Dr. Pronama Biswas

Assistant Professor

✉ pronama-sbas@dsu.edu.in

Specialization:

Genetics and Molecular Biology

Qualification:

PhD from IIT Madras, M.Sc. in Genetics from University of Calcutta, B.Sc. in Botany Hons. from University of Calcutta

Teaching Experience: 1.5 year

Awards & Recognition:

Awards

- Qualified GATE with AIR 437 in 2016 and CSIR NET (LS) 2014- AIR 31.
- Jagannath Mandal Cash Prize- 2015, University of Calcutta
- Secured first rank in M.Sc.- Department of Genetics, University of Calcutta- 2015
- Awarded Summer Undergraduate Research Fellowship (2014) by Indian Academy of Sciences Bangalore, Indian National Science Academy New Delhi, The National Academy of Sciences India, Allahabad.

Patents

- System and method for encoding and decoding ethnic data into genetic codes. Patent grant number- 475673 (August 2018).

LinkedIn URL:

https://www.linkedin.com/in/dr-pronama-biswas-46b268b7/

Funded Projects:

- Extraction of bioactive compounds from *Withania somnifera* (Ashwagandha) and *Garcinia indica* (Kokum) and formulation of dual plant extract-loaded PEG-PLGA nanoparticles for synergistic

and targeted delivery for cancer treatment. (DSU Seed Grant- 6,20,000 INR)

- Development of Portable Electrospinning Device & Biocompatible Formulations for In-situ Application of Nanofibers for Wound Management. (DSU Seed Grant- 6,25,000 INR)
- Predictive QSAR modeling for therapeutic strategies targeting Sm16 protein's immune modulating role in host-parasite interaction. (KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY)

Publications in Refereed Journals:

Total Publications: 5

Total Citations: 11

h-index: 1

Google Scholar ID:

https://scholar.google.com/citations?user=Ufn1FhYAAAAJ&hl=en&oi=ao

Areas of Interest:

1. Synergistic and targeted drug delivery for cancer treatment.
2. Genetic and epigenetic profiling of rare genetic diseases.
3. Effect of oxidative and nitrosative stress on disease pathophysiology.
4. Using AI and ML for drug discovery.