

Dr. SUBRATA CHAKRABORTY

Associate Professor

M.Sc. (Botany); Ph.D. [(Science) in Botany]

Overview:

Myself Dr. Subrata Chakraborty, after accomplishing doctoral research from the cell biology & plant biotechnology unit under the canopy of centre of advanced studies in cell and chromosome research of the Calcutta University College of Science, joined at the department of Botany, T.D.B. College, Raniganj, as a Lecturer in the March, 2005. After that I had held the positions of a Senior Lecturer, Assistant Professor Stage 2, Stage 3 and presently holding the post of an Associate Professor. I had been serving this college as a faculty member of the department of Botany since last more than fifteen years. I have been teaching my students diverse areas of Botany such as Mycology, Plant Anatomy, Fossil Gymnosperms, Parts of Biochemistry, Microbial Genetics and Cell Biology, Genetics & Molecular Biology with commendable initiative as well as with a view to give them a flavour of the subject of Plant Science. Besides teaching I have been involved in diverse working areas of college including administration.

Date of appointment to the present job: 23rd March, 2005

Other Academic/ Administrative post:

1. Coordinator of the department of Nutrition (since July' 2016 to July' 2018).
2. Convener of the department of Environmental Studies (since January' 2017 to January' 2019).
3. Teachers' Representative Member of the Governing Body (since September' 2017 to 2021).
4. Convener of the Environmental Awareness Committee (since January' 2018).
5. Convener of the Tender and Purchase Committee (since January' 2018)

Academic background:

1. Attained a good honours degree in Botany from Krishnagar Govt. College (then affiliated to the University of Calcutta).
2. Attained postgraduate degree in Botany (specialization – Cytogenetics) from Darjeeling Govt. College (affiliated to the University of North Bengal) with first class second rank and distinction. Won a silver medal for this rank in M.Sc. final examination.
3. Qualified in GATE' 1993 and SLET' 2002 (duly accredited by the UGC and conducted by the West Bengal College Service Commission).
4. Achieved UGC Ph.D. fellowship of the University of Calcutta and carried on doctoral research in the cell biology & plant biotechnology unit, CAS, department of Botany, Calcutta University College of Science. Worked with keen interest in the field of plant tissue culture and screening of the yield of secondary metabolites in cultured tissues along with the varied biochemical parameters during *in vitro* growth and morphogenesis.

Information about M Phil/Ph D etc.:

- Ph.D. Topic:** "Tissue culture of some economically important plants with a view to their improvement and their biochemical studies to note some changes during differentiation / culture".

Publications:

- Chakraborty S. 2016. Protoplast Culture and Somatic Hybridization, a Promising Frontier of Plant Biotechnology. *J. Arts, Science & Teaching (JAST)*, ISSN 2395-4353. 2 (1) : 46-54.
- Chakraborty S. 2011. Tissue culture of *Solanum laciniatum* Ait., an elite exotic medicinal species with a view to produce secondary metabolite. *Proceedings of UGC sponsored national seminar on biotechnological approach to improve medicinal plants (organized by Dept. of Botany, Asansol Girls' College in collaboration with Dept. of Biotechnology, Burdwan University)*. 162-174.
- Chakraborty S., and Roy S.C. 2006. Micropropagation of *Cyphomandra betacea* (Cav.) Sendt., a potential Horticultural and Medicinal Plant by Axillary Bud Multiplication. *Phytomorphology*, ISSN 0031-9449. 56 (1 & 2) : 29-33.

- ❑ Chakraborty S., and Roy S.C. 2001. Tissue specific expression of isozymes used as biochemical markers in different stages of *in vitro* growth of *Solanum laciniatum* Ait. *Cell and Chromosome Research*, ISSN 0254-2935. 22 (1 & 2) : 9-16.

Books and Chapters:

- ❑ *ARTICLE IN BOOKS*: Chakraborty S., (2016) Aksharmita., " Jibabidyar Tinte Jugantokari Udvaban", ISBN 978-93-84496-07-4. (pp# 118-121). Publisher - Dibaratrir Kabya, Kolkata, WB., India.

Seminars, Webinars and Conferences attended:

- ❑ Chakraborty S. *Webinar entitled "Living on the Edge with COVID-19."* Participation at Triveni Devi Bhalotia College, Raniganj, WB. June 4, 2020.
- ❑ Chakraborty S. " *National Seminar (sponsored by UGC and DST, Govt. of India) on Medicinal Plants*". Oral presentation of a paper entitled – High frequency micropropagation of tree tomato [*Cyphomandra betacea* (Cav.) Sendt.] : an exotic medicinal and horticultural species, with a view to its *ex situ* conservation. Held at department of Botany & Forestry, Vidyasagar University, WB., India. February 16 - 17, 2016.
- ❑ Chakraborty S. " *XVII All India Congress of Cytology & Genetics and International Symposium (sponsored by CSIR, ICMR & DST, Govt. of India) on Exploring Genomes : The New Frontier*". Presented an invited lecture entitled – Tissue specific expression of isozymes used as genetic markers to study different stages of *in vitro* growth and development of *Solanum laciniatum* Ait., an exotic medicinal plant. Held at IICB, Kolkata, WB., India. December 22-24, 2015.
- ❑ Chakraborty S. " *National Seminar (sponsored by UGC) on Contemporary Progress in Plant Sciences*". Oral presentation of a paper entitled – High frequency micropropagation of *Solanum laciniatum* Ait., through somatic embryogenesis. Held at CAS, department of Botany, University of Burdwan, WB., India. March 20 – 21, 2015.
- ❑ Chakraborty S. " *International Symposium (sponsored by UGC & DST-PURSE) on Trends in Plant Science Research*". Presentation of a poster paper entitled - Micropropagation of two elite Solanaceous species with immense horticultural and medicinal potentialities. Held at department of Botany, University of Calcutta, WB., India. February 15-16, 2014.
- ❑ Chakraborty S. " *National level conference (sponsored by UGC, CSIR & DST, Govt of WB.) on Biodiversity : Threats and conservation through traditional & biotechnological approaches*". Oral presentation of a paper entitled – Biotechnological approach for *ex situ* conservation of *Cyphomandra betacea* (Cav.) Sendt., an elite exotic species with immense horticultural and medicinal potentialities. Held at department of Botany, Dum Dum Motijheel college, WB., India. February 4-6, 2012.
- ❑ Chakraborty S. " *National Seminar (UGC sponsored) on Biotechnological Approach to Improve Medicinal Plants*". Oral presentation of a paper entitled – Tissue culture of *Solanum laciniatum* Ait., an elite exotic medicinal species with a view to produce secondary metabolite. Held at Asansol Girls' College, WB., India. January 21-22, 2011.

Life Membership:

Life member of the "All India Congress of Cytology and Genetics (AICCG)" [Regd. No. S/48604] since 18.09.15.

Awards:

- ❑ Awarded a **silver medal for first class second rank** in M.Sc. examination of the University of North Bengal, 1991.
- ❑ Recipient of **ISCA Young Scientists' Award–2000 (Section – Botany)** in the 87th Indian Science Congress held at Pune University.