



Department of Biological Sciences, P D Patel Institute of Applied Sciences, Charotar University of Science and Technology

Research Areas



P D Patel Institute of Applied Sciences









Faculty Name	Research area(s)	
Palash Mandal	Fatty Liver Disease, Development of therapeutic interventions to normalize both alcohol and nonalcoholic-induced increases in hepatic inflammation, which could be used to treat patients with ALD, NASH, Role of gutmicrobioata in Fatty Liver Disease, Obesity and Diabetes.	
Gayatri Dave	Product and Process Development such as Eco-friendly fabric and Reporter assays for Microbial activity testing Anti-microbial activity testing Product characterization Toxicity analysis assays	



Faculty Name	Research area(s)	
	Ecofriendly Bricks and construction materials: Plant Microbe interaction Agriwaste management (Biochar preparation and use as bio fertilizer) Purification and applications of plant as well as microbial pigments	
	Use of Magnetic nanoparticles in controlling plant pathogens	
Aditi Buch	Nonbiological applications of biomolecules	





Faculty Name	Research area(s)
	Study of redox reactions, electroactive biopolymers, corrosion due to biofilms, biocatalysis
Bragadish Iyer	Development of Bioadhesives
	Liquid Waste Management
	Biotransformation
Seema Amin	Liquid Waste Management
Seema Amin	
	Nanotechnology for post-harvest storage applications
Anamika Jha	Biofertilizers and plant-microbe interactions





	Faculty Name	Research area(s)
	Cnite Possib	Bioconcrete development
	Anoop Markande	Developmentn of Moonlighting proteins
		Effect of medical imaging on surface microflora
		Protein Molecular Dynamics simulation
	Kirankumar Patel	Plant Microbe interaction, Optimization of Large scale Bio-control cultivation, Enzyme Engineering





Faculty Name	Research area(s)
	Integrated eco-electrogenic system for efficient and sustainable treatment of textile wastewater
	Microaerophilic-aerobic based treatment of textile effluents
Chirayu Desai	Microbial diversity across the Ganges
	Protein engineering: Purification of various enzymes; Enzyme Immobilization using nanomaterils to increase its stability
Bhavtosh Kikani	



Inter Disciplinary Research @ Biological Sciences, PDPIAS



Faculty Name	Research area(s)
Tapan A. Patel	Toxicity (in vitro and in vivo) and ameliorative studies of herbal-natural compounds, phytochemical analysis, cytogenetics
Mandar Kulkarni	Nutrition (Probiotics), Host-microbe interactions and Computational Biology
	Plant-Microbe interaction; Biocontrol activity, ISR and SAR response in plant
Janki K. Patel	





Faculty Name	Research area(s)
Neeraj Jain	Cancer Biology: Development of novel cancer therapeutic approach using magnetic nanoparticles for the treatment of solid tumors
	Synthesis of heterocyclic derivatives and evaluation of anti- cancer parameters
	Immunotherapy for Colorectal Cancer: Focus on Cancer like Stem Cells & Advance stages