

DR. MONORANJAN CHOWDHURY



DESIGNATION

Professor

ORGANIZATION

University of North Bengal

Qualification: **M.Sc; Ph.D**

OFFICE ADDRESS

DRS-SAP Department of Botany, University of North Bengal, Siliguri, Darjeeling, WB, 734013

SPECIALIZATION

BOTANY (Taxonomy of Angiosperm and Biosystematics)

TEACHING EXPERIENCE

Under Graduate – 8 Years (Assistant Professor, Department of Botany, Malda College) [01.09.2005-02.01.2013]

Post-Graduate/Ph.D – 8 Years [03.01.2013 to till now]

RESEARCH EXPERIENCE

19 years (Since 2003)

RESEARCH INTEREST

Plant Systematics, Ecology, Wetland & Forest biodiversity and conservation, Medicinal plants, Palynology, Ethno-botany

AWARD AND ACHIVEMENTS

1. CSIR-Junior Research Fellowship and NET-December, 2002.
2. Best Poster Presentation Award in '*International Conference on Algae, Fungi and Plants: Systematics to Application (AFPSA-2020)*' Organized by CAS, Department of Botany, University of Calcutta in collaboration with Botanical Survey of India. *Celebrating 100th Anniversary of Calcutta University Herbarium (CUH)*, on 24 & 25th January, 2020.
3. InSc Research Excellence Award 2021 by Institute of Scholars, Bangalore

LIFE MEMBER OF INTERNATIONAL /NATIONAL BODIES

1. IAPT (International Association of Plant Taxonomy)
2. IAAT (Indian Association of Angiosperm Taxonomy)
3. MAPAI (Medicinal and Aromatic Plants Association of India)
4. EHSST (East Himalayan Society of Spermatophyte Taxonomy)
5. APT (Association of Plant Taxonomy)

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FELLOW OF:

- ESST (East Himalayan Society of Spermatophyte Taxonomy)
- FIAT (Indian Association of Angiosperm Taxonomy)

RESPONSIBILITIES:

1. **Head**, Department of Botany [Since 14.07.2021]
2. **Executive Committee Member**, University of North Bengal [2022-2023]
3. **Secretary** : EHSST (East Himalayan Society of Spermatophyte Taxonomy) [March 2017-December 2020]
4. **Secretary**: NBU Teachers' Council [December, 2018-December, 2019]
5. **Joint Secretary cum treasurer**: NBU Teachers' Council (2016-2018)
6. **In charge**: Centre of Utilization and conservation of Aromatic and Medicinal plants, NBU [Since 2016]
7. **In Charge**: NBU herbarium and introduced NBU digital herbarium (www.nbuherbarium.in)[Since 2016][Index herbariorum]
8. **Chairman**: BoS, Environmental Studies, NBU
9. **Chairman**: BoS, Environmental Studies, NBU-DDE
10. **Superintendent**: Ramakrishna Hall of Residence, NBU[Since 2018]
11. **Member**, Board of Research, NBU[Since 2016]
12. **Vice-president**: Society for Indoor Environment, Siliguri chapter
13. **Program co-coordinator**: NSS, NBU [Since 09.12.19]

Reviewer of Journals *Phytotaxa, Rheedeana, Pleione, Journal of Plant Sciences, NBU Journal of Plant Science, Journal of Tropical life Science, Hacquetia, Wesleyan Journal of Research* etc.

Research Projects:

| Sl. No. | Title | Agency | Period | Grant/Amount Mobilized |
|---------|---|---|---|----------------------------|
| 1. | PSW-065/11-12(ERO) dt. 03.08.2011 (Maintenance & propagation of Medicinal plants at Malda College Medicinal plant garden) | UGC | 2 YEAR (Completed) | 1,83,000 |
| 2. | Study of vegetation structure and need of conservation of Mahananda Barrage Reservoir, Fulbari, Jalpaiguri | University research Grant as Principal Investigator | 1 YEAR (Completed) | 75000 |
| 3. | Habitat analysis, conservation and genomic studies of some RET plants of Terai and Duars and hills of Darjeeling | UGC SAP DRS III as Co-Principal Investigator | April, 2013- March, 2018 (5YEAR) (Completed) | UGC-SAP DRS-III (57 Lakhs) |
| 4. | Recovery of live specimens of Orchids and other epiphytes from the submerged area of TLDP under EMP (Teesta Low Dam Project) stage IV and transferring them to Medicinal Plant garden, NBU for conservation. (Ref. NH/TLDP-IV/Env.6/43 dt. 22.3.2016) | NHPC Principal Investigator | 2016 Six Month (Completed) | 52,485 |
| 5. | Study of Pollen ultra-morphology of some aquatic and semi-aquatic herbs from the North Bengal plains' (ref. no. 4367/R- 2015 dt. 23.12.2015) | University research Grant as Principal Investigator | 2016 1 YEAR (Completed) | 75000 |

