, India, 1-7 March
State / / Invited Speaker
- Organic Farming and Management of Soil Health**
DAESI (Diploma in Agriculture Extension Service for Input Dealers)
 Organized by: ATMA, Mayurbhanj, Odisha, 28 November 2021
National / Invited Speaker
- Integrated Farming System with Crop Diversification**
IEC Program to Celebrate Zila Mohotsav
 Organized by: Chief District Agriculture Officer, District Agriculture Office, Mayurbhanj, Odisha, 11-15 April 2022
State / Mentor and Invited Speaker
- Entrepreneurial Journey**
Celebration of World Entrepreneurship Day & Special Session on Women as Entrepreneurs
 Organized by: MSCBU Incubation Centre, 21 August 2023
State / Invited Speaker
- Impact of Climate Change on Mental Health**
OHEPEE – IDP Sponsored National Seminar on Climate Change: Issues and Challenges
 Organized by: P.G. Department of Economics, MSCB University, Baripada, Odisha, India, 23-24 May 2023
National / Invited Speaker
- Role of Tumour Markers in Cancer Diagnosis**
OHEPEE-IDP Sponsored National Seminar on Zoological Research on Sustainable Development
 Organized by: P.G. Department of Zoology, MSCB University, Baripada, Odisha, India, 23-24 May 2023
National / Invited Speaker
- Effects of Formulated Fish Organic Manure on Physical Parameters of Mung Bean (*Vigna radiata*)**
National Seminar on Science and Technology in Combating Climate Change
 Organized by: Odisha Bigyan ‘O’ Paribesh Congress, Sambalpur University, Odisha, India, 26-27 November 2022
Poster Presentation

- **Organic Farming**
I.C.R.O Amrit Internship Programme
Organized by: National, 2 February 2024
Invited Speaker
- **Optimization of a Method for Obtaining Fish Protein Hydrolysates from Scale Waste of Hypophthalmichthys molitrix for Formulating Microbial Media**
Dept. of Zoology, Udaynath Autonomous College of Science & Technology, Addaspur and ZSO, BBSR
22-23 March 2024
Poster Presentation / National

Training and Workshops Attended

- **National Training Course on Genetic Upgradation of Carps through Genome Manipulation, Selective Breeding and Biotechnological Tools**
 - Duration: 12-08-02 to 19-08-02 (8 days)
 - Organized by: Central Institute of Freshwater Aquaculture, Kaushalyaganga, Bhubaneswar, India
- **National Workshop on New Trends in Biotechnology and Bioinformatics**
 - Duration: 14-12-2004 to 30-12-2004 (16 days)
 - Organized by: University of Pune, Pune, Maharashtra, India
- **Training on Global Skill Enhancement Programme**
 - Duration: 23-07-2007 to 04-08-2007
 - Organized by: Infosys BPO Ltd., Bhubaneswar, India
- **Training in Industrial Biotechnology**
 - Duration: 15-05-15 to 15-06-15
 - Organized by: Imgenex India Pvt. Ltd., Bhubaneswar, India
- **Orientation Programme**
 - Duration: 22-Nov-19 to 19-Dec-19
 - Organized by: Sambalpur University, Sambalpur
- **Two Days Online National Workshop (Equivalent to a Regular National Workshop)**
 - Topic: Online Teaching Learning using LMS - Moodle
 - Organized by: Guru Angad Dev Teaching Learning Centre, University of Delhi, A Centre of MHRD under PMMMNMTT
- **Faculty Development Programme**
 - Organized by: NPTEL - AICTE
 - Topic: Genetic Engineering: Theory and Practical
- **5 Days Short Term Course**

- Duration: 5th July to 10th July 2021
- Organized by: I-DAPT – HUB Foundation, IIT (BHU) Varanasi
- Topic: Data Analytics and Predictive Technologies
- **7 Days Short Term Course**
 - Duration: 11/10/2022 to 17/10/2022
 - Organized by: Gujarat University, Ahmedabad
 - Topic: Soft Skills Development
- **One Day Workshop on Use of Mendeley for Reference Management**
 - Date: 7th Feb 2023
 - Organized by: MSCB University, Baripada
- **5 Days Short Term Course**
 - Duration: 24th to 28th April 2023
 - Organized by: Jointly by Parul University, Gujarat, Research Foundation of India and RFI – CARE
 - Topic: FDP on Innovative Teaching and Learning Pedagogy

Referees

1. Prof. S. K. Dutta

- Position: Retired Professor of Zoology, Maharaja Sriram Chandra Bhanja Deo University (Erstwhile North Orissa University), Baripada
- E mail : duttaphrynus@gmail.com
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Declaration

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

Signature:

Date: