Status of research project proposals submitted under Research Support Scheme in January 2026 cycle

NOTE:
1. The project proposals listed below are under process at GSBTM. The applicants are advised not to resubmit the same proposals in the next cycle commencing from 1st April 2026.
2. All proposals listed here shall be treated as submissions for the Financial Year 2025–26.

Section A: Proposals under this section (Sr. No. 1 to 111) are under scrutiny by the Internal Scrutiny Committee of GSBTM			
Sr. No	**Name of PI**	**Broad Area**	**Project Title**
1	Dr. Pinkeshkumar Sutariya	Environmental Biotechnology	Smartphone-enabled portable calix[4]arene-based fluorescence spectrometer for pesticides
2	Dr. Vijay Jaswal	Environmental Biotechnology	Spatial Distribution of Heavy Metals and Associated Water Quality Parameters in Groundwater/Drinking Water Resources of Ankleshwar Taluka, Gujarat.
3	Dr. Paresh N Patel	Environmental Biotechnology	Development of microbial assisted bioleaching of silicon from solar waste: In-situ conversion into silicon nanomaterial for advanced electronic applications
4	Dr. Dusmant Maharana	Environmental Biotechnology	Valorisation of high-lignocellulosic mangrove residual biomass into functional carbonaceous materials for remediation of PFAS-contaminated wastewater
5	Dr. Vikram H. Raval	Environmental Biotechnology	Bacillus Isolates from Sewage and Fresh Water: A Comparative Study for Sustainable Polyhydroxyalkanoates (PHAs) Synthesis Using Agricultural Biomass
6	Dr. Vijay R. Ram	Environmental Biotechnology	Removal of dyes and heavy metals from aqueous media using Phoenix Dactylifera L. leaves derived activated carbon and - kaolin clay-based composite
7	Swati Dubey	Environmental Biotechnology	Green Biocomposite from bacterial cellulose for fluoride free water
8	Dr. Virendra Kumar Yadav	Environmental Biotechnology	Nanobiotechnology-based Solutions for the Remediation of Major Organic Pollutants from the Wastewater of Alang–Sosiya Shipyard, Gujarat
9	Dr. Joydeep Chakraborty	Environmental Biotechnology	Management of microplastic pollution caused by sanitary care products using a combinatorial approach
10	Dr. Akshaya Gupte	Environmental Biotechnology	Microbial community analysis of wetland (Pariej Lake) and development of microbial consortia capable of degrading antibiotics and emerging pollutants
11	Dr. Hardik Gohel	Environmental Biotechnology	Next-Generation Lignocellulosic Biorefinery: From Recalcitrant Lignin to Biodegradable Plastics via Genetic and Microbial Engineering
12	Dr. Mahuya Bandyopadhyay	Environmental Biotechnology	Bio-Inspired Nanoporous Photocatalytic Platforms for Heavy Metal Removal and Recovery from Wastewater
13	Prof. Hitesh D Patel	Environmental Biotechnology	Sustainable Conversion of Waste Potato Biomass into Bioethanol and Value-Added Products
14	DR. Urvish Chhaya	Environmental Biotechnology	Bioprospecting of fungal metalloenzymes for the sustainable removal of an emerging pharmaceutical pollutant diclofenac.
15	Dr Aditi D Buch	Environmental Biotechnology	Development of a Glucose-based, Methanol-free Microbial Platform for Sustainable Production of Pyrroloquinoline Quinone (PQQ)
16	Dr Nivedita Priya	Environmental Biotechnology	Development of an integrated microfluidic fluorescent POCT platform for the identification of microplastics in wastewater and their remediation using micro-nano-based approaches
17	Dr Harengiri Gosai	Environmental Biotechnology	Gene Cloning, Recombinant Expression, and Functional Characterization of Hyaluronidase in Escherichia coli for Sustainable Circular Bioeconomy Applications
18	DR. DHAVAL ACHARYA	Environmental Biotechnology	Development of Sustainable Starch–Cellulose Nanocrystal Bioplastic Films Using Renewable Waste Materials
19	Dr. Shreya Modi	Environmental Biotechnology	GREEN FABRICATION OF CELLULOSE-BASED METAL OXIDE NANO BIOPOLYMERS FOR WASTEWATER TREATMENT AND ENVIRONMENT CLEAN UP
20	Dr. Ajit Kumar	Environmental Biotechnology	Development of Optical Sensor Platforms for Rapid Detection of Pesticide Residues in Agricultural Soil and Water
