



Name: Dr. MOUMITA SAHA

Academic Qualification: M.Sc. in Botany (Gold Medalist), Ph.D.

Research Designation: Senior Research Fellow (INSPIRE, DST, Govt. of India)

Present Position: Assistant Professor in Botany (Shri Gnanambica Degree College, Madanapalle)

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Educational profile

Examination	Year of Passing	Board/University	Total Marks	Marks Obtained	% of Marks Obtained
Madhyamik	2003	TBSE	800	501	62.63
H.S. (+2 Stage)	2005	TBSE	1000	516	51.06
B. Sc. Botany (Hons.)	2008	Tripura University	800	436	54.5
M.Sc. (Botany)	2010	Tripura University (A Central University)	1600	1118	69.88 (First class First, Gold Medalist)
Ph.D Course Work	2013	Tripura University (A Central University)	400	286	72

Details of Teaching Experience (In chronological order):

	Name of the Organization	Designation	From Date	To Date	Duration (MM/YY)	Organization Type
1.	MBB College, Agartala, Tripura	Guest Lecturer, Dept. of Botany	2017	15.06.2018	2 years	State
2.	Shri Gnanambica Degree College, (NAAC A+ Accredited) Madanapalle	Assistant Professor, Botany	15.07.2018	Till date	Present	Private

Research Experience

Project Fellow in Tripura JICA project entitled “Inventorization of Plant Biodiversity Resources of Tripura” under Department of Botany, Tripura University.

Journal Reviewer

Vegetos Springer Journal

IGI Global Book

Patents Filed

1. A novel method for producing nanobiofuel by using sewage oil. (Application number **202141042345**)
2. Nanomaterial composition for the biochemical treatment of wastewater and preparation method thereof. (Application number **202141056435**)
3. Cultivating functional crops using nano organic composition and method thereof. (Application number **202241001185**)
4. Development and Characterization of Novel Herbal Formulations for the Simultaneous Phytochemical Analysis Antioxidant and Antibacterial Activities. (Application number **202341078801**)

Special Achievement:

1. Certificate in “**Best Paper Presentation Award: First**” in National Seminar on “**Perspective of Phytoresource and its Sustainable Utilization**” organized by Department of Botany, UGC-SAP (DRS-I), Tripura University, 2017.
2. Certificate in “**Best poster presentation: Third**” in National Seminar on “**Water and Biodiversity**” organized by Department of Botany and Tripura Biodiversity Board (TBB), 2013.

Life Member:

1. Fellow of the Society of Plant Reproductive Biologists (FSPRB).
2. East Himalayan Society of Spermatophyte Taxonomy (EHSST).
3. Scientific Advisor: Solanaceae of North-East India (Ambika Prasad Research Foundation).

Area of Specialisation:

1. Plant Systematics & Biodiversity.

2. Plant Reproductive Biology.

Paper publications (National & International):

1. Bhowmik, S., Saha, M. and Datta, B. K. 2011. **Micromorphometric and Cuticular Morphology of two Species of *Phyllanthus* Linnaeus (Euphorbiaceae)**. In: *Recent Studies in Biodiversity and Traditional Knowledge in India* (ed) Ghosh and Das. pp. 75-79. Sarat Publishers, Kolkata.
2. Bhowmik, S., Saha, M. and Datta, B. K. 2012. **Extended Distribution of *Rotala rotundifolia* (Buch.-Ham. ex Roxb.) Koehne (Lythraceae) from India**. *NeBIO*. 3(2): 48-50.
3. Saha, M. and Datta, B. K. 2013. **New distributional record of *Solanum sisymbriifolium* Lamarck (Solanaceae) from Tripura, India**. *Pleione*. 7(2): 579-582.
4. Saha, M. and Datta, B. K. 2014. **Reproductive Biology of *Solanum viarum* Dunal (Solanaceae) in Northeast India**. *Pleione*. 8(2): 258-266.
5. Saha, M. and Datta, B. K. 2016. **Reproductive biology of *Phlogacanthus thyrsoiflorus* Nees: An important medicinal plant of North-East India**. *The International Journal of Plant Reproductive Biology*. 8(2): 197-201.
6. Saha, M. and Datta, B. K. 2016. **Reproductive biology of *Solanum violaceum* Ortega (Solanaceae): an important medicinal plant in North-East India**. *Journal of Botanical Society of Bengal*. 70(1): 23-29.
7. Saha, M. and Datta, B. K. 2017. **Observations on the reproductive biology of *Solanum torvum* Swartz (Solanaceae): an important medicinal plant in North-East India**. *The International Journal of Plant Reproductive Biology*. 9(1): 25-27.
8. Saha, M. and Datta, B. K. 2017. **Studies on some aspects of Reproductive biology of *Solanum sisymbriifolium* Lamk. (Solanaceae) in Tripura, North-East India**. *The International Journal of Plant Reproductive Biology*. 9(1): 59-62.
9. Saha, M. and Datta, B. K. 2017. **Diversity of *Solanum* L. (Solanaceae) in Tripura (India) including new records**. *Pleione*. 11(1): 85-96.
10. Saha, M. and Datta, B. K. 2018. **Andromonoecy in *Solanum viarum* (Solanaceae): a buzz pollinated taxon**. *The International Journal of Plant Reproductive Biology*. 10(1): 33-37.
11. Saha, M. and Datta, B. K. 2018. **Reproductive biology of *Solanum ovigerum* Dunal**. *Bioscience Discovery*. 9(1): 155-161.

