



## **Dr. Tanmay Chowdhury**

**Govt. Approved PTT**

**Academic Qualifications:** M.Sc., Ph.D.

**Ph.D.** University of North Bengal, Darjeeling, India.

**Master of Science (M.Sc.)** CSR&TI, Mysore University, India.

**Bachelor of Science (B.Sc.)** University of North Bengal, Darjeeling, India.

### **Contact Address**

Department of Sericulture

Raiganj University

University road, Raiganj

Uttar Dinajpur, West Bengal- 733134

Email: [tanmay000@gmail.com](mailto:tanmay000@gmail.com)

Phone number: +919475989904 / 8918474602

### **Research Interest**

Mulberry breeding and genetics, plant molecular biology, Plant tissue culture, Cryopreservation and mulberry pathology, Identification of medicinal and aromatic plants and their conservation techniques.

### **Specialization**

Mulberry Production.

### **Fellowships**

- Worked as a **SRF** in DBT funded project on “Conservation of mulberry germplasm using biotechnological approaches of *in vitro* culture of cryopreservation for sustainable use” at NBPGR, New Delhi from 03/04/2006 to 30/08/2006.
- Worked as a **Project Scientist** in the DST funded project on Survey and documentation of status, habitat and local uses of Medicinal and Aromatic Plants of Malda, Uttar & Dakshin Dinajpur districts of West Bengal from 01/12/2009 to 27/03/2012.

### **Teaching Experience**

- As a part time Lecturer of Raiganj College (University College) in the Dept. of Sericulture for degree classes since 26<sup>th</sup> October, 2006 to till date.
- As a contractual Teacher of Ganguria High School in Vocational Agriculture (10+2) since 2<sup>nd</sup> August, 2007 to 30<sup>th</sup> November, 2009.

### Research Experience

- Worked as a **SRF** in DBT funded project on “Conservation of mulberry germplasm using biotechnological approaches of *in vitro* culture of cryopreservation for sustainable use” at NBPGR, New Delhi from 03/04/2006 to 30/08/2006.
- Worked as a **Project Scientist** in the DST funded project on Survey and documentation of status, habitat and local uses of Medicinal and Aromatic Plant of Malda, Uttar & Dakshin Dinajpur districts of West Bengal from 01/12/2009 to 27/03/2012.

### Previous & Present Employment

Presently working as Govt. Approved PTT in the Department of Sericulture, Raiganj University.

### Memberships of the Societies

- ❖ Member of British Ecological Society

### Administrative Experiences

- Working as Boys’ Hostel Superintendent since 2<sup>nd</sup> December, 2013 to till date.
- Secretary, AASM garden, Raiganj University from 29.11.2017 to till date.
- Member of the Student’ Welfare Board.
- Member of Anti Ragging Squad.
- Invite member of Prof. Asim Kumar Bothra Environment Conservation Centre (PAKBECC), Raiganj University.
- Invite member of Hostel Monitoring Committee.
- Editor (Scientific & Souvenir) of the National Seminar on Emerging Areas of Sericulture: Issues, Challenges and Industrial Application for Sustainable Development and Eco-Restoration held on 30<sup>th</sup> – 31<sup>st</sup> Jan., 2018 at Raiganj University, Raiganj, India.
- Member of the Examination Committee, Raiganj University, 2018-2019.
- Former Member, UG Board of Studies of Sericulture, Raiganj University.
- Former Member, PG Board of Studies of Sericulture, Raiganj University

### Publications

**Books: 02, Book Chapter: 03, Research Papers: 10**

## LIST OF PUBLICATIONS

### Books

| Title of the books                                                                                  | Year of Publication | ISBN                    | Author/Authors                                       | Publishers                                |
|-----------------------------------------------------------------------------------------------------|---------------------|-------------------------|------------------------------------------------------|-------------------------------------------|
| A Hand Book on Floral Diversity of Medicinal and Aromatic Plants at AASM Garden, Raiganj University | 2021                | ISBN-978-81-8465-358-8  | Dr. Tanmay Chowdhury                                 | The Registrar, Raiganj University &       |
| Biodiversity and medicinal plants of West Dinajpur and Malda (Vol. 1).                              | 2011                | ISBN: 978-81-946172-1-1 | Dilip De Sarker, Tanmay Chowdhury, Manas Ranjan Saha | TIC, Raiganj College (University College) |

