



SASMITA SAMAL

Institute of Life Sciences, Nalco Square, Bhubaneswar-751023, India

Phone: +91 9437244759

Mail ID- sasmita.s@ils.res.in , sasmitasamal19@gmail.com

EDUCATION:

Qualification	Institute/ Organization	Board / University	Year of Passing	%/CGPA
PhD	Institute of Life Sciences	DBT- ILS, BBSR	2018 to Present	---
M.Phil.	PG Department of Zoology, Utkal University	Utkal University, BBSR	2018	72.5%
M.Sc.	PG Department of Zoology, Utkal University	Utkal University, BBSR	2017	81%
B.Sc.	College of Basic Sciences and Humanities	OUAT, BBSR, Odisha	2015	76%
+2	M.P.C. Junior college, Baripada	CHSE, Odisha	2011	78%
10 th	M.K.C. High School, Baripada	HSC, Odisha	2009	86%

AWARDS AND OTHER RECOGNITIONS:

1. Bagged first prize in seminar competition during M.Sc. (2015- 2017).
2. Qualified CSIR-JRF, 2016, GATE, 2017, NET-LS, 2017.
3. Participated in group discussions and debates.
4. Presented poster during M.Sc.

DISSERTATION AND RESEARCH EXPERIENCE:

Type of Work	Title of Project	Supervisor	Institution	Year
M.Phil. thesis	A Comparative Study on The Effect of Plant Extracts and Urea on Regenerative Capacity of Earthworm <i>Eisenia fetida</i> (Savigny, 1826).	Dr. Sudhansu Sekhar Nishank, Assistant professor	PG Department of Zoology, Utkal University	2017- 2018
M.Sc. Dissertation	Phylogenetic Analysis of CFTR (Cystic Fibrosis Transmembrane Conductance Regulator) In Vertebrates.	Dr. Sudhansu Sekhar Nishank, Assistant professor	PG Department of Zoology, Utkal University	December 2016- April 2017

CONFERENCES and OTHER ACTIVITIES:

1. Participated in oral presentation at International Conference on Technological Innovations in Animal Science Research and Social Transformation (**TIASRST**) organized by Utkal University, Bhubaneswar, from 25th -26th February **2023**.
2. Participated in Bajpai Saha student award oral presentation at the International Conference on Biomaterials, Regenerative Medicine, and Devices: **BIORemedi** organized by IIT Guwahati, Guwahati, from 15th -18th December **2022**.
3. Participated in oral presentation in the symposium "**Insights into the key trends in Biomaterial Research**", organized by Institute of Life Sciences, Bhubaneswar, from 27th -28th September **2022**.
4. Presented a poster at Laboratory Animal Scientists' Association (**LASA**) 10th International Conference organized by ICAR-NAARM, Hyderabad, from 3rd -4th June **2022**.
5. Participated in Virtual Training on Design of Experiments (**VTDOE**) online workshop organized by Bharathiar University, Coimbatore, from 4th -5th March **2022**.
6. Presented a poster at the Annual poster evaluation at Institute of Life Sciences, Bhubaneswar, **2022**.

7. Attended international conference on Chemistry For Future (**CFF**)- Virtual mode, **2021**.
8. Attended **ICBBI** Virtual conference, **2020**, Bharatiyar University, Tamilnadu. Presented a poster entitled “Investigating exosomes as a potential biomaterial for bone regeneration”.
9. **BioTERM-2019**. International Conference on Biomaterial-Based Therapeutic Engineering and Regenerative Medicine, 28th Nov-1st Dec 2019, IIT Kanpur. Presented a poster entitled “Exploring the role of exosomes as biomaterials to target bone disorders”
10. Participated in 4th Orientation Workshop on Laboratory Animal Sciences (**OWLAS**), **2019** at NISER, Bhubaneswar.

Ph.D. MENTOR:

Dr. Mamoni Dash, Ph.D.

Scientists- C, Institute of Life Sciences, Nalco Square, Bhubaneswar- 751023, India.

AREA OF RESEARCH

BROAD AREA: Biomaterials in bone therapeutics.

AREA OF SPECIALIZATION: Isolation, characterization, and cargo investigation of cell-derived exosomes in bone regeneration, and targeted drug delivery to osteosarcoma tumor site. Synthesis of biomaterials for use in bone tissue engineering.

PUBLICATIONS:

1. P. Dash, **S. Samal**, G. Panda, AM Piras, M. Dash, Polymeric Nanoformulation of Zoledronic Acid Rescues Osteoblasts from the Harmful Effects of its Native Form: An In Vitro Investigation of Cytotoxic Potential on Osteoblasts and Osteosarcoma Cells. Macromolecular Bioscience, 2023, 2300211.
2. **S. Samal**, D. Barik, S. Jena, Post craniotomy pain management in Copenhagen rat by intraperitoneal or oral dosage of tramadol: A comparative evaluation. Scientific Reports, Article under Revision, Reference number: Submission ID: 96104a3f-03a7-4bbf-b11d-ba3fcfe9771e.
3. M. Dash, **S. Samal**, D. Barik, A 3D-EXTRACELLULAR MATRIX SCAFFOLD AND METHOD OF PREPARATION THEREOF, 2023, Patent application no.: 202331001486.

4. **S. Samal**, M. Dash, Biomimetic via exosome mimetics in regenerative medicine and therapeutics, M. Dash (Ed.), *Springer Nature*, ISBN: 978-981-16-4565-5 (2021).
5. **S. Samal**, P. Dash, M. Dash*, Drug Delivery to the Bone Microenvironment Mediated by Exosomes: An Axiom or Enigma. *International Journal of Nanomedicine*, 2021, *16*, 3509-3540.

PERSONAL DETAILS:

PRESENT ADDRESS: Room no.- A6, Institute of Life Sciences, Campus II, Niladrivihar, Bhubaneswar, Odisha, India-751021

PERMANENT ADDRESS: C/O- Gopal Chandra Samal, At- Purnachandrapur, W. No.- 15, PO- Baripada, Mayurbhanj, Odisha. PIN- 757001

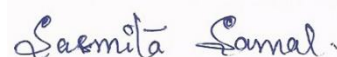
SKILLS & EXPERIENCES:

- Hard working and sincere
- Confident
- PowerPoint Presentation skills
- Languages- Odiya, English, Hindi, Bengali
- Western Blotting, RT-qPCR, Ultracentrifugation, Cell culture, Electron microscopy, Dynamic light scattering (DLS), Flow cytometry, Confocal microscopy, Electroporation, Small RNA sequencing, Next Generation Sequencing (NGS 550), Lab animals handling (Copenhagen rat, Balb/c nude mice), IVIS imaging, MicroCT, Transfection.

DECLARATION:

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Bhubaneswar



Signature

SASMITA SAMAL