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| 6. | <i>Study of Diversity, ethno-botany and palynological study of some wild palms and their conservation from terai and Darjeeling hills</i> Ref. No. 115/R-2018 (SF-14) dt. 08.01.2018 | University research Grant as Principal Investigator | 2018 1 YEAR (Completed) | 75000 |
| 7. | Upgradation of NBU herbarium [Ref. no. FO/235/99/FO-18 dt. 27.07.18] | University Grant DIF | 2018 (Completed) | 3,55,000 |

Ph.D Students:

| Sl. No. | Name of Scholars | Status | Title of Ph.D work |
|---------|-----------------------|--|---|
| 1. | Dr. Sujit Mondal | Awarded [15.09.2020] [UGC-BSR Fellowship] | Taxonomy, Phenology and ethnobotany of Palms in West Bengal |
| 2. | Dr. Payel Paul | Awarded [07.08.2020] [UGC-BSR Fellowship] | Systematic study of the family Polygonaceae of West Bengal |
| 3. | Dr. Debanshu Mallick | Awarded [30.05.2022] | Study on Diversity and Ecology of Vascular plants at Medicinal Plant Conservation Areas (MPCAs) in Terai & Duars, West Bengal |
| 4. | Mrs. Deepika Chettri | Registered under JRF-CSIR [Work progressing] | Ethno-botanical study of Tea Garden workers in Darjeeling hills, West Bengal India |
| 5. | Mrs. Roshni Chowdhury | Enrolled under JRF SVMCM (Swami Vivekananda Merit- Cum-Means Scholarship) [Work progressing] | Diversity, Distribution and Ecology of Vascular Epiphytes in Terai & Dooars of West Bengal, India |
| 6. | Aaratrik Pal | Registered under JRF-UGC [Work progressing] | Taxonomic and palynological study of some Linderniaceae from Eastern Himalaya and adjoining plains of India |
| 7. | Ms. Keya Modak | Enrolled under JRF SVMCM (Swami Vivekananda Merit- Cum-Means Scholarship) [Work progressing] | Systematic study of the members of family Oleaceae Hoffmanns. & Link from India |
| 8. | Dipayan Mitra | Enrolled | |

New Taxa Described:

- a. *Nymphaea abhayana* A. Chowdhury & M. Chowdhury *sp. nov.* (2016)
- b. *Calamus pseudoerectus* S. Mondal, S. K. Basu & M. Chowdhury *sp. nov.* (2019)
- c. *Daemonorops teraiensis* S. Mondal & M. Chowdhury, *sp. nov.* (2019)
- d. *Calamus mahanandensis* S. Mondal, S. K. Basu & M. Chowdhury *sp. nov.* (2020)
- e. *Torenia siliguriensis* A. Pal & M. Chowdhury *sp. nov.* (2021)
- f. *Bonnaya gracilis* A. Pal, Sardesai & M. Chowdhury *sp. nov.* (2021)
- g. *Torenia hookeri* A. Pal & M. Chowdhury *comb. nov.* (2022)

BOOKS:

1. Payel Paul, Sayantan Dhar, Dipayan Das and Dr. Monoranjan Chowdhury. 2020. **Herbarium Techniques: Evolution from Conventional to Digitization**. Orange Book Publication. Chattisgarh, India. pp-128.

BOOK CHAPTERS:

- **Chowdhury M & A. P. Das.** 2007. Folk Medicine Used by the *Rabha* Tribe in Coochbehar District of West Bengal: a preliminary Report. *In Advances in Ethnobotany*, ed. A.P. Das & A. K. Pandey, Bishen Singh Mahendra Pal Singh, Dehradun. 289 – 296.
- **Chowdhury M & A. P. Das.** 2011. Macrophytic diversity and community structure of *Adh soi* wetland of Maldah district of Paschimbanda, India. *Rect. stud. biodiv. Tread. Knowldg. Ed. C. Ghosh & A.P. Das. Gour. Mahavidhyalaya.* 109 – 115.
- *Maldah Jelar Jalabhumi o Jibo baichitra.* Maldah Charcha. Bangiya Prakasana, Kolkata

PUBLISHED RESEARCH ARTICLES:

