



Dr. Swarnendu Mondal

Assistant Professor(Stage-III)

Department of Botany

Email: mucwasm@gmail.com

Ph. No.-8637017066

M.U.C. Women's College
(The University of Burdwan)
B.C. Road, Rajbari,
Purba-Bardhaman – 713104, West Bengal, India
Phone (Office): 0342-253316



Date of Joining in the college: 1st April, 2010

Permanent Address: S/O- Debasis Mondal.
Monosatalapara, P.O.- Sainthia
Dist.- Birbhum
Pin – 713102

Academic Qualification : M.Sc., Ph.D.

Honours and Awards: 1. Qualified in the 6th RLST conducted by West Bengal School Service Commission (WBSSC, 2005)
2. Qualified in the CSIR UGC NET(Life Science), 2007
3. Qualified in the GATE(Life Science), 2006 and 2007

Area of Research Specialization : Angiosperm Taxonomy, Ethnobotany,
Pharmacognosy and Phytochemistry

Previous Teaching experience: Secondary- 4 year(at Bonha Obedia High School, Bonha, Birbhum from 2006 to 2010)

Area of Teaching Specialization: Bryology, Plant Pathology, Taxonomy, Biodiversity, Conservation, Natural Resources, Ethnobotany, Economic Botany, Pharmacognosy, Plant Physiology

Membership of Academic Society & Journals:

- Life Member of Indian Science Congress Association (ISCA)
- Life Member of Indian Association for Angiosperm Taxonomy (IAAT)
- Reviewer of the *Journal of Sustainability and Environmental Management* (JOSEM), [Kathmandu, Nepal]. (<https://www.josemjournal.com/p/reviewer-database.html>)
- Editorial Board Member of the Journal *Frontiers*(Scientific Publ. Group) (<http://www.frontiersj.org/editorialboard>)

Sponsored research projects:

Sl. No.	Title of the Project	Name of the funding Agency	Minor/Major	Reference number
1	Studies on Ethnobotany and Conservation Priorities of some medicinal plants in the border areas of Birbhum district (West Bengal) and Dumka district(Jharkhand) with reference to their pharmacognostic and antimicrobial screening	University Grants Commission (ERO)	Minor	F.PSW-022/13-14(ERO) dated March 18, 2014

Papers presented in conferences / seminar / workshop:

