

**Name- Miss Snehalata Khuntia**  
**Qualification- M.sc Biotechnology**  
**Designation- Guest Faculty**  
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**Area of interest** – Cell Biology & Genetics, Molecular Biology, Genetic Engineering, Biochemistry & Metabolism, Genomics, Proteomics, Metabolomics

**Area of Research interest-** Chromatography technique and constituent analysis, Tissue culture technique, Metabolomics, Molecular Cloning and transformation technique, Primer designing, cDNA synthesis and RT- PCR

### **Teaching Area-**

**Under Graduation -** Cell Biology & Genetics, Molecular Biology, Genetic Engineering, Biochemistry & Metabolism, Genomics, Proteomics, Metabolomics

### **Published research articles –**

1. **Khuntia, S., Sahoo, B.C., Lenka, J., Kar, B., Sahoo, S.** *In-silico* prediction and *in vitro* validation of antioxidant, antibacterial and antifungal potential of Black Turmeric (*Curcuma caesia* Roxb.) essential oils and its constituents. ***Industrial Crops and Products***. (IF: 5.9) (ISSN: 0926-6690). 203, 117185.
2. **Khuntia, S, Lenka, J., Dash, M., Sahoo, B.C., Kar, B., Sahoo, S.** (2023) Bioactivity Screening of Thirty Black turmeric (*Curcuma caesia* Roxb.) Essential Oils Against Free Radicals and MDR Isolates. ***Pharmacognosy Magazine* 19(3); 615-625 (SCI, IF: 0.948)** (ISSN: 0973-1296, 0976-4062).
3. **Khuntia, S., Sahoo, D., Kar, B., Sahoo, S. (2022).** Metabolic profiling of *Kaempferia galanga* leaf and rhizome extract using GC-MS. ***Journal of applied and advanced research***. Vol (7).

### **Papers presented in Conferences/Seminars:**

1. S. Khuntia, J. Lenka, S. Singh, M. Dash, B.C. Sahoo, B. Kar, S. Sahoo (2022) Comparative phytochemical, antioxidant, antimicrobial potential of *Curcuma caesia* Roxb. rhizomes collected from different ecoregions of Eastern India. International Conference on Bioprocess for Sustainable Environment and Energy (ICBSEE) organised by NIT Rourkela, INDIA, 20 – 24<sup>th</sup> June 2022.

### **Education-**

Utkal University, Bhubaneswar, Odisha, India	2018
M.sc In Biotechnology	
Utkal University, Bhubaneswar, Odisha, India	2014
B.sc in Zoology	

## **Professional/ Work Experience-**

<b>Sl. No.</b>	<b>Professional/ Project Details</b>	<b>Organization</b>	<b>Role</b>	<b>Duration</b>
<b>1.</b>	Guest Faculty in Biotechnology	Buxi Jagabandhu Bidyadhar Autonomous college	Guest Faculty	4 <sup>th</sup> August 2024 - continuing
<b>2.</b>	Molecular characterization of <i>Curcuma caesia</i> (Black turmeric) through transcriptome profiling and cloning of terpenoid biosynthesis genes	Siksha O Anusandhan Deemed to be University	JRF	6 <sup>st</sup> January 2021 – April 2024

## **Internship, and workshops –**

1. 1 month Internship programme on “Molecular cloning and characterization of plant genes” under Dr. Suprava Sahoo in “Siksha O Anusandhan Deemed to be University”.
2. 6 months project on “Estimation of secondary Dengue using IgG using as a marker” under Dr. Jyotirmayee Turuk on Regional Medical Research Center, BBSR.
3. Internship programme in “Regional Institute of Biotechnology” based on molecular and microbiology.
4. Attended 2days workshop on “National seminar cum workshop on proteomics in public”.
5. Attended 4days workshop on “Nitza Bio venture” on “advanced technique in isolation, purification and characterization of industrial and pharmaceutical important enzyme, emerging application and the way forward”.