Stanford

Abrar Bhat

Postdoctoral Scholar, Chemical Engineering

Bio

BIO

Abrar Bhat is a postdoctoral researcher in the Dunn Research Group of the Chemical Engineering department. His current research interest lies in understanding the biophysical mechanisms that govern the formation and dynamics of neuronal synapses within the human brain.

During his Ph.D. at NCBS, TIFR, Bangalore, Abrar applied a multidisciplinary approach to investigate the organization of the cell membrane using principles drawn from active matter physics.

PROFESSIONAL EDUCATION

- Ph.D., NCBS (TIFR) Bangalore, India , Cell biology and biophysics (2023)
- M.Sc., University of Kashmir, Srinagar , Biochemistry (2012)
- B.Sc., S.P. College, University of Kashmir, Srinagar , Biochemistry, Chemistry, Zoology (2009)

STANFORD ADVISORS

- Alexander Dunn, Postdoctoral Faculty Sponsor

LINKS

- Dunn group webpage: https://dunngroup.stanford.edu
- LinkedIn Profile: https://www.linkedin.com/in/abrarab/
- Google Scholar: https://scholar.google.com/citations?hl=en&user=GBuOksoAAAAJ

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am investigating the biophysical mechanisms that govern the organization and function of adhesion GPCRs involved in the process of synapse formation. aGPCRs possess dual roles in cell adhesion and signaling. Despite their importance in processes like neuronal synapse formation and association with various neuropsychiatric disorders, the precise mechanisms governing their organization and function at the cell membrane remain enigmatic.

LAB AFFILIATIONS

- Alexander Dunn, Dunn Research Group (10/4/2023)