- **Pal A & Chowdhury M. 2022.** *Torenia hookeri*, a new combination in Asian Linderniaceae and first record of in the Himalayan hotspot. *Phytotaxa*
- **Paul P, Dhar S, Das D, Chowdhury M, 2022.** Light and scanning electron microscopic characterization of pollen grains of some wetland angiosperms from India. *Microsc Res Tech.* doi: 10.1002/jemt.24118.
- **Paul, P & Chowdhury M. 2021.** Foliar micromorphology as a tool for identification of Indian taxa of Polygonaceae. *Journal of Asia-Pacific Biodiversity* 14(4). DOI:10.1016/j.japb.2021.05.008
- **Chowdhury R, Chowdhury A & Chowdhury M. 2021.** Taxonomic identity and Distributional record of *Syngonium podophyllum* Schot., in naturalized condition from India. *International Journal of Current Research* 13(4). DOI:10.24941/ijcr.41088.04.2021
- **Pal A & Chowdhury M. 2021.** *Torenia siliguriensis* (Linderniaceae), a New Species from India. *Annales Botanici Fennici* 58(4-6):237-241. DOI:10.5735/085.058.0407
- **Mondal S & Chowdhury M. 2021.** *Calamus arborescens* (Arecaceae): an addition to the flora of India from West Bengal. *Rheedea* 31(2). DOI:10.22244/rheedea.2021.31.02.08
- **Modak, K & Chowdhury, M. 2021.** Morphological study of *Nyctanthes arbor-tristis* L. fruit and seed in different growth stages. *Plant Science Today* 8(4):778-785. DOI:10.14719/pst.2021.8.4.1174
- **Mallick, D, Paul, P, Pal, A, Mondal, S, Chowdhury, M. 2021.** Diversity of Arboreal Spermatophytes in three MPCAs of India: With Special Reference to West Bengal. *Indian Forester* 147(12) DOI:10.36808/if/2021/v147i12/158451
- **Aaratrik Pal, Milind M. Sardesai, Monoranjan Chowdhury 2021.** Transfer of *Torenia gracilis* Benth. to *Bonnaya* as *Bonnaya gracilis* sp. nov. (Linderniaceae). *Nordic Journal of Botany* <https://doi.org/10.1111/njb.03292>
- **Dhar S, Paul P, Chowdhury. 2020.** Economically significant aquatic plants of Jalpaiguri District, West Bengal, India. *Ecobiotech* DOI:10.31163/2618-964X-2020-3-3-540-548.
- **Mondal S & Chowdhury M. 2020.** *Salacca secunda* Griff. (Arecaceae): A New Addition to the flora of West Bengal, India. *Plant Archives* 20(2):4564-4565. DOI:10.11609/jott.4493.11.5.13605-