12. **Saha, M.** and Datta, B. K. 2018. **Andromonoecy in *Solanum sisymbriifolium*.** In *proceedings of National Seminar on Contemporary Researches in Frontal Areas of Plant Sciences (CRFAPS-2015)* organized by Dept. Botany, Tripura University. Narosa Publishing House, New Delhi. Pp-129-135.

13. **Saha, M.** and Datta, B. K. 2018. **Diversity of Flowering Trees of Agartala, Tripura, India.** *Journal of Biodiversity and Conservation.* 1(2): 12-19.

14. **Saha, M.** and Datta, B. K. **Edible *Solanum* species used by the ethnic and local people of Tripura.** In: *Ethnopharmacology and Biodiversity of Medicinal Plants*, ed. Patra *et al.*, CRC Press, Taylor & Francis Group.

15. Arijit Bardhan Roy, Kalluri Vinay Kumar, **Moumita Saha** , “**Light management studies by using different surface texturing for thin c-Si solar cells**”, **Applied Physics A(Springer)** volume 127, 119 (2021), **Impact Factor: 2.7**

16. Hrudaya Ballava Das, Sanjeet Kumar, **Moumita Saha**, Rajkumari Supriya Devi, Susanta Kumar Biswal, “**Estimation of secondary metabolites and toxicity to *Artemia salina* L. of selected plants of family Combretaceae: an approach for screening of herbal preventive agents**”, **International Journal of Pharmaceutical Sciences and Research** volume 13(2):1000-08 (2022).

17. **Moumita Saha**, Ethnobotanically useful plant diversity in the wetland flora of Tripura (India), *Pleione*, 15(1), (2021).

18. **Moumita Saha**, “Diversity of wetland plants of Tripura”, *Bioscience Discovery*, 12(2):48-53, 2021.

19. **Moumita Saha**, A.B.Roy , S. Kumar and B.K. Datta, “**Ethnobotanical Diversity of some Wetland Plants of North-East India: Implications for Conservation**”, *Indian Forester*, 148(11) : 1149-1154, 2022.

20. **Moumita Saha**. Floral morphometrics, cytology and fruit biochemical studies in wild population of *Solanum viarum* Dunal am ethnomedicinal plant of North East India. *Vegetos*, 2024.

Book Chapter:

Arijit Bardhan Roy, Kalluri Vinay Kumar, **Moumita Saha**, APPLICATION AND UTILIZATION OF HIGH ASPECT RATIO ANTI REFLECTIVE Si NANO STRUCTURE EMBEDDED

Paper presented in the Seminar/ Symposium:

International:

1. **Saha, M.** and Datta, B. K. 2014. **Reproductive biology of *Solanum violaceum* Ortega (Solanaceae).** Abstract P-32 at III Global Congress on “Plant reproductive biology, conservation and crop improvement” organized by “The Society of Plant Reproductive Biologists” held at Taj Inn Hotel, Agra from 15th-17th December, 2014.