21	Dr. Uma Chaduvula	Environmental Biotechnology	Development of Indigenous Bio-waste Based EICP for Sustainable Soil Stabilization
22	Dr. Priyanka Shah	Environmental Biotechnology	Development of novel ion-exchange coated paper-based extraction disc (PBED) for Heavy Metal Analysis in Dietary Supplements using green solvents
23	Dr. Samandeep Kaur	Environmental Biotechnology	Development of a Biodegradable Hydrogel-Based Biomaterial for Controlled Nutrient Delivery: Proof-of-Concept Studies Using Microgreens
24	Prachi Thareja	Environmental Biotechnology	Morphology-Engineered Marine Bioplastic Films and Coatings via Electrostatic Biopolymer Fillers
25	Dr. Balraj Krishnan Tudu	Environmental Biotechnology	Design and Implementation of Advanced Oxide-Based Nanoparticle Coating Systems for Sustainable Mitigation of Acid Mine and Rock Drainage in Gujarat

Sr. No	Name of PI	Broad Area	Project Title
26	Dr Avni Divatia	Environmental Biotechnology	Isolation, Optimization and Large-Scale Production of Lipase Using Kitchen Waste Collected from Cloud Kitchens and Home Restaurants
27	Dr. Richa Soni	Environmental Biotechnology	“Waste-to-Wealth" Edible Coating: A Marine-Derived Solution for Food Preservation and Plastic Reduction
28	Dr. Hiren Patel	Environmental Biotechnology	Mushroom based biotechnological valorization of agricultural lignocellulosic waste into sustainable biodegradable biomaterials for rural bio-enterprise development in Gujarat
29	Dr. Abhinav Parashar	Environmental Biotechnology	A Biphasic Approach for the Remediation of Polycyclic Aromatic Hydrocarbons
30	Prof. Abhijit Mishra	Environmental Biotechnology	Reusable Polymer-Coated Cellulose Acetate Beads for Efficient Antibacterial Filtration of Water
31	Dr. Appan Roychoudhury Dr. Pranjal R. Modi	Healthcare Biotechnology	Multiplexed Electrochemical Biosensor for Point-of-Care Monitoring of Type 2 Diabetes and Related Liver Complications
32	Dr. Juhi Saxena	Healthcare Biotechnology	Integrated Transcriptomics and Artificial Intelligence for Non-Invasive Biomarker Discovery in Pre-Eclampsia Diagnosis
33	Dr. Rohini R Nair	Healthcare Biotechnology	Validation of Nature-Inspired miRNA as Epigenetic Regulators of Human Gene Targets
34	Dr. Subhash Rajpurohit	Healthcare Biotechnology	Decoding the Aedes aegypti Microbiome-Metabolome Axis to Enable Anti-Microbiota Vaccine Development
35	Dr. Nitish Sharma	Healthcare Biotechnology	Isolation, characterization, and formulation of a Costus igneus derived potential antidiabetic peptides for the therapeutic management of type 2 diabetes
36	Dr. Omprakash D. Dave	Healthcare Biotechnology	Evaluation of the effect of Ayurvedic Glue in the Management of Recto-Vaginal Fistula.
37	Dr. Prabhudas S. Patel Dr. Aruna Agrawal	Healthcare Biotechnology	Identification of Predictive Signatures for Progression and Therapeutic Failure for Oral Anti-Hyperglycemic Agents in Patients with Type 2 Diabetes Mellitus: A study focused on patient from Gujarat region
38	Sumit Bhawal	Healthcare Biotechnology	Quantitative Testing Framework for Hemostatic Materials Using Mechanical Actuation and Vision Analytics
39	Dr. Yati H Vaidya Dr. Anju P Kunjadiya	Healthcare Biotechnology	Maternal Metagenomic Biomarker Profiling and Probiotic-Enhanced Nutrition for Early Prediction and Prevention of Adverse Pregnancy Outcomes in Indian Women
40	Dr. Akhilesh Prajapati	Healthcare Biotechnology	Repurposing of Anti-Inflammatory Drug and metabolites for Targeted Inhibition of Prostatic Inflammation in BPH
41	Dr Ketan M Ranch	Healthcare Biotechnology	Rapidly Dissolving Microemulsion-based Microneedle Arrays of Tadalafil for Treating Raynaud’s Phenomenon
42	Dr Ketan M Ranch	Healthcare Biotechnology	Chitosan-Hyaluronic acid functionalized PLGA Nanoparticles eluting contact lens for Non-Invasive mAb Delivery to the posterior segment: Targeting Diabetic Retinopathy by overcoming ocular barriers