- **Mondal S., Basu S. K., Chowdhury M 2020.** A new species of *Calamus* (Arecaceae) from Eastern Himalaya, India. *Turczaninowia*, 2020. Vol. 23(3): 92-98. URL: <http://turczaninowia.asu.ru/article/view/8561>
- **Paul, Payel and Chowdhury M 2020.** Pollen morphology of selected Indian species from subfamily Polygonoidae (Polygonaceae). *Biologia* (2020): 1 - 13. DOI:10.2478/s11756-020-00449-
- **Mondal, S and Chowdhury M 2019.** *Daemonorops teraiensis* (Arecaceae) A New Species from Terai of Darjeeling, India. *Plant Archives* 19 (S-2): 758-761.
- **Paul. P. and M Chowdhury 2019.** Diversity of members of Polygonaceae from West Bengal, India. *Plant Archives* 19(S2): 157 – 164.
- **Mondal, S., Basu, S. & Chowdhury, M 2019.** *Calamus pseudoerectus* (Arecaceae), a new species from the eastern Himalaya, India. *Journal of Threatened Taxa*, 11(5), 13605- 13610. <https://doi.org/10.11609/jott.4493.11.5.13605-13610>
- **Mondal, S. and Chowdhury, M 2018.** Rattans diversity in West Bengal, India. *Advances in Plant Sciences* 31(2): 159–165.
- **Chettri Deepika & Chowdhury, M 2018.** Ethnomedicinal approach against bone fracture among the tea garden workers of Darjeeling Hills. *Indian Journal of Traditional Knowledge*. 17(3): 512-517. <http://nopr.niscair.res.in/handle/123456789/44582>
- **Basak Mridushree, Somit Dutta & Chowdhury, M 2018.** Wild raspberry: Antioxidant fruits from Eastern Himalaya. *Journal of Food Bio-chemistry*. e12560. <https://doi.org/10.1111/jfbc.12560>
- **Mondal Sujit, Rajib Biswas, S. K. Basu & Chowdhury, M 2018.** *Areca triandra* Roxb. ex Buch.-Ham. (Arecaceae): New record for West Bengal, India. *Plant Archives* 18(2):1700-1702
- **Das D, P Paul, M Chowdhury & Mandal, P 2018.** Understanding the role of calcium elicitors and their cross-talk with hormones on growth form, biochemical and antioxidant attributes of *Drosera burmannii* Vahl under in-situ condition. *Biochem. Cell. Arch.* 18 (2):1661-1670.
- **Mondal, S & Chowdhury, M 2018.** Rattans diversity in West Bengal, India. *Advances in Plant Sciences*. 31(20): 159-165.
- **Chowdhury Roshni, A. Chowdhury & Chowdhury, M 2018.** Foliar micromorphological character studies on *Trichosanthes* L. (Cucurbitaceae) from Terai & Duars, West Bengal, India. *Annals of Plant Sciences*. 7(10):2435-2440.
- **Sarkar Baishakhi Mridushree Basak, M Chowdhury and A. P. Das 2018.** Importance of *Diplazium esculentum* (Retz.) SW. (Athyriaceae) on the lives of local ethnic communities in terai and duars of West Bengal - A report. *Plant Archives*. 18(1). 439- 442.
- **Basak Mridushree, Aparna Saha Sonar & Chowdhury, M 2017.** Phenetic study of some Indian Solanaceae based on foliar micromorphology, palynology and reproductive potentiality. *Plant Archives* 17(2): 1267-1273.
- **Mondal. Sujit, S. K. Basu & Chowdhury, M 2017.** Observation on *Nypa fruticans* Wurmb., the estuarine palm of Sundarbans its introduction in non-halophytic condition of North Bengal. *Phytotaxonomy*, 17: 39-42.
- **Paul Payel & Chowdhury M 2016.** *Persicaria chinensis* (Linnaeus) H. Gross var. *hispida* (Hooker f.) Kantachot (Polygonaceae): a new distributional record for West Bengal, India. *Asian J. Biol. Life Sci.* 5(3): 260-262.
- **Paul Payel, Mridushree Basak, Dibakar Choudhury, Chowdhury, M & A. P. Das 2016.** Study of foliar micro-morphology of eight species of *Persicaria* P. Miller (Polygonaceae) from India. *Pleione* 10(1): 14 - 22.
- **Chowdhury Anurag & Chowdhury, M 2016.** *Nymphaea abhayana* sp. nov. of Nymphaeaceae from Duars of West Bengal, India. *Indian Journal of Plant Sciences*. 5 (4): 57-60.
- **Mondal. Sujit, Basu S.K. & Chowdhury M 2016.** In vivo seed germination and seedling morphology of *Phoenix dactylifera* L. and *Phoenix sylvestris* (L.) Roxb. *NBU Journal of Plant Sciences* 10(1): 45-48.
- **Chowdhury Anurag, Satyajit Sarkar, A. Chowdhury, S. Bardhan, P. Mandal & Chowdhury, M 2016.** Tea Waste Management: A Case Study from West Bengal, India. *Indian Journal of Science and Technology*. 9(42): 1-6. DOI: 10.17485/ijst/2016/v9i42/89790