### Book Chapter

- ❖ **Chowdhury T**, Alam K, Saha S (2020). The genus *Ocimum*: a review of systematic position, taxonomic revision, genetics, cytogenetics and metabolic diversity. In (Eds: Merlin Blanchard) *Ocimum: An Overview*. Nova Science Publishers, Inc. New York. pp-1-46.
- ❖ **Chowdhury T**, Roy SC, De Sarker D (2019). Ethnobotanical study of Dakshin Dinajpur district of West Bengal. In (Eds: José L. Martinez, Amner Munoz-Acevedo & Mahendra Rai) *Ethnobotany: Local Knowledge and Traditions*. CRC Press, New Delhi, India. pp-132-157.
- ❖ **Chowdhury T**, Saha MR, Sarker DD (2011) Survey of plants used for the treatment of diabetes in Dinajpur (Uttar & Dakshin) and Malda Districts of Paschim Banga. In (Ed. Ghosh C and Das AP) *Recent studies in biodiversity and traditional knowledge in India*. Gour Mahavidyalaya, Malda, pp-295-299.

### International/National research papers

- **Chowdhury T**, Basak GK, Deepalakshmi PD, Saha S, Mandal A (2021). Metabolomics using Gas chromatography-mass spectrometry and antibacterial activity of nine *Ocimum* taxa of Dakshin Dinajpur district, West Bengal, India. *Journal of Applied and Natural Science*. 13(1):127-136. DOI: 10.31018/jans.v13i1.2508.
- Basak GK, **Chowdhury T**, Chakraborty S, Karmakar A, Mandal A (2021). Phytochemical and antimicrobial activity of the leaves of *Croton bonplandianum* Bail. *Journal of Advanced Scientific Research*. 12 (1), 53-56.
- Mandal A, Basak GK, Karmakar A, **Chowdhury T**, Chakraborty S, Biswas R, Ghosh P (2019). Isolation of octacosane-10-ol-21-ene from *Thuja occidentalis* L cone and its antibacterial activity. *International Journal of Green and Herbal Chemistry*. 8(2):076-072.
- Alam K, Bhattacharyay D, **Chowdhury T**, Saha S, Kar PK (2018). Biodiversity status and

conservational requirements of tropical Tasar (*Antheraea mylitta* D.) -A review. *Ecology, Environment and Conservation*. 24(4):1887-1894.

- Ghosh A, Gangopadhyay D, **Chowdhury T** (2017). Economical and environmental importance of mulberry: A review. *International Journal of Plants and Environment*. 3:51-58.
- **Chowdhury T**, Mandal A, Roy SC, De Sarker D (2017). Diversity of the genus *Ocimum* (Lamiaceae) through morpho-molecular (RAPD) and chemical (GC-MS) analysis. *Journal of Genetic Engineering and Biotechnology*. 15:275-286. (**Elsevier**, IF: 1.13). DOI: 10.1016/j.jgeb.2016.12.004.
- **Chowdhury T**, Mandal A, Jana AK, Roy SC, De Sarker D (2016). Study of phyto-sociology and ecology of naturally growing *Ocimum* species with their conservational strategies in Dakshin Dinajpur district of West Bengal. *Acta Ecologica Sinica*, **36**: 483-491. (**Elsevier**, IF: 1.07). DOI: 10.1016/j.chnaes.2016.08.003.
- **Chowdhury T** (2016). Evaluation of different bivoltine pure silkworm breed for cocoon and associated parameters under Uttar Dinajpur agro climatic conditions west Bengal, India. *International Journal of Experimental Research and Review*. 8, 92-97.
- **Chowdhury T**, Roy SC, Sarker DD (2014). Wild edible plants of Uttar Dinajpur district, West Bengal. *Life Sciences Leaflets*. 47:20-36. (IF: 0.9285).
- **Chowdhury T**, Sarker DD, Roy SC (2014). Local folk use of plants in Dakshin Dinajpur district of West Bengal, India. *International Research Journal of Biological Science*. 3: 67-79. (IF: 0.676).

#### Workshops/ Training received

- Intensive training on Mulberry Sericulture w.e.f. 27/05/2019 to 10/06/2019 at Central Sericultural Research & Training Institution (CSR&TI), Behampore, West Bengal.
- Workshop on Bioresource Utilization under the DBT funded project Establishment of rural bioresource complex in North Bengal. Organized by North Bengal University Unit in collaboration with Raiganj Surendranath Mahavidyalaya, Raiganj, Uttar Dinajpur on 6-7th August, 2016.
- Workshop on Statistical method organized by Department of Economics, Raiganj College (University College) on 16-23th March, 2011.
- Seminar cum workshop on Bioinformatics, Department of Botany, Bioinformatics facilities, North Bengal University on 15-17th, January, 2010