1. A Contribution to the ethnomedicinal uses of plants by the tribal people of border areas of Birbhum district, West Bengal and Dumka district, Jharkhand' in **XIX Annual Conference of Indian Association for Angiosperm Taxonomy & International symposium on Angiosperm Systematics & Phylogeny: Retrospects & Prospects** held during 12-14th Nov. 2009 in CSIR-NBRI, Lucknow, India.
2. An observation on the phytotherapeutic uses of plants by the tribal people of some forest areas of Birbhum district, West Bengal and Dumka district, Jharkhand, India' in **XI International conference of International Organization for Plant Biosystematists on 'Evolution of plants from tropical to high mountain ecosystem: Focus on Asia**, organized by in B.A.M University, Aurangabad held during 2nd-4th Sept. 2010.
3. Traditional phyto-remedies for gynaecological disorders practised among the rural people of Birbhum district of West Bengal and Dumka district of Jharkhand in India' presented in **UGC Sponsored National Seminar on Challenges of Biology in the 21st Century in MUC Women's College**, Burdwan held during 1st-2nd Dec. 2011.
4. Botany, ethnobotany and conservation aspects of *Euphorbia fusiformis* Buch.-Ham ex D. Don. – a promising ethnomedicinal herb' presented in **National Symposium on Plant diversity and Resources: Evolution, analyses, stress and challenges and paleophytodiversity: its aspects and prospects' organised by Botanical Society of Bengal and Department of Botany, Calcutta University** held during 22th – 22nd Dec. 2011.
5. 'Taxonomy and New distribution record of *Jatropha nana* Dalzell and A. Gibson (Euphorbiaceae) from Eastern India' presented in the **International symposium and XXII annual conference of Indian Association for Angiosperm Taxonomy on 'Innovative Prospects in Angiosperm Taxonomy'** organized by Department of Botany, S.G.B Amravati University, Amravati, Maharashtra, India during 28- 30th Oct. 2012.
6. Presented paper in UGD-SAP Sponsored **National Seminar on Plant and Microbes: Diversity and Utilization** organised by the Department of Botany, Visva-Bharati, Santiniketan from 19-20 March, 2016.
7. Presented paper entitled " Medicinal uses of Plants practiced among the tribals in Birbhum district, West Bengal, India. In the **International Conference on Novel Approaches in Life Sciences**, held on 8- 9th April, 2022. Organized by Dept of Botany, Gurunanak Khalsa College of Arts, Science and Commerce, Mumbai.
8. Presented paper entitled " Applying ethnobotanical indices in framing conservation concern of medicinal plants: A case study from West Bengal, India, " in **Biospectrum 2022: International conference on Biotechnology and Biological sciences**, on 5- 7th Nov., 2022.
9. Presented paper entitled "Documentation of some new ethnomedicines used by local people of the Birbhum district, West Bengal. In **National seminar on A Glimpse of Plant Science** on 17th March 2023 organized by Ramananda Centenary College, Purulia.
10. Presented paper entitled "Documentation of some new ethno-herbal formulations with reference to..... West Bengal", in **International Conference on Life and Environment : Issues and Concern** on 9th March 2023. Organised by Dept. of Botany, Vivekananda Mahavidyalaya, Bardhaman.

List of Publications:

1. C.H Rahaman & Mondal Swarnendu (2012). Morphological and ethnomedicinal consideration of *Euphorbia fusiformis* Buch.-Ham. ex D.Don : Some new observations from district Birbhum , West Bengal, India. ***International Journal of Research in Ayurveda & Pharmacy***, 3(1): 113-116. ISSN(online):2229-3566; ISSN: (Print) 2277-4343. IC Value 2014: 7.89; SNIP 2014 = 0.235.
2. Swarnendu Mondal & Chowdhury Habibur Rahaman(2012). Phytotherapeutic uses of plants by the tribal and non- tribal people of Birbhum district of West Bengal and Dumka district of Jharkhand in India, ***Indian Journal of Traditional Knowledge***,11(4): 674-679.(Impact Factor: 1.091).
3. Chowdhury Habibur Rahaman & Mondal Swarnendu (2012). A new variety of *Jatropha nana* Dalzell & A.Gibson (Euphorbiaceae) from West Bengal, India. ***Indian Journal of Forestry***, 35(4): 477-480.
4. Swarnendu Mondal & Chowdhury Habibur Rahaman (2013).Traditional phyto remedies for gynaecological disorders practised among the rural people of Birbhum district of West Bengal and Dumka district of Jharkhand in India. ***Proceedings of the seminar on Challenges of Biology in 21st Century***, Levant Books publication(ISBN: 978-9380663- 66-1). Pages:113-119.
5. Swarnendu Mondal (2015). *Euphorbia fusiformis* Buch.-Ham. ex D.Don var. *fusiformis* (Euphorbiaceae): A new distribution record for the state of Jharkhand, India. ***Journal of Today's Biological Sciences: Research & Review***, 4(1):1-6.
6. Swarnendu Mondal & C.H.Rahaman(2015). New record of *Jatropha nana* var. *bengalense* C.H.Rahaman &S.Mondal (Euphorbiaceae) for the state ofJharkhand,India.***Journal of Non-Timber Forest Products***,22(1):17-20.
7. C.H. Rahaman, B. Pradhan & Swarnendu Mondal(2015). New Record of *Eulophia explanata* Lindl. (Orchidaceae) for the state of West Bengal, India. ***Indian Forester***, 141(8).
8. Swarnendu Mondal & Sunanda Chatterjee (2017). Pharmacognostic standardization and Antimicrobial screening of *Euphorbia fusiformis* Buch.-Ham. Ex D.Don (Euphorbiaceae). Poceedings of the UGC-sponsored National seminar on ***Plants, the natural wonder: issues and concerns***, organized by the Dept. of Botany, Sonamukhi College, Bankura, ISBN: 978- 93-85775-06-2.
9. Swarnendu Mondal (2017). *Tylophora hirsuta* Wight (Apocynaceae) – A new addition to the flora of Dumka district, Jharkhand, India. ***Int. J. of Innovative Sc., Eng. & Tech.***, 4(6): 335-337. Impact Factor- 5.264(2016). ISSN: 2348-7968.

