

Aniket Banerjee, MRSB (London)

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MOTIVATION

I am an outcome-driven PhD student with a strong desire to pursue innovative research in a challenging working environment in order to nurture my intellectual capacity, my experimental and analytical skills and to deliver objective-driven high quality outputs.

Research Experience

IIT Guwahati • July 2019- Present

I am researching towards the expansion of genetic alphabet by incorporation of unnatural nucleobases into DNA using solid-phase DNA synthesis, which could be used to detect DNA mutations and therapeutics. I am also researching towards the expansion and reprogramming of genetic code.

IIT Guwahati • January 2019- May 2019

Researched on developing an iodine doped Titanium Dioxide material towards sensing and photocatalytic shooting (degradation) of organic dyes such as methyl orange and methylene blue.

KIIT University • 2016- 2018

Studies on distinct pattern formation in biological cells in Material Science Laboratory under the guidance of Dr. Priti Sundar Mohanty.

Publications

Simultaneous sensing and photocatalytic degradation to free water from toxic dye pollutants for possible agricultural and household applications: Role of generated holes and hydroxyl radicals. Subhendu Sekhar Bag*, Sayantan Sinha, **Aniket Banerjee**, Animes Golder, Journal of Environmental Chemical Engineering, **2022**, *10(6)*, 108919 <https://doi.org/10.1016/j.jece.2022.108919>. (*IF*=7.968)

Teaching Experience

Teaching Assistant at North Guwahati College, Gauhati University, Assam: Courses taught: 1) Principles of Genetics. Code: ZOO-HC-5026. 2) Molecular Biology. Code: ZOO-HC-5016. 3) Animal Physiology: Life Sustaining Systems. Code: ZOO-HC-4026.

Teaching Assistant at IIT Guwahati: Courses taught: 1) Bio-Organic Chemistry. Code: CH 621.

Awards

1. NEWGEN IEDC Fellow at IIT Guwahati, 2022-23, Grant worth Rs. 2.5 Lakh.
2. Best Mess Convener Award at IIT Guwahati, for the Academic Year 2022-23, awarded by Hostel Affairs Board, IITG.
3. 1st place Bizzare-E-Bazaar - Marketing Case Study Competition in E-Sparsha 2022, held by Praxis Business School, Kolkata. Cash Prize Worth Rs. 10000.00 only.
4. Prime Minister's Research Fellowship (Lateral Entry, May 2020 Cycle).
5. IIT Guwahati MHRD Fellowship 2019.

Reference: Prof. Subhendu Sekhar Bag {CChem, FRSC, FICS}. Email: ssbag7S@iitg.ac.in

SKILLS

I am proficient in the techniques associated with Molecular Biology, Biochemistry, Cell Biology and Microbiology.

INSTRUMENTATION

Agarose gel electrophoresis and Polyacrylamide gel electrophoresis, FESEM, FETEM, Fluorescence Microscopy, XRD, HPLC, UV and Fluorescence Spectrophotometer, IR Spectrometry

EDUCATION

IIT Guwahati

Guwahati, Assam • 2019- 2020

Doctoral Coursework

GPA: 9.5

School of Biotechnology, KIIT University

Bhubaneswar, Odisha • 2014- 2019

B.Tech/M.Tech Dual Degree

GPA: 9.07

Garden High School

Kolkata, West Bengal - 2014

Higher Secondary (ISC)

GPA: 81%

Garden High School

Kolkata, West Bengal - 2012

Your Degree

GPA: 91.2%

MEMBERSHIP

- Member of the Royal Society of Biology (MRSB), London, UK.
- Member of the American Society of Microbiology (MASM), USA.