



Department of Biophysics

University of Delhi, South Campus, New Delhi-110021

The Department of Biophysics, established in 1985, as a part of Faculty of Applied & Interdisciplinary sciences (FIAS). It offers postgraduate M.Sc. and Ph.D. courses in Biophysics. The curriculum provides an in-depth understanding of both the theoretical and practical aspects of various traditional and contemporary fields of biophysics, with a strong focus on hands-on training.

The primary research and teaching theme of the department is: Unraveling the complex mechanisms of biological systems through the lens of physics. The department significantly contributes to the development of innovative biophysical techniques, creation of computational models for biological systems, and exploration of novel therapeutic strategies to address a range of human diseases.

FACULTIES



Prof. Subhendu Ghosh
Designation: Professor (Superannuated)



Dr. Hemlata Agnihotri
Designation: Assistant Professor



Dr. Suman Tapryal
Designation: Associate Professor



Prof. Manisha Goel
Designation: Head of the Department & Professor



Prof. Manish Kumar
Designation: Professor



Dr. Sumit Kumar Chaturvedi
Designation: Assistant Professor

Major Ongoing Projects

S. No.	Project Title	Name of PI	Funding Agency
1	Using the National COVID-19 testing database to develop a machine learning model for rapid prioritization/triage of SARS-CoV2 patients and demographic groups	Dr. Manish Kumar	ICMR, Department of Health & Family Welfare, Govt. of India, New Delhi New Delhi
2	Artificial intelligence-aided genomics, transcriptomics and proteomics analyses of multidrug-resistant enteropathogens to discern novel drug targets		ICMR, Department of Health & Family Welfare, Govt. of India, New Delhi New Delhi
3	Center of Antibody Engineering: Center for Immuno-Diagnostics! Therapeutics Veneering technologies (CIVET)	Prof. Manisha Goel & Dr. Manish Kumar	SERB - DST, Govt. of India, New Delhi
4	Specific single domain antibodies (sdAbs) against antimicrobial resistant Mastitis pathogens for clinical therapeutic use in dairy animals		DBT, Govt. of India, New Delhi
5	Investigations into the adjuvant-like role of IgM Fc domains, as fusion partner of chimeric HSV2- Fc subunit vaccines, in stimulating Th1 type immune response in mice	Dr. Suman Tapryal	ICMR – (Extramural Grant)
6	Therapeutic Approach for Parkinson's disease	Dr. Sumit Kumar Chaturvedi	ICMR
7	In silico and molecular investigation of super-conserved receptor expressed in the brain, SREB3 (GPR173): A putative therapeutic target for brain disorders	Dr. Hemlata Agnihotri	IoE
8	Elucidating the functional insights of super-conserved receptor expressed in the brain, SREB3 (GPR173).		SERB-SRG