List of PhD project vacancies for Jan 2025 session

Biological Engineering				
1	Shantanu Pradhan	Expansion microscopy		
	Richa	Lab-on-chip technology for biomedical applications		
2	Karmakar			
3	Krithika Ravi	Metabolic engineering strategies for the upcycling of aromatics from waste resources to value-added products		
	M. Hamsa	Molecular Modeling of Peptide Assembly and Aggregation		
4	Priya			
	Greeshma	Neuroimmunomodulation on a chip		
5	Thrivikraman			

Biological Sciences				
1	Greeshma Thrivikraman	Injectable microgels for chondrogenesis		
2	Santhosh Sethuramanujam	(1). Investigating the function of retinal neuronal circuits using single cell patch clamp recordings.(2). Performing and analyzing large-scale neuronal recordings in brain to understand the circuit mechanisms underlying visual behaviour.		
3	Amal	Deciphering the role of PIGBOS1 in metabolism		
4	Himanshu Sinha	Role of Ribosomal Protein Variants in Phenotypic Plasticity; Role of Ribosomal Protein Variants in Pan-Transcriptome and Pan-Proteome Variation		
5	Mamata Bangera	Role of cytoskeletal filament crosslinking in cellular processes Modification of cytoskeletal organisation in plant response to stress		
6	Vani J	 (1). Understanding cell-cell communication in bacteria and its relevance to antibiotic resistance. (2). Understanding novel bacterial SIMs and their interaction with novel immune receptors at the neuro-immune interface. (3). Virus infections instigating autoimmune diseases 		

Computational Biology				
1	Meiyappan Lakshmanan	Multi-omics data driven CHO cell line development; Single cell multi-omics data integration		
2	Michael Gromiha	 Al based methods for detecting cancer mutations and image analysis Explore protein-protein interactions for Papaya Ring Spot Virus aphid transmission and design potential inhibitors 		
3	N Manoj	Molecular evolution of GPCRs		
4	M. Hamsa Priya	Machine Learning Guided Biomolecular Simulations		
5	Himanshu Sinha	Pan-Genome-Scale Metabolic Modelling of Large Yeast Population; Role of Ribosomal Protein Variants in Pan-Transcriptome and Pan-Proteome Variation		
6	Srinivasa Chakravarthy	 Developing improved Deep Brain Stimulation (DBS) protocols for PD and dystonia using computational modeling developing a unified model of spatial navigation and declarative functions of the hippocampus 		