10. Swarnendu Mondal & C.H.Rahaman(2020). Studies in pharmacognostic characters of the climber *Erycibe paniculata* Roxb. of Convolvulaceae. **J. Medicinal Plant Studies**, 8 (2): 112-125.
11. Swarnendu Mondal & Nayan Roy(2022). Pharmacognostic and Phytochemical Evaluation of Leaf of *Jatropha nana* var. *bengalense* C.H. Rahaman and S. Mondal: An Endemic Member of Euphorbiaceae. **Pharmacognosy Research** 2022; 14(2):204-210.
12. Swarnendu Mondal & N.P. Balakrishnan (2022). A review on Taxonomy, ethnobotany and conservation aspects of *Euphorbia fusiformis* (Euphorbiaceae): A review. **Journal of Economic and Taxonomic Botany**, 46(3-4): 111-120.
13. Swarnendu Mondal & Kasturi Chakrabarty(2022). Griffith's *Geodorum* – The Nodding Orchid. **ENVIS Newsletter**, 27(2): 3.
14. Swarnendu Mondal et al.(2023). *Geodorum laxiflorum* (Orchidaceae) relectotyped. **Nordic Journal of Botany (Under minor revision)** (IF: 0.931).
15. Bandana Pradhan & Swarnendu Mondal. Quantitative approach for identifying potential medicinal plants used by the Santal tribal people of Birbhum district, West Bengal, India. **Ethnobotany Research & Applications**(under review).
16. Bhattacharjee A., Bandyopadhyay S., Chakrabarty K., Sardar S., Mondal S., Chakrabarty S. & Sarkar, S. Nomenclatural consequences of some new combinations and replacement of names in *Eulophia* (Orchidaceae: Eulophiinae). **Rheedea** (under review).

Patent, recognition, other achievement/s or information

- Described a plant species of the family Euphorbiaceae (*Jatropha nana*) from West Bengal which is a first record from Eastern India.
- Awarded with Best poster presentation in UGC-SAP-DRS sponsored National seminar on 'Plant and Microbe: Diversity and Utilization' organized by Department of Botany, Visva-Bharati University, Santiniketan, during 19-20 March, 2016.
- Serving as a Reviewer of the journal *Ethnobiology Letters* (Under the Society of Ethnobiology, Washington, United States), *Journal of Ethnopharmacology* (Netherlands), *Plant Science Today* (Horizon Publication, India).

Research activity:

Past Research program: Tribal medicine and pharmacognosy of some medicinal plants of Dumka district (Jharkhand) and Birbhum district (West Bengal).

Present Research interests and future plan:

Broad area of his research is Ethnobotany and pharmacognosy of medicinal plants. Present focus of his research is ethnomedicinal plants with quantitative and ethnopharmacological approach. Broadly, the tri-area of interest of his research are:

- Taxonomy of some angiosperm families like Euphorbiaceae, Orchidaceae, etc
- Studying the flora and associated cultural uses of medicinal plants among the tribals considering quantitative ethnobotanical approach and bioprospecting.
- Pharmacognostic and pharmacological studies of tribal phytomedicines