

Name	Dr. Chumki Chowdhury	
Designation	Assistant Professor, Level 11	
Department	Botany	
Institution	Jangipur College, Murshidabad	
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Academic Qualification		
Examination	College/University	Year of Passing
Ph.D.	University of Calcutta	2014
M.Sc	University of Calcutta	2006
B.Sc	Scottish Church College, CU	2004
H.S.	Scottish Church College, CU	2001
Teaching Experience		
Jangipur College (UG)	Assistant Professor	December, 2016-till date
Area of Specialization:		
Phenology of phytoplankton		
Biological carbon pump in aquatic environment		
Blue carbon		
Carbon sequestration by diatom (Micro algae)		
Publications (Top Ten):		
<p>Chowdhury Chumki, “Transparent exopolymer particle production by diatoms and its relation with CO₂ flux in mangrove waters of sunderban, West Bengal.” 2023, Journal of Marine Biological Association of India, 65(1).</p> <p>2. Chumki Chowdhury, Natasha Majumder and Tapan Kumar Jana. Measuring Seasonal dynamics of transparent exopolymer particles (TEP) in the mangrove system. (2016) in Journal of sea research, 112:65-74.</p> <p>3. Chumki Chowdhury, Natasha Majumder, Raghab Ray, Tapan Kumar Jana . "Inter-annual variation in some genera of diatom and zooplankton abundance in the mangrove ecosystem" 2012, Biodiversity and Conservation, 21(8), 2029-2043</p> <p>4. Chumki Chowdhury, Natasha Majumder, Sanjay Kumar Mandal, Manab Kumar Dutta, Raghab Ray, Tapan Kumar Jana .2011.Cell Size versus Taxonomic Composition as Determinants of As (III & V) Sensitivity in the Estuarine Diatom Communities. Journal of Water Resource and Protection, 3, 363-369 doi:10.4236/jwarp.2011</p> <p>5. R. Ray, N. Majumder, S. Das, C. Chowdhury, T. K. Jana, 2014, Biogeochemical cycle of nitrogen mangrove ecosystem, east coast of India. Marine Chemistry, 167, 33-43</p> <p>6. M.K. Dutta, C. Chowdhury, T.K. Jana, S.K. Mukhopadhyay. 2013. Dynamics and exchange fluxes of methane in the estuarine mangrove environment of the Sundarbans, NE coast of India. Atmospheric Environment 77, 631-639.</p> <p>7. R. Ray, C. Chowdhury, N. Majumder, M. K. Dutta, S. K. Mukhopadhyay, T. K. Jana. 2013, Improved model calculation of atmospheric CO₂ increment in affecting carbon stocks of tropical mangrove forest, Tellus B, 65,</p>		

18981, <http://dx.doi.org/10.3402/tellusb.v65i0.18981>.

8. R. Ray, N. Majumder, **C. Chowdhury**, T. K. Jana. 2012, Wood chemistry & density: an analog for response to the change of carbon sequestration in mangroves, *Carbohydrate Polymers*, 90, 102-108.

9. Mitali Dey, **Chumki Chowdhury**, Asim A. Pattnaik, Dipnarayan Ganguly, Sandip K. Mukhopadhyay, Tarun K. De & Tapan K. Jana. 2012, Comparison of Monsoonal change of water quality parameters between 1983 and 2008 in a tropical estuary in Northeastern India: role of phytoplankton and community metabolism. *Marine Ecology*, 34(1), 14-29.

10. R. Ray, D. Ganguly, **C. Chowdhury**, M. Dey, S. Das, M. K. Dutta, S. K. Mandal, N. Majumder, T. K. De, S. K. Mukhopadhyay, T.K. Jana. 2011. Carbon sequestration and annual increase of carbon stock in a mangrove forest. *Atmospheric Environment*. 45(28), 5016-5024.

Paper Presented/Attended/Resource Person in Seminar/Conference/Workshops/FDP's (Top Ten):

1. Acted as **resource person** in the Refresher Course in Marine Science on 22nd Feb, 2023.

2. Delivered "**Invited talk**" on the topic "Biological Pump, relating it to diatom bloom in the estuarine environments along the north east coast of bay of Bengal, India." in a two day National Conference on "**Science and Technology: Rural development**" will be organized jointly by the Indian Science Congress Association (Kolkata Chapter) & Surendranath College, Kolkata on 20th and 21st January 2020.

3. Presented (Poster) on the topic "Comparison of CO₂ flux in two tropical estuaries in NE coast of Bay of Bengal, India." , in **SOLAS OSC** , 7th to 11th Sept. 2015, **Kiel, Germany** by receiving **Endowment Fellowship** from Calcutta University.

4. Presented (Oral presentation) on the topic "Stimulation of estuarine biological pump for CO₂ using Gibberelic acid." in the conference **AOGS (2012)**, August 13 to 17, **Singapore** by receiving the fund from both Department of Science and Technology (**DST-ITS**), Govt. of India and University Grant Commission (**UGC**).

5. Presented (Oral presentation) in the conference, **OSCICON-2013, IITM, Pune** on the topic "Comparison of biological pump in two estuaries of NE coast of Bay of Bengal, India."

6. Presented (Oral presentation) in the conference of **99th Indian Science congress in Bhubaneswar, January (2012)**. India. On the topic "Size dominated tolerance level of estuarine diatom to the arsenic toxicity."

7. Presented (Oral presentation) in the conference of **AOGS (September, 2010), Hyderabad** on the topic "Temporal and Spatial variation of Biological Pump for Air-Water Exchange of CO₂ Controlled by Phytoplankton Productivity."

8. Presented (Oral presentation) in the conference, **4th International Congress of Environmental Research in Surat, (January, 2011)** on the topic "Spatial and Temporal Variability in Phytoplankton Diversity in Two Tropical estuaries"

9. Attended FDP in Enterprise Development Institute, Saltlake, organized by DST from 13th to 23rd February, 2018.

10. Attended workshop on Plant Systematics: Challenges and Perspective and Dr. Dan H. Nicolson Memorial Lectures from 13th to 23rd February, 2017 in dept. of Botany, CU.

Other details(if any):