43	Dr. Amit Shard	Healthcare Biotechnology	Discovery and Preclinical Development of a Structurally Diverse Pyruvate Kinase M2 Activator Platform to Attenuate Diabetic Nephropathy and Systemic Metabolic Complications
44	Dr. Rajkumar Sankaranarayanan	Healthcare Biotechnology	Deciphering Population-Specific Genetic and Circulatory Signatures of Diabetes and Diabetic Retinopathy in Gujarat for Early Risk Prediction
45	Dr. Vijay Jagdish Upadhye	Healthcare Biotechnology	Theragnostic Mesosilica Nano-systems for Real-Time Detection and Targeted Elimination of Uropathogenic Biofilms
46	Dr. Kanchan K Mishra	Healthcare Biotechnology	Development of a Functional Three-dimensional Human Liver Tissue Construct using Human Umbilical Cord-derived Mesenchymal Stem Cells (hUC-MSCs) for Drug Toxicity Screening and Regenerative Medicine Research
47	Dr. Rakeshkumar R. Panchal	Healthcare Biotechnology	Engineering Escherichia coli for Efficient Production of Hyaluronidase from Streptococcus spp. for Industrial Applications
48	DR. MANISH P. PATEL	Healthcare Biotechnology	Development and Validation of Personalized Ayurvedic Formulations Using Omics Tools and Microfluidic Chips for Neurodegeneration
49	Dr. Abhijeet S. Kate	Healthcare Biotechnology	LC-HRMS Dereplication-Guided Isolation and Characterization of Bioactive Secondary Metabolites from Endozoic Fungi Associated with Marine Invertebrates
50	Dr. Prashant Murumkar	Healthcare Biotechnology	Unveiling the Potential of Vicinal Diaryl Compounds as Multi-Targeted Agents for Neurodegenerative Disease Management
51	Dr. SURYA RAMACHANDRAN	Healthcare Biotechnology	Validation of cyclophilin A as a next-generation marker and development of a lateral flow assay for detecting coronary artery disease early in patients with diabetes.
52	Dr. Meghna Adhvaryu	Healthcare Biotechnology	Transcriptomic and Systems-Level Evaluation of Indigenous Medicinal Plant Extracts as Novel Therapeutic Leads against Pancreatic Ductal Adenocarcinoma (PDAC)

Sr. No	Name of PI	Broad Area	Project Title
53	Dr. Shilpa Akshaya Gupte	Healthcare Biotechnology	Bioactive Secondary Metabolites from Bacillus spp.: A Synergistic Approach to Antimicrobial Resistance Mitigation and Gut Health
54	Dr. Sriram Seshadri	Healthcare Biotechnology	Determination of interlink between choline metabolite pathway, microflora and their metabolites in cardiac dysfunction: The Translational approach for Gut-Liver-Cardiovascular Axis
55	Dr. Laxmipriya P. Nampoothiri	Healthcare Biotechnology	Bioprospecting Aloe bio-actives containing Campesterol as mitodrug in management of PCOS Pregnancy: an In vivo study
56	Dr. Krutika S Abhyankar	Healthcare Biotechnology	Elicitor-Induced Lablab purpureus Bioactive Peptides: Carbohydrate Enzyme Inhibition and Insulin Signaling Restoration for Type 2 Diabetes Management
57	Dr. Shruti Chatterjee	Healthcare Biotechnology	In-vitro and In-vivo study on small anti-virulent molecules against Multi Drug-Resistant Shigella invasion and adhesion factors
58	Dr. Aparna Trusar Bagul	Healthcare Biotechnology	Development and Systems Biology Evaluation of an Ayurvedic Functional Meal Sachet for Glycaemic Risk Modulation in Pre-Diabetic Adults
59	Dr. Ruchi Vaidya	Healthcare Biotechnology	Development and biological validation of an agro-waste based postbiotic prototype for improving gut health and NCD risk reduction in midlife women
60	Sanjeev Kumar Upadhyay	Healthcare Biotechnology	Role of potassium channel Kv1.3 in adipose tissue and its population validation
61	Bhargav C. Patel	Healthcare Biotechnology	Development of a Multiplex qPCR Assay for quantifying hunam and male DNA and evaluating sample degradation in forensic samples
62	Prof. Ravi Shah	Healthcare Biotechnology	Development of α-Syn–Based Bioconjugate Platform for Enhancing Brain Bioavailability of Therapeutics in Alzheimer's Disease Management
63	Dr. Niha Ansari	Healthcare Biotechnology	Aptamer-Engineered Finger-Grip Biosensor for On-Site Fentanyl Screening
64	Dr. Yashwantsinh Jadeja	Healthcare Biotechnology	Design, Synthesis and In Vitro Evaluation of a Klotho-Inspired Decapeptide
