

**Name:** - Dr. SUBHASHREE PRIYADARSINI

**Designation:** Guest faculty

**Qualification:** - BSc., MSc., Ph.D.

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### **EMPLOYMENT DETAILS:**

Utkal university	March 2022- present	Guest faculty, Biotech dept.
Ravenshaw university	January 2021- December 2021	Guest faculty, Biotech dept.

### **EDUCATION:**

National Institute of Technology, Rourkela July 2015-June 2020

**Ph.D.**  
**Department:** Life science  
**Thesis title:** Effect of *Enterobacter ludwigii* and its suppressor graphene nanosheets on fly physiology, development, and metabolism  
**Area:** Cell and developmental biology  
**Advisor:** Dr. Monalisa Mishra

National Institute of Technology, Rourkela July 2013- May 2015

**MSc.**  
**Department:** Life science  
**Thesis title:** myc-miRNA-transcript regulatory crosstalk in STS oncogenesis  
**Area:** Bioinformatics  
**Advisor:** Dr. Bibekananda Mallick

College of basic science, OUAT, Bhubaneswar July 2010- May 2013

**BSc. Biotechnology**

### **HONORS AND AWARDS:**

Graduate Aptitude Test in Engineering, Govt. of India in 2015

### **RESEARCH EXPERIENCE:**

**National Institute of Technology, Rourkela**

July 2015-June 2020

**Designation:** Junior Research Fellow/Senior Research Fellow

**Topics:** Effect of *Enterobacter ludwigii* and its suppressor graphene nanosheets on fly physiology, development and metabolism

**CSIR-IMMT, Bhubaneswar**

May-July 2014

**Designation:** Summer\_research project

**Topics:** Isolation and characterization of arsenic resistant bacteria from marine environment

**National Institute of Technology, Rourkela**

July 2014-April 2015

**Designation:** MSc. dissertation fellow

**Topics:** myc-miRNA-transcript regulatory crosstalk in STS oncogenesis

### **TEACHING EXPERIENCE:**

NIT Rourkela	2015-2018	Teaching Assistantship
Utkal university	March 2022- present	Guest faculty, Biotech dept.
Ravenshaw university	January 2021- December 2021	Guest faculty, Biotech dept.

### **PUBLICATIONS:**

#### **Ph.D. THESIS**

**Dr. Subhashree priyadarsini**

**Thesis title:** - Effect of *Enterobacter ludwigii* and its suppressor graphene nanosheets on fly physiology, development and metabolism.

**Supervised by:** - **Dr. Monalisa Mishra**, Assistant Professor, Neural developmental biology lab, Department of Life Science, National Institute of Technology Rourkela, Odisha, India, Phone (O): 0661-2462784, Phone (R): 0661-2463665, Email Id: [flylab.nitrkl@gmail.com](mailto:flylab.nitrkl@gmail.com)

#### **JOURNAL ARTICLES**

1. **Priyadarsini, S.**, S. Mukherjee, S. Samikshya, A. Bhanja, S. Paikara, N. Nayak and M. Mishra (2020). "Dietary infection of *Enterobacter ludwigii* causes fat accumulation and resulted in the diabetes-like condition in *Drosophila melanogaster*." Microbial Pathogenesis: volume 149, pp 104276.
2. **Priyadarsini, S.**, M. Sahoo, S. Sahu, R. Jayabalan and M. Mishra (2019). "An infection of *Enterobacter ludwigii* affects development and causes age-dependent neurodegeneration in *Drosophila melanogaster*." *Invertebrate Neuroscience* 19(4): 13.
3. **Priyadarsini, S.**, et al. (2019). " Oral administration of graphene oxide nano-sheets induces oxidative stress, genotoxicity, and behavioral teratogenicity in *Drosophila melanogaster*." *Environmental Science and Pollution Research*: Volume 26, Issue 19, pp 19560–19574.

4. Konar, M., N. Nayak, **S. Priyadarsini**, M. Mishra and H. Sahoo (2019). "Antimicrobial activity of nanoparticle-based dental fillers on novel chromogenic bacteria *Enterobacter ludwigii*." *Materials Research Express* 6(8): 085407.
5. **Priyadarsini, S.**, et al. (2018). "Graphene and graphene oxide as nanomaterials for medicine and biology application." *Journal of Nanostructure in Chemistry*: 1-15.
6. **Priyadarsini, S.**, Mukherjee, S., & Mishra, M. (2017). Nanoparticles used in dentistry; a review. *Journal of Oral Biology and Craniofacial Research*.
7. Sabat, D., **Priyadarsini, S.**, & Mishra, M. (2016). Understanding the Structural and Developmental Aspect of Simple Eye of *Drosophila*: The Ocelli. *J Cell Signal*, 1(109), 2.

### **JOURNAL ARTICLES UNDER REVIEW/COMMUNICATED**

1. **Subhashree Priyadarsini**<sup>1</sup>, Moumita Sahoo<sup>2</sup>, Janmejaya Bag<sup>1</sup>, Pragalbha Pragyannita<sup>1</sup>, Swetapadma Sahu<sup>1</sup>, Monalisa Mishra<sup>1\*</sup>, Assessment of genotoxicity and neurotoxicity of histamine using model organism *Drosophila melanogaster*, *Drug chemical Toxicology*, 2019
2. **Subhashree Priyadarsini**, Sanjeev Kumar Paikara, Rajeev Ranjan, Monalisa Mishra\*, Alteration of dental material due to betel nut chewing and bacterial infection, *Journal of Oral and Maxillofacial Surgery*, 2019.

### **BOOK CHAPTERS**

1. **Priyadarsini, S.**, et al. (2020). Application of Nanoparticles in Dentistry: Current Trends. *Nanoparticles in Medicine*, Springer: 55-98.
2. **Priyadarsini S**, Sumit Mukherjee, Monalisa Mishra (2020) Methodology to detect the abnormality of *Drosophila* gut by various staining techniques. *Fundamental approaches to screen abnormalities in flies*. Springer protocols. USA. pp 51-64
3. **Priyadarsini S**, Sumit Mukherjee, Monalisa Mishra (2020) Formulation of *Drosophila* food for various feeding studies. *Fundamental approaches to screen abnormalities in flies*. Springer protocols., USA pp 1-13
4. Satpathy A., Ranjan R., **Priyadarsini S.**, Gupta S., Mathur P., Mishra M. (2019) Diagnostic Imaging Techniques in Oral Diseases. In: Shukla A. (eds) *Medical Imaging Methods*. Springer, Singapore.

## **CONFERENCE ATTENDED**

1. Mishra M., **Priyadarsini S.**, 2017. Effects of Dental Bacterial Strain Enterobacter Ludwigii on Drosophila: A Model Organism to Study Host-Microbes Interaction. Indian science congress association (ISCA-2015), Organised by KIIT University, Bhubaneswar, Odisha, 751024, December 9-11th, 2015
2. SNCI-ACNN (Advances in Computational Neurochemistry and Neurobiology) 2015 29th Annual meeting, The Department of Biomedical Engineering and Computer Centre, North-Eastern Hill University, Shillong, MEGHALAYA, December 16th to 21st, 2015.