- Sarkar Satyajit, Anurag Chowdhury, S. Das, B. Chakraborty, P. Mandal & Chowdhury, M 2016.** Major tea processing practices in India. *International Journal of Bioassays*. 5(11): 5071-5083.
- Anurag Chowdhury, R. Biswas, M. Chowdhury & A.P. Das 2017.** *Carex phacota* Spreng. (Cyperaceae): A new record for West Bengal, India. *Journal of Economic & Taxonomic Botany*. 40(1-2):43-45.
- Debnath Dipanwita, Dibakar Choudhury, M Chowdhury & A. P. Das 2017.** Ethnobotany of Rajbanshi community in Duars of Jalpaiguri District, West Bengal, India: Traditional food. *Pleione* 11(1): 137-145.
- Mondal S, A Chowdhury, S. K. Basu & Chowdhury, M 2017.** Indigenous method of ‘Sugar Cake’ (Patali) production from *Borassus flabellifer* L. in West Bengal, India. *Plant Archives*. 17(1): 445-448.
- Sen Arijita, A Chowdhury, A. P. Das & Chowdhury, M 2016.** Diversity of weed communities in different major crop fields of Jalpaiguri district of West Bengal, India. *Pleione*. 6(2): 137-140.
- Sarkar Baishakhi, S Bera, M Chowdhury & A. P. Das 2016.** Variations in external and pollen morphological structures among four species of *Terminalia* L. (Combretaceae) from Terai-Dooars region of West Bengal, India. *Pleione*. 10(2): 344 – 350.
- Chowdhury. M, A Chowdhury & A. P. Das 2015.** Wetland flora of West Bengal: Lythraceae J. St.-Hilaire. *NBU Journal of Plant Science*. 9(1): 70-77.
- Chowdhury. M, A Chowdhury & A. P. Das 2015.** Notes on the aquatic ferns in West Bengal, India. *Pleione*. 9(1): 160 - 166.
- Chowdhury Anurag, M. Chowdhury & A. P. Das 2015.** *Potamogeton gramineus* L. (Potamogetonaceae): a new record for Indian sub-continent with a complete morphological description. *International Journal of Current Research*. 7(2): 12362- 12364.
- Chowdhury A, M. Chowdhury & A. P. Das 2015.** *Polygonum hastatosagittatum* Makino (Polygonaceae): a new distributional record for India. *Asian Journal Biological and Life Science*. 4 (1): 38-40.
- Chowdhury M 2015.** Plant diversity of Tilasan forest at Indo-Bangladesh boarder of West Bengal, india. *Specialty Journal of Agricultural Sciences* 1(2): 10 – 17.
- Chowdhury, M and B. Nandi 2014.** Avifauna in five wetlands of Diara and Barind region in Maldah district of West Bengal, India. *Journal of Threatened Taxa*. 6 (4):5660– 5666.
- Chowdhury, M 2014.** Preliminary screening of Medicinal plants growing in different habitats of Maldah district of West Bengal, India. *NBU Journal Plant Science*. 37 – 51.
- Chowdhury, M & A.P. Das 2014.** Plant diversity and community structure of Hazar Takia palustrine of central West Bengal, India. *NBU Journal of Plant Science*. 25 – 35.
- Chowdhury A, M. Chowdhury & A. P. Das 2013.** Transcontinental migration of Brazilian *Adenostemma suffruticosum* Gardner (Asteraceae) to India in the Northern Hemisphere. *Pleione* 7(1): 589 – 593.
- Chowdhury, M & A. P. Das 2013.** Present status of flora, fauna and vegetation structure in the wetlands of Maldah district of West Bengal, India. *NBU Journal of Plant Science*. 7(1): 29 – 34.
- Chowdhury A, M Chowdhury, D Chowdhury, A. P. Das & T. K. Paul 2013.** *Ludwigia peruviana* (Linnaeus) H. Hara (Onagraceae): a new record for West Bengal, India. *Pleione* 7(1): 286 – 289.
- Chowdhury M & A. P. Das 2013.** Notes on the distribution of *Hemarthria longiflora* (J. D. Hooker) A. Camus (Poaceae) in the Indian Subcontinent. *Ind. Jour. Appl. Res.* 3(5): 48 – 49
- Chowdhury M & A. P. Das 2012.** *Centratherum punctatum* Cassini ssp. *fruticosum* (Vidal) Kirkman (Asteraceae): record of a newly naturalized Species in India. *Bull. Bot. Soc. Beng.* 66(1): 69 – 71.
- Chowdhury M 2012.** Chokoth a traditional alcoholic drink of rabha tribe in India. *Life science leaflets*. 4: 54 – 59.
- Chowdhury M & R Mukherjee 2012.** Wild Edible Plants Consumed by Local Communities of Maldah District of West Bengal, India. *Indian Journal of Scientific Research*. 3(2) : 163 – 170.
- Chowdhury M, A Chowdhury, Apu Sikdar, A. P. Das & T.K. Paul 2011.** Occurrence of *Soliva anthemifolia* (A. Jussieu) R. Brown (Asteraceae) in Eastern India. *Pleione* 5(2): 352 – 356.
- Chowdhury M & A. P. Das 2011.** A note on the distribution and association of *Rosa clinophylla* Thory var *glabra* (Lindley ex Prain) C. Ghora & G. Panigrahi (Rosaceae) at the Maldah district of West Bengal,

India. *Pleione* 5(1): 196 – 197.

•**Chowdhury M & A. P. Das 2010.** Hydrophytes of different wetlands in the Maldah district of West Bengal, India. *Envir. Biol. Consr.* 15: 22 – 28

•**Chowdhury M & R. Mukherjee 2010.** Ethno-Medicinal Survey of Santal tribe of Malda District of West Bengal, India. *J. Econ. Taxon. Bot.* 34(3): 602-606.

