



Dr. Manisha Mohapatra

Ph.D.

Assistant Professor

School of Biotech Science, Trident Academy of Creative Technology, Bhubaneswar, Odisha

Area: Herbal Therapeutics, Bio-active secondary metabolites, Natural product biochemistry, Pharmacognosy & phytochemistry

Email id: manisha.mohapatra@trident.ac.in

Contact No: 7008913534

ORCID ID: 0000-0001-883-1555

Date of Joining: August 2019

Professional Synopsis

- Research Experience-7 years 2 months
- Teaching Experience-5 years
- Research Publications-18; Book Chapter-2
- FDPs-3; Refresher course-1

Research Focus

Herbal Therapeutics, Natural product biochemistry, Study of Bio-active secondary metabolites: phytochemistry and histochemical analysis, Pharmacognosy & pharmacology

Education

Degree Awarded	University/Board	Year
Ph.D.	Utkal University	2018
M.Sc.	Utkal University	2009

Research Experience

1. Worked as SRF in National Medicinal Plants Board (NMPB), Government of India funding projects (Total -2) and state funding, Government of Odisha projects (Total-3) from 2010-2017

Awards/Honors

1. Achieved **TOP PERFORMING MENTOR CERTIFICATE** from NPTEL, SWAYAM, Govt of India (July-December 2023)

2. Felicitated with **Champion Contributor & Super Mentor** awards from TRIDENT group of Institute (2023)
3. Senior Research Fellowship, NMPB, New Delhi, India (2016)
4. Junior Research Fellowship, NMPB, New Delhi, India (2010)
5. BITP Trainee, DBT, New Delhi, India (2009)

Publications (Recent Seven)

1. UC Basak and **Manisha Mohapatra**. Qualitative Analysis of Few Bioactive Compounds from *Ardisia solanacea* Roxb., Odisha, India, Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, **2024**; 94 (2), <https://doi.org/10.1007/s40011-024-01645-w> (**Springer Nature & SCIE**)
2. **Manisha Mohapatra** and UC Basak. Ethno-Medicinal & Therapeutic Applications of Natural Anthraquinones: Recent Trends and Advancement, *Indian Journal of Pharmaceutical Sciences*, **2023**; 83 (3):544-554, (**SCOPUS, SCIE**)
3. **Manisha Mohapatra** and UC Basak. UHPLC assessment of embelin in specialized mangrove plant *Aegiceras corniculatum* (L) Blanco, *Bulletin of the National Research Centre*., Springer Open, **2022**; (2022) 46:215, <https://doi.org/10.1186/s42269-022-00911-z> (**Springer Open, SCOPUS**)
4. **Manisha Mohapatra** and UC Basak. Co-relational study on embelin content in wild & cultivated non fruit plant parts of *Embelia tsjeriam-cottam* A. DC., *Research Journal of Pharmacy and Technology*., **2022**; 15 (2): 575-580 (**SCOPUS**)
5. **Manisha Mohapatra** and UC Basak. Assessment of Antioxidant Activity of Crude and Purified Bio-active Compound, Embelin in *Aegiceras corniculatum* (L.) Blanco: A Less-explored Mangrove Plant, *Indian Journal of Pharmaceutical Education and Research*., **2021**; 55 (3): 793-800 (**SCOPUS**)
6. **Manisha Mohapatra** and UC Basak. Evaluation of Piperine from leaves of *Piper longum* Linn., *Int. J. Pharm. Res.*, **2021**; 13 (1): 531-536 (**EMBASE**)
7. **Manisha Mohapatra**. Micropropagation of Gerbera (Black jack) from *in vitro* culture using a standardized protocol, *Res. J. Biotechnol.*, **2020**; 15 (12): 107-112 (**SCOPUS, UGC Care, ESCI**)

Books/Book Chapters Published

1. **Manisha Mohapatra** and S Singh, **2024**, Bioplastic: Unravelling the Sustainable Approach for Petroleum Plastic, In: Harnessing Microbial Potential for Multifarious Applications, **Springer Nature** Singapore Pvt Ltd, pp 205-233 ISBN: 978-981-97-1151-2, eBook ISBN: 978-981-97-1152-9

manisha.mohapatra@trident.ac.in

2. Uday Chand Basak, **Manisha Mohapatra**. 2019. Exploring embelin, an important phytochemical, in both RET & non-RET plants. *Frontiers in Plant Sciences*, Regional Plant Resource Centre publishers, pp 209-228

Journal Reviewer ship

1. Acting as a reviewer in *Phytomedicine Plus*, **Elsevier** since August 2023
2. Acting as a reviewer in *Indian Journal of Pharmaceutical Education and Research*, since May 2024

Professional Memberships

1. Life Member of Odisha Botanical Society since 2023

FDP/Refresher Course attended

- Refresher course in Biosciences with Grade A from MMTTC, Utkal University from 19th February - 3rd March 2024
- FDP Certification course of 12 weeks duration by NPTEL, SWAYAM, Govt of India
 - **Biophotonics** (Jan-April 2023)-**61% (ELITE)**
 - **Introduction to Biomimicry** (July-Dec 2023)-**70% (ELITE)**
 - **Pharmacognosy and metabolic engineering** (Jan-April 2024)-**76% (ELITE SILVER)**

Others

1. Participated and delivered oral presentation on the topic “Evaluation of piperine content in roots of *Piper longum* Linn., a RET medicinal plant of Odisha” in the National conference on “Biodiversity Assessment, Monitoring and Conservation: Application of Biotechnological Tools” organised by Regional Plant Resource Center, Odisha and Orissa Botanical Society, Bhubaneswar
2. Excellence in “CCP”, “C” and “PGDCA”

Motivational Note

No matter how good you are, you can always be replaced. So update your skills