#### Conference/ Seminar/ Organisation

| Title of the Paper presented | Title of Conference / Seminar | Organised by | International/National/State/Regional/University/College level |
|------------------------------|-------------------------------|--------------|----------------------------------------------------------------|
|------------------------------|-------------------------------|--------------|----------------------------------------------------------------|

|                                                                                                                                 |                                                                                                                                          |                                                                                                                                                             |               |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Assessment of genetic diversity of <i>Ocimum</i> sp.                                                                            | National Seminar on New Horizon in Botanical Research                                                                                    | Department of Botany, University of North Bengal on 20-21 <sup>st</sup> February, 2020                                                                      | National      |
| Performance of cocoon parameters of some pure bivoltine silkworm breeds under Raiganj Bolck, Uttar Dinajpur, West Bengal.       | National symposium on Foundation and Advances in Research Methods & Computing (NSFARAC 2019)                                             | PG & Research Selection (Information Sciences), Department of Computer and Information Science (DCIS), Raiganj University on 13-14 <sup>th</sup> May, 2019  | National      |
| Anti microbial effects of <i>Ocimum</i> species.                                                                                | National Seminar on Frontiers in Cell Biology and Microbiology                                                                           | Department of Microbiology, Raiganj University on 31 <sup>st</sup> March, 2017                                                                              | National      |
| Antimicrobial activity of <i>Ocimum</i> species of Dakshin Dinajpur district.                                                   | National seminar on Man and microbes                                                                                                     | Department of Microbiology, Raiganj University on 28-29 <sup>th</sup> March, 2016                                                                           | National      |
| A novel study on diversity of Basil (Tulsi) in Dakshin Dinajpur district of West Bengal.                                        | One day international seminar on Exploring chemistry for the development of North Bengal                                                 | Department of Chemistry, Raiganj University on 19 <sup>th</sup> March, 2016                                                                                 | International |
| Indigenous herbal remedies against rheumatism in Dakshin Dinajpur district of West Bengal.                                      | National seminar on Current trends in plant and microbial research                                                                       | Department of Botany, Raiganj University on 16 - 17 <sup>th</sup> March, 2016                                                                               | National      |
| Role of Department of Sericulture to uplift of the rural socio-economic conditions of the district Uttar Dinajpur, West Bengal. | International conference on Raiganj University: Challenges and opportunities                                                             | Raiganj University on 14-16 <sup>th</sup> March, 2016                                                                                                       | International |
| <i>Ocimum</i> . A good source of minerals and vitamins                                                                          | National conference on Environmental Issues and Food Security in India                                                                   | Foundation for Science and Environment, Kolkata in association with Scientific & Environmental Research Institute, Kolkata on 10 <sup>th</sup> August, 2014 | National      |
| Survey of plants used for the treatment of diabetes in Dinajpur (Uttar & Dakshin) and Malda Districts of Paschim Banga.         | National Seminar on the exploration, protection and conservation of biodiversity and traditional knowledge                               | Department of Botany, Gour Mahavidyalaya, Malda and Paschim Banga Vigyan Mancha, Malda District committee, West Bengal on 4-5 <sup>th</sup> February, 2011  | National      |
| Conservation of some threatened plants of Uttar and dakshin Dinajpur district, West Bengal.                                     | National seminar on Biodiversity and sustainable development and sesquicentennial birth-year celebration of Acharya Prafulla Chandra Ray | Raiganj College (University College) on 10-11 <sup>th</sup> January 2011                                                                                    | National      |

|                                                                                                                      |                                                                                                                                |                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethnobotanical study of Rajbangshi community in Raiganj Block, Uttar Dinajpur, West Bengal.                          | UGC sponsor national seminar on “Modern Ethnobotany: Its concepts and relevances                                               | Department of Botany, National Garhbeta College, Paschim Medinapur on 8-9th November 2011                                                                                                                                         |
| The germplasm collection at Raiganj College (University College) of medicinal plants garden.                         | National seminar on Diversity conservation and sustainable utilization of plants and traditional knowledge of Eastern Himalaya | Department of Botany, National North Bengal University on 14-16th December, 2010                                                                                                                                                  |
| Survey and documentation of medicinal plants used by the tribal people of Balurghat Subdivision, West Bengal, India. | Convention 2010 Botanicals in integrated health care                                                                           | The Agri-Horticultural International Society of India. In association with National Medicinal Plants Board AYUSH, Govt. of India, Botanical Survey of India and Nationalistic Doctors Forum on 26-28 <sup>th</sup> December, 2010 |