•**Chowdhury M & A. P. Das 2009.** Inventory of some ethno – medicinal plants in wetlands areas in Maldah district of West Bengal. *Pleione* 3(1): 83 – 88.

SPECIAL LECTURE AND PAPER PRESENTED IN CONFERENCE, SYMPOSIUM, SEMINAR ATTENDED:

- Biodiversity: Need of Conservation. [**special lecture as keynote speaker**] National Webinar “A Tribute to Sundarlal Bahuguna on the Perspective of Present Environmental Scenario” Department of Botany, Malda College, 5th June, 2021.
- Aforestation : role of NSS Role of NSS & Practical field Experience. [**special lecture**] Surya Sen Mahavidyalaya
- Jal Shakti Campus National webinar on Jal Shakti Campus and Jal Shakti Gram: SDGs for Natural Resources during Covid-19 and Beyond NSS, [**special lecture**] Mayanaguri College.
- Pollen morphology of selected Indian species from subfamily Polygonoidae (Polygonaceae). International Conference on Algae, Fungi and Plants: Systematics to Application. CAS, Dept. of Botany, University of Calcutta. 25th January, 2020
- Monoranjan Chowdhury (2020). Pollen Morphology: Its importance to Plant Systematics. UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020. [**Lead Lecture**]
- Deepika Chettri and Monoranjan Chowdhury (2020). Ethnomedicinal approach against bone fracture among the tea garden workers of Darjeeling hills. UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.
- Monoranjan Chowdhury (2020). Pollen morphology of selected Indian species from subfamily Polygonoidae (Polygonaceae). UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.
- Sujit Mondal, S.K. Basu and Monoranjan Chowdhury (2020). Traditional and Commercial uses of Palms in West Bengal. UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.
- Aaratrik Pal and Monoranjan Chowdhury (2020). Role on medicinal plant gardens.
- UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.
- Paul Payel and Monoranjan Chowdhury (2020). Studies on Systematics of Rumex from West Bengal, India. UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.
- Modak Keya and Chowdhury Monoranjan (2020). Leaf architecture, indumentums study and ethno medicinal properties of some members of Oleaceae from West Bengal. Abstr. UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020
- Sarkar Satyajit and Monoranjan Chowdhury (2020). Green tea processing practices in North Bengal and its health benefits. Abstr. UGC sponsored National Seminar on ‘New Horizon in Botanical Research’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.

