

Faculty Member's Academic Profile

Dr. Srijonee Choudhury,

Designation: Assistant Professor in BOTANY (W.B.E.S.)

Rani Indira Devi Government Girls' College, Jhargram

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Educational Qualifications

1. Certificate course on IPR from MAKAUT, 2024
2. Ph.D in Botany from University of Kalyani (Thesis: "Screening of diatoms as estuarine fish food and their role as flavour enhancers in some selected fish species of Indian Sundarbans").
3. M.Sc in Botany (2013-2015) with specialization in Plant Physiology, Biochemistry, and Molecular Biology from University of Kalyani (77.93%, CGPA 8.38).
4. B.Sc in Botany (2010-2013) from University of Kalyani (70.5%).
5. Higher Secondary from Springdale High School, WBCHSE (2010) 72.2%.
6. Madhyamik from Springdale High School, WBBSE (2008) 82.2%.

Examinations Qualified

1. GATE 2016 with AIR 343.
2. CSIR-UGC NET LS December 2016 with AIR 25.
3. CSIR-UGC NET JRF June 2017 with AIR 35.

Areas of Interest & Specialization

- Specialization: Plant Physiology, Biochemistry, and Molecular Biology.
- Research Interests: Diatoms, Algal Biochemistry.

Work Experience

1. Assistant Professor (WBES) at Rani Indira Devi Government Girls' College (31.12.2024 - present).
2. Botany Faculty at UNACADEMY, Kolkata (30.01.2024 - 30.12.2024).
3. SRF at WBPCB-sponsored project "Inventorization and documentation of significant wetlands of West Bengal" at University of Kalyani.
4. UGC-SRF at University of Kalyani (March, 2020- March,2023)
5. UGC-JRF at University of Kalyani (March, 2018- March,2020)
6. Guest Lecturer of Botany at Kalyani Mahavidyalaya (November, 2016- June, 2020)

Publications

1. Choudhury, S., Basuli, D., Das, T., Nandi, S., & Sarkar, N. S. (2023). Exploring fatty acid connections between estuarine fish *Chelon planiceps* and its diatom diet as taste and nutraceutical property influencing factor. *Algal Research*, 72, 103116.

2. Choudhury, S., & Sarkar, N. S. (2017). Algae as source of natural flavour enhancers-a mini review. *Plant Sci Today*, 4(40), 172-176.
3. Choudhury, S., Majgaonkar, A., Bhatia, M., Sinha, D., Datta, S., Banerjee, S., & Seal, S. (2024). Molecular Mechanisms of Action of Antidiabetic Phytochemicals. *Adv. Pharmacogn. Phytochem. Diabetes*, 147, 149-168.
4. Das, T., Choudhury, S., Dutta, A. K., & Sarkar, N. S. (2024). Morphological and molecular characterization of the elusive vegetative stage of the diatom *Cerataulina bicornis*: a new record from Indian Sundarbans. *Botanica Marina*, 67(6), 637-643
5. Sinha, D., Chatterjee, M., Choudhury, S., Seal, S., Das, T., Sharma, S., ... & Chowdhury, S. Terpenes and Terpenoids: Potent Antiviral Agents Against SARS-CoV-2. In *Bioactive Compounds Against SARS-CoV-2* (pp. 94-110). CRC Press.
6. Das, S., Choudhury, S. & Sarkar, N.S. (2023) Impact of Phytoplankton Assemblages in the Sundarbans. In *WINGS OF LIFE- Genomics, Biodiversity and Life Processes*. Asiatic Society.

Conferences

1. Srijonee Choudhury and Neera Sen Sarkar (2023) –“ A unique combination feed of diatoms and Azolla for aquaculture: prospects of a sustainable commercial venture” in International Conference on Seedless Vascular Plant Research and Transdisciplinary Approaches: Biodiversity Exploration and Sustainable Livelihood at University of Kalyani organized by Indian Fern Society (Oral presentation)
2. Srijonee Choudhury and Neera Sen Sarkar (2019)- “Coscinodiscus diversity in gut content of Hilsa from Indian Sundarbans” at International Conference “Biospectrum”, 2019 organised by UEM, Kolkata (Poster presentation)
3. Srijonee Choudhury and Neera Sen Sarkar (2019)- “An insight into India’s Indigenous food and beverages and associated IP issues” at 7th India Biodiversity Meet held in the ISI, Kolkata (Oral Presentation)
4. Srijonee Choudhury and Neera Sen Sarkar (2019)- “Diatoms in the gut of *Tenualosa ilisha*” 4th Regional Science and Technology Congress, 2019 ((Poster presentation)
5. Srijonee Choudhury and Neera Sen Sarkar (2017)- “Implications of diatom diet preference of Hilsa in the Indian Sundarbans” at the 2nd Regional Science and Technology Congress. (Oral presentation)
6. Srijonee Choudhury, Bratati Sikdar and Soutrik Acharyya (2014) in National Seminar on Cryptogamic Botany. Learning Cryptogams: Amazing to know. (Poster presentation)

Awards

1. BEST ORAL PRESENTATION

Srijonee Choudhury and Neera Sen Sarkar (2023) –“ A unique combination feed of diatoms and Azolla for aquaculture: prospects of a sustainable commercial venture” in International Conference on Seedless Vascular Plant Research and Transdisciplinary Approaches: Biodiversity Exploration and Sustainable Livelihood at University of Kalyani organized by Indian Fern Society (Oral presentation)

2. BEST POSTER PRESENTATION

Srijonee Choudhury and Neera Sen Sarkar (2023) –“ A unique combination feed of diatoms and Azolla for aquaculture: prospects of a sustainable commercial venture” in International Conference on Seedless Vascular Plant Research and Transdisciplinary Approaches: Biodiversity Exploration and Sustainable Livelihood at University of Kalyani organized by Indian Fern Society (Oral presentation)

Research expertise

1. MICROSCOPY
2. SEM

3. DIATOM CULTURE TECHNIQUES
4. MICROBIOLOGICAL CULTURE TECHNIQUES
5. UV-VIS SPECTROSCOPY
6. GC-MS
7. HPLC
8. PAST (statistical software)
9. QGIS (mapping tool)