



# BARASAT GOVERNMENT COLLEGE

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## TEACHER'S PROFILE

**DR RITUPARNA KUNDU CHAUDHURI, DEPARTMENT OF BOTANY**

- **DESIGNATION** : Assistant Professor (Stage2)
- **QUALIFICATION** : M.Sc., Ph.D.
- **DATE OF JOINING THE SERVICE** : Dec 22, 2008
- **DATE OF JOINING THE INSTITUTION** : Sep 15, 2021
- **ADDRESS FOR COMMUNICATION** : Satyam Sivam Sundaram Complex, 35 Jessore Road, Kolkata 700028
- **PHONE NO** : 6290189622
- **EMAIL ADDRESS** : rkc2821@gmail.com
- **SPECIALIZATION** : Plant Physiology, Biochemistry and Molecular biology, Plant Biotechnology
- **TEACHING EXPERIENCE** : PG and UG teaching for 6 years at Bethune College, then on transfer to Krishnagar Govt. College taught for 6 years 9 months at UG level. Presently teaching UG and PG at Barasat Govt. College.
- **COLLEGE SERVED** : (1) Bethune College-22.12.2008 to 3.01.2015  
(2) Krishnagar Govt. College-05.01.2015 to 14.09.2021  
(3) Barasat Govt. College-15.09.2021 till date

➤ <b>ACADEMIC AND ADMINISTRATIVE EXPERIENCE</b>	: Teaching PG in Botany for 6years and UG teaching experience for 12 years 11 months, served in UGC committee, Admission and Academic Journal, Departmental purchase and Examination committee along with staff club and cultural activity committee
➤ <b>TOPICS TAUGHT</b>	: Plant Physiology,Biochemistry and Molecular Biology, Plant Biotechnology, Algae, Bryophyta, Plant Pathology, Embryology
➤ <b>AREA OF RESEARCH &amp; INTEREST</b>	: Plant Biotechnology and Physiology, including micropropagation of medicinal and crop plants, secondary metabolite analysis,Agrobacterium mediated transformation, analysis of molecular data generated through plant-fungal interaction.
➤ <b>ONGOING PROJECT DETAILS</b>	: NONE
➤ <b>AWARD RECEIVED</b>	: NONE
➤ <b>PATENT DETAILS</b>	: NONE
➤ <b>EXTRACURRICULAR ACTIVITIES</b>	: Keeps an ardent fascination for Rabindrasangeet and literature. Loves to sing Rabindrasangeet and member of a local singing group.
➤ <b>CAREER PROFILE</b>	: Completed Graduation from Scottish Church College, under University of Calcutte in the year 1999 with first class. Passed M.Sc. in Botany from Calcutta University in the year 2001 and ranked 3rd.Special paper was Plant Physiology, Biochemistry and Molecular Biology. Cleared GATE in 2001 and subsequently awarded NET (LS and CSIR) twice in 2003 and 2004. Carried out Ph.D work on plant Biotechnology on medicinal plant as CSIR fellow and published papers in International and National journals.Carried out part of research work on secondary metabolites from INRA, an agricultural University of France, Versailles in 2008.Awarded Ph.D in 2009. Appointed as Assistant Professor in Bethune College 2008, December. Since then involved in many collaborative publications on Plant Biotechnology of medicinal and crop plants and Plant Pathogen interaction.
➤ <b>ACADEMIC LINK</b>	: <a href="https://www.researchgate.net/profile/Rituparna-Kundu-Chaudhuri-2">https://www.researchgate.net/profile/Rituparna-Kundu-Chaudhuri-2</a>

# PUBLICATION

## JOURNAL PUBLICATION :

- (1) Purohit A, Ghosh S, Ganguly S, Singh M, Tripathi SB, Chaudhuri R K, Chakraborti D, 'Comparative transcriptomic profiling of susceptible and resistant cultivars of pigeonpea demonstrates early molecular responses during *Fusarium udum* infection', Scientific Reports, Nature portfolio, Springer Nature London N1, UK,, 44501, 2045-2322
- (2) Naskar S, Roy C, Ghosh S, Mukhopadhyay A, Hazarika L K, Chaudhuri R K, Roy S, Chakraborti D, 'Elicitation of biomolecules as host defense arsenals during insect attacks on tea plants (*Camellia sinensis* (L.) Kuntze)', Applied Microbiology and Biotechnology, Springer Nature Switzerland, AG,, October, 2021, 1432-0614
- (3) Chaudhuri R K and Chakraborti D, 'Bioactive Compounds from In-Vitro Culture of *Swertia Chirayita* (Roxb. Ex Flem.) Karsten: Identification and Quantification', Plant Based Functional Foods and Phytochemicals: From Traditional Knowledge to Present Innovation, Apple Academic Press, 1265 Golden Circle NE Palm Bay Florida, USA, September, 2020, ISBN No. 978100 3055419
- (4) Ganguly S, Ghosh G, Ghosh S, Chaudhuri RK, Das S, Chakraborti D, 'Plumular meristem transformation system for chickpea: an efficient method to overcome recalcitrant tissue culture responses', Plant Cell Tissue Organ Culture, Springer Nature Switzerland AG, 44075, 1573-5044
- (5) Ganguly S, Purohit A, Das S, Chakraborti D, 'Embryonic Explant and Plumular Meristem Transformation Methods for Development of Transgenic Pigeon Pea', Legume Genomics, Methods in Molecular Biology, Springer Nature, Hunan, New York, January 2020,, 1940-6029
- (6) Ghosh G, Ganguly S, Purohit A, Chaudhuri RK, Das S, Chakraborti D, 'Development of transgenic pigeonpea using high throughput plumular meristem transformation method', Plant Cell Reports, Springer Nature Switzerland, AG, 42917, 1432-203X
- (7) Purohit A, Ganguly S, Ghosh G, Datta S, Chaudhuri RK, Chakraborti D, 'Variability among isolates of *Fusarium udum* and the effect on progression of wilt in pigeonpea', European Journal of Plant Pathology, Springer Nature Switzerland AG, 42767, 1573-8469
- (8) Chaudhuri RK, Pal A, Jha TB, 'Regeneration and characterization of *Swertia chirata* Buch.-Ham. ex Wall. plants from immature seed cultures', Scientia Horticulturae, Elsevier Publication, 39873, 0304-5474
- (9) Chaudhuri RK, Pal A, Jha TB, 'Conservation of *Swertia chirata* through direct shoot multiplication from leaf explants', Plant Biotechnology Reports, Springer Nature Switzerland, AG, August, 2008, 1863-5474
- (10) Chaudhuri RK, Pal A, Jha TB, 'Production of genetically uniform plants from nodal explants of *Swertia chirata* Buch. Ham. ex Wall.—an endangered medicinal herb', IN VITRO CELL DEV-PL, Springer Nature Switzerland AG, 39387, 1475-2689



**BOOK PUBLICATION**

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