National:

2. **Saha, M.,** Bhowmik, S. and Datta, B. K. 2013. **Floristic survey of Trees in Agartala, Tripura, India.** Abstract P-143 at Proceedings of the Centenary Session of the Indian Science Congress held at Kolkata from 3rd -7th January, 2013.
3. Kar, S. and **Saha, M.** 2013. **Epidermal Morphology of some members of Asteraceae in relation to their systematic relationship.** Abstract P-149 at Proceedings of the Centenary Session of the Indian Science Congress held at Kolkata from 3rd -7th January, 2013.
4. **Saha, M.,** Datta, B. K. and Gupta, A.K. 2013. **Floristic diversity of Aquatic and Marsh plants of Khowai River System of Tripura, India.** Abstract P-38 at National Seminar on “Water and Biodiversity” held at Tripura University on 22nd May, 2013.
5. **Saha, M.,** Kar, S., Datta, B. K. and Gupta, A.K. 2013. **Diversity of Aquatic and Marshy plants of Kurti Hoar, Tripura, India.** Abstract P-39 at National Seminar on “Water and Biodiversity” held at Tripura University on 22nd May, 2013.
6. **Saha, M. and** Datta, B. K. 2014. **Reproductive biology of *Solanum xanthocarpum* Schrad. and H. Wendl. (Solanaceae).** Abstract P-43 at National Symposium on “Himalayan Biodiversity: Prospects and Challenges” held at North-Eastern Hill University (NEHU) from 20th-21st March 2014.
7. **Saha, M. and** Datta, B. K. 2015. **Reproductive biology of the andromonoecious *Solanum sisymbriifolium* Lamarck.** National Seminar on “Contemporary Researches in Frontal Areas of Plant Sciences” held at Tripura University from 17th - 18th March, 2015.

8. **Saha, M., Datta, B. K. and Gupta, A. K. 2015. Diversity of Aquatic and Marshy Plants of Bidyabil Hoar, Tripura, India.** Abstract P-44 at National Seminar on “Biodiversity for Sustainable Development” held at Tripura University from 25th -26th May, 2015.
9. **Saha, M. and Datta, B. K. 2015. Diversity, Distribution and Indigenous uses of *Solanum* species in Tripura, North-East India.** Abstract P-45 at National Seminar on “Biodiversity for Sustainable Development” held at Tripura University from 25th -26th May, 2015.
10. **Saha, M. and Datta, B. K. 2016. Observations on the floral biology of *Solanum ovigerum* Dunal (Solanaceae).** National Seminar on “Recent Trends in Plant Science Research” held at Tripura University from 15th - 16th March, 2016.
11. **Saha, M. and Datta, B. K. 2017. Andromonoecy in Tropical soda apple (*Solanum viarum* Dunal).** National Seminar on “Perspective of Phytoresource and its Sustainable Utilization” held at Tripura University from 9th -10th March, 2017.
12. **Saha, M. and Datta, B. K. 2018. Floral biology and breeding system of andromonoecious *Solanum torvum* Swartz.** Abstract P-77 at National Seminar on “Importance of sacred groves for the conservation of medicinal plants and biodiversity” held at Odisha on 7th January, 2018.
13. **Saha, M. and Datta, B. K. 2018. Reproductive success and breeding system of andromonoecious *Solanum torvum* Swartz.** National Seminar on “Plant Science Researches in North-East India” held at Tripura University from 7th June, 2018.

Seminar and Workshops participated:

1. “National Conference on Water, Energy and Biodiversity with special reference to North East Region” organized by The Institute of Engineers (India), Tripura state Centre and National Institute of Hydrology, Roorke, from 20-22 August, 2011.
2. “Seminar on Molecular Biology” organized by DBT Project, Dept of Microbiology, Agartala Govt. Medical College in collaboration with Biotechnology Hub, Tripura University (Central) on November 6, 2011.
3. “State Level Training of Field Investigators on Documentation Assessment and Promotion of Local Health Traditions in Tripura” jointly organized by Department of Botany, Tripura University and North Eastern Institute of Folk Medicine (NEIFM), Pasighat, Arunachal Pradesh, Department of Ayush, Govt of India, from 18th-25th February, 2012