- International Botanical Congress. Convention & Exhibition Centre, Shenzhen, China. 23rd – 29th July, 2017. Aquatic and semi aquatic angiosperms diversity, palynology and their conservation from the wetlands of sub-Himalayan West Bengal, India.
- Paul Payel, Mridushree Basak, Dibakar Choudhury, Monoranjan Chowdhury & A. P. Das (2016). Study of foliar micro-morphology of eight species of *Persicaria* P. Miller (Polygonaceae) from West Bengal, India. Abstr. Inter. Conf. 'The Green Planet: Past, Present and Future' Organized by CAS, Department of Botany, University of Calcutta in collaboration with Probir Chatterjee Research Foundation and Botanical Survey of India. 21 – 23 December, 2016.
- Mondal, Sujit, Monoranjan Chowdhury and S.K. Basu (2016). Indigenous and Exotic Palm Diversity in West Bengal. Abstr. Inter. Conf. 'The Green Planet: Past, Present and Future' Organized by CAS, Department of Botany, University of Calcutta in collaboration with Probir Chatterjee Research Foundation and Botanical Survey of India. 21 – 23 December, 2016.
- Chowdhury, Monoranjan (2016). Sub-Himalayan Wetland Vascular Plant Diversity And Their Impact On Ecosystem & Human Society of Northern West Bengal, India. Abstr. Inter. Conf. 'The Green Planet: Past, Present and Future' Organized By CAS, Department Of Botany, University of Calcutta In Collaboration with Probir Chatterjee Research Foundation And Botanical Survey of India. 21 – 23 December, 2016.
- Chettri Deepika and Monoranjan Chowdhury (2016). Traditional practices followed by folk medicine practitioners of the tea gardens of Darjeeling Himalaya against bone fracture. Abstr. Inter. conf. 'The Green planet: Past, present and future' organized by CAS, department of botany, University of Calcutta in collaboration with Probir Chatterjee research foundation and botanical survey of India. 21 – 23 December, 2016.
- Basak Mridushree and Monoranjan Chowdhury (2016). Studies on foliar macro & micro-morphology of four species of *Rubus* Linnaeus (Rosaceae) from Darjeeling Himalaya, India. Abstr. Inter. Conf. 'The Green Planet: Past, Present and Future' Organized by CAS, Department of Botany, University of Calcutta in collaboration with Probir Chatterjee Research Foundation and Botanical Survey of India. 21 – 23 December, 2016.
- Chowdhury, Monoranjan (2015). Wetland biodiversity and its need of Conservation. 22nd WB state Science & Technology congress-2015. University of North Bengal. 28th Feb-1st Mar, 2015.
- Chowdhury, Monoranjan (2014). Wetland versus threats: a case study to wetlands of West Bengal. Abstr. National Symposium on Advances in Plant and Microbial Research. DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 12th & 13th December, 2014.
- Chowdhury, Monoranjan (2014). Biodiversity and its threats to Wetlands of West Bengal, India. Refresher Course in Life Sciences (Inter-disciplinary). Academic Staff College, NBU November 19th to 9th December, 2014, 22-23, 2013.
- Chowdhury, Monoranjan (2013). Assessment of floral composition and threats on wetlands of Malda district of West Bengal, India. Abstr. National Symposium on Recent Trends in Plant and Microbial Research. DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. March, 22-23, 2013.
- Chowdhury, Monoranjan & Das, A.P. (2011). Comparative study of plant diversity between natural and artificial wetlands of Maldah district of West Bengal. Abstr. U.G.C. Nat. Sem. The Explor. Protec, Conserv. Biodiv. Traditi. Knowled. Gour Mahavidyalaya. Malda, West Bengal.
- Chowdhury, Monoranjan & Das, A.P. (2010). Hydrophytes of different wetlands in the Maldah district of West Bengal, India. Abstr. Nat. Sem. Diver. Conser. Sust. Utiliz. Plan. Trad. Know. Easter. Himala. DRS Deptt. of Botany, Univ. of North Bengal, Darjeeling, West Bengal.
- Chowdhury, Monoranjan & Das, A.P. (2009). Socio-economical impact of Wetland areas in Maldah District of West Bengal, India. Abstr. Nat. Symp. Sust. Utiliz. Plan. Microb. Resour. DRS Deptt. of Botany, Univ. of North Bengal, Darjeeling, West Bengal.
- Chowdhury, M & Das, A.P. (2009). Plant diversity in wetlands of *Diara* region of Maldah District in West Bengal, India. *Abstr. Ann. Conf. IAAT & Intern. Symp. Angio. Syst. Phylog. Retro. Pros.* NBRI, Lucknow, Utter Pradesh.

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- Chowdhury, M & Das, A.P. (2006). Study of Vegetation structure of Barbilla Beel (Wetland) of Maldah district, West Bengal, India. *Abstr. U.G.C. Nat. Sem. Environ. & Sust. Devp.* Raiganj Univ. Coll. Uttar Dinajpur, West Bengal.
- Chowdhury, M and Das, A.P. (2006). Present Status & Sustainable use of wetlands of Maldah district of West Bengal, India. *Abstr. U.G.C. Nat. Sem. Environ. & Sust. Devp.* Raiganj Univ. Coll. Uttar Dinajpur, West Bengal.
- Chowdhury, M & Das, A.P. (2005). Invasive wetland macrophytes of an artificial deep water *Lacustrine* of Maldah district of West Bengal. *Abstr. Nat. Semn. Managemt. Urbn. Veget.* Deptt. Botany. Wilson College. Chowpatty, Mumbai, Maharashtra.
- Chowdhury, M & Das, A.P. (2004). Floristic exploration and domestic utility of ox-bow wetland situated at the heart of Malda township in West Bengal, India. *Abstr. Ann. Conf. IAAT & Intern. Semn. Plan. Taxo. Biod. Cons.* TBGRI, Thirubananthapuram, Kerala.
- Chowdhury, M & Das, A. P. (2003). Wetland flora of Malda district in West Bengal, India. *Abstr. Ann. Conf. of IAAT & Intern. Symp. Plan. Taxo. Adv. & Relev.* Deptt. Botany, T. M. Bhagalpur University, Bhagalpur, Bihar.

CONFERENCE, SEMINAR, RC PROGRAM CONDUCTED

- **Joint Convener RC-UGC-HRDC: New Frontiers of Advancement in Natural and Biological Sciences, September 10, 2021 to September 23, 2021.**
- **Joint Convener RC-UGC-HRDC: Life Sciences (Inter-disciplinary), March 03, 2021 to March 16, 2021.**
- **Chairman:** Two Days National Seminar (Online Mode) on Advancement of Plant Sciences for Food Diversity and Nutritional Security. 30th September and 1st October, 2021.
- **Organizing Secretary:** Workshop on Plant and Wildlife Photography
- **Joint Convener:** National Symposium *on Advances in Plant and Microbial Research.* DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 12th & 13th December, 2014.

