Department of Biotechnology, IIT Madras MS (by Research) admissions July 2023

List of available MS (by Research) Project titles

1) CB- Computational Biology Stream

S.No.	Faculty Name	Project title(s), Number of vacancies
1	M. Hamsa Priya	Computational investigation of the molecular interaction between cyclodextrin and biomembrane (1 student)
2	Karthik Raman	ML and model-driven approaches approaches to design biological circuits Cancer genomics: Identifying correlated mutations from cancer genomic data
		Cancer genomics: ML approaches to identifying key mutations in cancer genomes responsible for radio-sensitivity (1 student)

2) BS- Biological Sciences Stream

S.No	Faculty Name	Project title(s), Number of vacancies
	Nathiya	Understanding the role of mediator kinases in pancreatic
1		neuroendocrine tumours (1 student)
	Nitish	Regulation of candidate genes for cardiovascular disease (1
2	Mahapatra	student)
		Spacial genome biology to understand pancreatic cancer
	S.	pathogenesis (1 student)
3	Mahalingam	
		Role of neurotransmitters in plant movement: A study in <i>Mimosa pudica</i> (1 student)
4	Baskar	Role of gasotransmitters and phytohormones in Dictyostelium growth and development (1 student)

3) BE- Biological Engineering Stream

S.No	Faculty Name	Project title(s), Number of vacancies
1	Smita	Metabolic engineering in Yeast for biosynthesis of the key
	Srivastava	intermediates in plant secondary metabolism. (1 student)
2	Richa	Computational analysis of cell-cell interaction during chemotaxis
	Karmakar	(1 student)
3	Madhulika	Mechanical characterization of engineered vascular cells
	Dixit	(1 student)
4	Vignesh	Bioactive scaffolds for soft tissue regeneration (1 student)
	Muthuvijayan	
5	Guhan Jayaraman	Strain engineering for bioconversion of lignocellulosic sugars to platform chemicals (1 student)