Curriculum Vitae

Chandranath Ghosh

Education

July 2014 – July 2016	**M.Sc.**, Banaras Hindu University; **CGPA:** 7.6/10; **Major:** Chemistry
July 2010 – July 2014	**B.Sc.**, Midnapore College; **Marks obtained:** 64.6%; **Major:** Chemistry
July 2010	**Higher Secondary Examination,** Midnapore Collegiate School (West Bengal Council of Higher Secondery Education); **Percentage:** 81.2%
June 2008	**Secondary Examination,** Midnapore Collegiate School (West Bengal Board of Secondary Education); **Percentage:** 87.625%

Research Projects & Internships

Aug 2020 – present	"Enzyme promiscuity via Catalytic Cross β amyloid: In Equilibrium and Out of Equilibrium Assemblies." Ongoing research work for PhD.
	Supervisor: Dr. Dibyendu Das, Dept. of Chemical Sciences, IISER Kolkata
April 2019 - July 2020	"Dissipative Microphases Regulated by Emergence of Catalytic Behaviour in Supramolecular Peptide Assemblies"
	Supervisor: Dr. Dibyendu Das, Dept. of Chemical Sciences, IISER Kolkata

All India ranking

CSIR-NET (LS):	All India Rank 30, December, 2017
CSIR-NET (LS):	All India Rank 27, June, 2019

Conferences

- **Systems Chemistry Virtual symposium:** 7-9 July, 2021
- **ChemSci 2020, Leaders in the field Symposium:** 7-10 December, 2020
- **Virtual Symposium CRC 235- Emergence of Life. Munich:** August, 2020
- **Virtual Systems Chemistry Symposium:** May 18-20, 2020

Research Interest

To explore the prowess of catalytic promiscuity in equilibrium and non-equilibrium conditions and design systems capable of performing 'life-like' features. Specifically, the interest lies in understanding the complexity found in the modern-day enzymes and mimic the active site by the exploitation of small peptide sequences. Aside from that, to develop intelligent theranostic tools and make stimuli responsive soft materials through the exploitation of the catalytic activity of short peptides shall also be tried.

Publication list

1. Subhajit Bal, Chandranath Ghosh, Tapan Ghosh, Ratheesh K. Vijayaraghavan and Dibyendu Das*. "Non-Equilibrium Polymerization of Cross-β Amyloid for Temporal Control of Electronic Properties" ***Angew. Chem. Int. Ed. 2020, 59, 13506-1351***.

2. Syed Pavel Afrose, Chandranath Ghosh and Dibyendu Das*. “Substrate induced generation of transient self-assembled catalytic systems” ***Chemical Science 2021, (Just Accepted)***.