CONFERENCE, SYMPOSIUM, SEMINAR ATTENDED:

- UGC sponsored National Seminar on ‘*New Horizon in Botanical Research*’ DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 20th & 21th February, 2020.
- Poster Presentation Award in ‘*International Conference on Algae, Fungi and Plants: Systematics to Application (AFPSA-2020)*’ Organized by CAS, Department of Botany, University of Calcutta in collaboration with Botanical Survey of India. *Celebrating 100th Anniversary of Calcutta University Herbarium (CUH)*, on 24 & 25th January, 2020.
- National Symposium and annual meeting of EHSST on “Himalayan plant diversity: taxonomy, Conservation and Utilization. BSI-Shillong, Meghalaya. 8th-9th March, 2018.
- XVII Annual Conference of IAAT & International Symposium on “Plant Systematics: Priorities and Challenges. Department of Botany, Delhi University. 10th-12th November, 2017. Ultra-morphological study of Pollen grains of some aquatic and semi-aquatic plants, India.
- International Botanical Congress. Convention & Exhibition Centre, Shenzhen, China. 23rd – 29th July, 2017. Aquatic and semi aquatic angiosperms diversity, palynology and their conservation from the wetlands of sub-Himalayan West Bengal, India.
- International Conference on ‘The Green Planet: Past, Present and Future’ Organized by CAS, Department of Botany, University of Calcutta in collaboration with Probir Chatterjee Research Foundation and Botanical Survey of India. 21 – 23 December, 2016.
- 22nd WB state Science & Technology congress-2015. University of North Bengal. 28th Feb-1st Mar,

2015

- National Symposium on *Advances in Plant and Microbial Research*. DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. 12th & 13th December, 2014.
- National Symposium on *Current Perspective in Stress Biology*. Department of Botany, University of North Bengal, Darjeeling, West Bengal. February 6 – 8, 2004.
- National Symposium on *Recent Trends in Plant and Microbial Research*. DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. March, 22- 23, 2013.
- Refresher Course in Life Sciences (Inter-disciplinary). Academic Staff College, NBU November 19th to 9th December, 2014, 22-23, 2013.
- U.G.C & ICSSR sponsored National conference on Political Economy, Nation, Development and Environment a Historical Perspective of India between 1707-1960. Post-Graduate Department of History, Malda College, Malda, West Bengal. January 16 – 17, 2010.
- WBSCHE & NAAC sponsored Workshop on Accreditation / Re-accreditation of Colleges. Gour Mahavidyalaya, Malda, West Bengal. 30th January, 2010.
- National Symposium on Sustainable Utilization of Plant & Microbial Resources. DRS Department of Botany, University of North Bengal, Darjeeling, West Bengal. February 28-March 1, 2009.
- National seminar on Exploitation of biological resources and application of eco- friendly cultural practices for sustainable crop production. Department of Botany, Siliguri College & Siliguri Horticulture Society, Darjeeling, West Bengal. February 21 – 22, 2009
- U.G.C. National Seminar on the Exploration, Protection and Conservation Biodiversity and Traditional Knowledge. Gour Mahavidyalaya. Malda, West Bengal.
- U.G.C. sponsored National Seminar on Environment & Sustainable Development.
- Raiganj University College, Uttar Dinajpur, West Bengal. November, 10-11, 2006.
- UGC sponsored Orientation program by UGC-Academic Staff College. Jadavpur University, Kolkata. 16 November- 14 December, 2009.
- XIX Annual Conference of IAAT & International Symposium on Angiosperm Systematics and Phylogeny: Retrospect & Prospects. NBRI, Lucknow, Uttar Pradesh. November, 12 – 14, 2009.
- UGC Sponsored State Conference on Higher Education & Employability. Malda College, West Bengal. November 15th -16th, 2008
- NMPB sponsored workshop on Cultivation of Medicinal Plants. Department of Botany, University of North Bengal. Darjeeling, West Bengal. June, 24 -25, 2005.
- XIV Annual Conference of IAAT & International Seminar: New Frontiers in Plant taxonomy and Biodiversity Conservation. TBGRI, Thirubananthapuram, Kerala. December 29-31, 2004.
- XIII Annual Conference of IAAT & International Symposium on Plant Taxonomy: Advance & Relevant. Department of Botany, T. M. Bhagalpur University, Bhagalpur, Bihar. November 14 – 15, 2003.

