




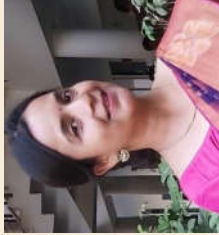




**RESEARCH**

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**DEPARTMENT OF BIOLOGICAL SCIENCE (DBS)**

Faculty Name	Research area(s)
 <b>Palash Mandal</b>	<p>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 gut-microbioata in Fatty Liver Disease, Obesity and Diabetes.</p>
 <b>Gayatri Dave</b>	<p>Product and Process Development such as Eco-friendly fabric and Reporter assays for Microbial activity testing</p> <p>Anti-microbial activity testing Product characterization Toxicity analysis assays</p>

Faculty Name	Research area(s)
 <p><b>Janki N. Thakker</b></p>	<p>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</p>
 <p><b>Aditi Buch</b></p>	<p>Use of Magnetic nanoparticles in controlling plant pathogens</p> <p>Nonbiological applications of biomolecules</p>

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


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

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



## Inter Disciplinary Research @ Biological Sciences, PDPIAS

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

Faculty Name	Research area(s)
<div data-bbox="695 1621 951 1894">  </div> <p data-bbox="971 1415 1008 1604"><b>Neeraj Jain</b></p>	<p data-bbox="625 207 755 1117"><b>Cancer Biology:</b> Development of novel cancer therapeutic approach using magnetic nanoparticles for the treatment of solid tumors</p>
	<p data-bbox="971 191 1057 1117">Synthesis of heterocyclic derivatives and evaluation of anti-cancer parameters</p>
	<p data-bbox="1203 195 1289 1117">Immunotherapy for Colorectal Cancer: Focus on Cancer like Stem Cells &amp; Advance stages</p>