4. "DBT Sponsored National Seminar Cum Workshop on Bamboo Cultivation and Resource Utilization" organized by Department of Botany, Tripura University (A Central University) from 2nd -6th March, 2012.
5. "Seminar on Molecular Biology" organized by DBT Project, Dept of Biochemistry, Agartala Government Medical College, Tripura University (Central) on March 31, 2012.
6. "International Day for Biological Diversity" on 22nd May, 2012.
7. "Symposium on Integrated Approach for Teaching & Research in Life Sciences" organized by Tripura University from September 28 -29, 2012.
8. "Third National Symposium on Earthworm Ecology and Environment (NSEEE-3)" organized by the Department of Zoology, Tripura University, Tripura, The Society for Earthworm Ecology and Environmental Research (SEEER) & Tripura Biodiversity Board (TBB) from November 9 -11, 2012.
9. Participation Certificate in the 100th Indian Science Congress. Kolkata. January 3-7, 2013.
10. Floristic Survey of Trees in Agartala, Tripura, India. Plant Science, 100th Indian Science Congress. Kolkata. January 3-7, 2013.
11. National Seminar on "Recent Trends in Ethnobotanical Research in North-East India" organized by Department of Botany, Tripura University from 15th -16th March, 2013.
12. "One day workshop on Enhancing Institutional Innovation with Intellectual Property Rights" organized by Tezpur University Intellectual Property Right Cell in collaboration with Equal opportunity Cell, Tripura University on 21st March, 2013.
13. National Seminar on "Water and Biodiversity" organized by Tripura Biodiversity Board (TBB) and Department of Botany, Tripura University on 22nd May, 2013.
14. Workshop on "Open Source Software System and Basics of Computer Networking" organized by Computer Centre, Tripura University (A Central University) from 11th -15th November, 2013.
15. Paper presentation certificate in the National Symposium on "Himalayan Biodiversity: Prospects and Challenges" held in the centre for Advanced Studies in Botany, Department of Botany, North-Eastern Hill University, Shillong from 20th-21st March, 2014.
16. Participation certificate in the workshop on "Fundamental Tools & Techniques in Bioinformatics" held at Bioinformatics Centre, Tripura University from 28th-29th March, 2014.

17. Participation certificate in the Author workshop on “Understanding the books & Journal Article Publishing Process” organized by Elsevier in collaboration with Central Library, Tripura University on 26th September, 2014.
18. Participation certificate in the Author workshop on “Skill development to write scientific literature, quality” improvement of manuscript for publication success organized by Springer in collaboration with Central Library, Tripura University on 18th November, 2014.
19. National Seminar on “Contemporary Researches in Frontal Areas of Plant Sciences” organized by Department of Botany, Tripura University from 17th -18th March, 2015.
20. Participation certificate in the Author workshop on “How to use Online Resources and Develop Skills to Write and Publish” organized by Wiley in collaboration with Central Library, Tripura University on 25th March, 2015.
21. Participation certificate in the workshop on “Fundamental Applications of Bioinformatics” held at Bioinformatics Centre, Tripura University from 27th-28th March, 2015.
22. Participation certificate in the CME: IMMUNOLOGY on “Immune responses against Infectious Diseases” organized by Dept. of Molecular Biology & Bioinformatics, Tripura University from 17th -18th April, 2015.
23. National Seminar on “Biodiversity for Sustainable Development” organized by Tripura Biodiversity Board (TBB) and Department of Botany, Tripura University in collaboration with Department of Forestry & Biodiversity and Department of Zoology, Holy Cross College, Agartala from 25th -26th May, 2015.
24. “Hands on Training of Biology practical Exercises of TBSE curriculum” organized by Department of Botany, Tripura University from 5th – 9th October, 2015.
25. National Seminar on “Recent Trends in Plant Science Research” organized by Department of Botany, Tripura University from 15th -16th March, 2016.
26. Participation certificate in the One day Symposium on “Modern Applications of Electron Microscopy in Interdisciplinary Research” organized by Department of Microbiology, Tripura University on 19th March, 2016.
27. National Seminar on “Perspective of Phytoresource and its Sustainable Utilization” organized by Department of Botany, UGC-SAP (DRS-I), Tripura University from 9th -10th March, 2017.
28. Workshop on “Capacity building in grant writing skills and effective management of Intellectual Property Rights (IPR) in Biotechnology by universities and research institutions

in the North East Region” organized by Biotech Consortium India Limited (BCIL), New Delhi held at Tripura University from 23th-25th February, 2017.

29. National Seminar on “Importance of sacred groves for the conservation of medicinal plants and biodiversity” organized jointly by Ambika Prasad Research Foundation, Odisha and Shree Gopal Jew Trust, Odisha in association with National Medicinal Plant Board, Ministry of AYUSH, Govt. of India on 7th January, 2018.

List of MOOCs Courses Completed

Serial No	Name of the Course	Authority	Duration and Date
1	COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response	WHO (World health organization)	17.5.2020
2	Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19)	Do	19.05.2020