65	Dr. Abhijit Biswas	Healthcare Biotechnology	Towards Development of Smart Hydrogel Platform for Accelerated Wound Healing with Real-Time Electrochemical Monitoring
66	Dr Gajraj Singh Kushwaha	Healthcare Biotechnology	AI-guided discovery of antibacterial compounds targeting enoyl reductase
67	Neha Shah	Healthcare Biotechnology	AI-Enabled Community Screening and Prevention Model for Anaemia and Sickle Cell Disease in High-Risk Rural Gujarat
68	Dr. Rakesh Yadav	Healthcare Biotechnology	Synthesis and Evaluation of Quinoline Derivatives For Anti-Tubercular Activity
69	Dr. Devang Sheth	Healthcare Biotechnology	Investigation of the preventive effects of cysteine, cysteamine and N-acetyl cysteine on Cardiac Cachexia: Molecular Mechanisms and Therapeutic Potential
70	Dr. Sanman Samova	Healthcare Biotechnology	Integrated Baculovirus - Insect Platform for Recombinant Sericin Production and Applications in Cosmetic Formulations
71	Ravindra Singh Rawat	Healthcare Biotechnology	Targeting RNA modifying domains of Nipah L-protein Through Integrated in Silico and Experimental Approaches
72	Dr. Malay Shukla, Dr Ramesh Pandit	Healthcare Biotechnology	Unravelling the mitochondrial genetic variations in pregnancy losses
73	Dr. Parth Thakor	Healthcare Biotechnology	Exploring plant-derived bioactive compounds from medicinal plants to combat human bacterial infection
74	Dr. Samir G. Patel	Healthcare Biotechnology	Next-Generational Inhalation Therapy for Drug-Resistant Tuberculosis: Sustainable, Scalable, and Site-Specific Approach
75	Dr. Udaykumar Girdharlal Vegad	Healthcare Biotechnology	Gut-Ovary Axis Modulation by an Enriched Shatavarin IV-Standardized Asparagus racemosus Extract for the Management of Polycystic Ovary Syndrome
76	Prof. Rakesh Kumar Tekade, Dr. Satyamitra Shekh, Dr Neha V Makwana,	Healthcare Biotechnology	Virulence-causing Gene Silencing Integrated Probiotic Therapy Using Aptameric-Nanogel for Treatment of Resistant Vaginal Candidiasis
77	Dr. Hardikkumar B. Rana	Healthcare Biotechnology	Development of safe and effective Intelligent Biodegradable Long-acting Nano Depot
78	Dr. Nehal Rami	Healthcare Biotechnology	Computational and Experimental Evaluation of Plant-Derived Bioactive Compounds and Their Topical formulations for the Management of Psoriasis
79	Dr. Nariya Mukeshkumar Babulal	Healthcare Biotechnology	Integrative evaluation of Mokshak (Schrebera swietenioides Roxb.) Hima: An Ayurvedic Panchvidha Kashaya Kalpana approach supported by metabolomics, computational and pre-clinical studies for haematinic activity and its sustainable utilization
80	Dr. Ranjitsinh Vijaysingh Devkar	Healthcare Biotechnology	Developing novel photosensitizers to target KHSRP for photodynamic therapy in NAFLD
81	Dr. Pravin Narayan Bhalerao	Healthcare Biotechnology	Synthesis and biological evaluation of fluorescent Palhinine natural products
82	Dr. Nariya Mukeshkumar Babulal	Healthcare Biotechnology	Mechanistic approach to validate the anti-urolithiatic potential of Linaria ramosissima (Wall.) Janch. with special reference to their classical dosage forms using integrated In silico, experimental, and molecular biotechnology approaches

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83	Dr. Ritu B. Patel	Healthcare Biotechnology	Microbiome Dysbiosis and Pregnancy Loss in Gujarat: A Translational Pathway to Functional Restoration
84	Dr. Vishal A Mevada	Healthcare Biotechnology	Microbial Biotransformation of Ayurvedic Phytochemicals for Host-Protein Targeted Broad-Spectrum Antiviral Prevention
85	Dr. Haresh Karshanbhai Ram	Healthcare Biotechnology	Design, Synthesis, and Evaluation of Triazolo-Pyrimidine Derivatives: Exploring Antioxidant and Antimicrobial Properties with Molecular Docking and ADMET Analysis
86	Himanshu Paliwal	Healthcare Biotechnology	Pulmonary Delivery of Delamanid via Mannosylated Solid Lipid Nanoparticles for Targeted Management of XDR-TB
87	Dr. Meghal A. Desai	Healthcare Biotechnology	Development of a Transdermal Patch Imbibed with Bitter Gourd Seed Oil Nanoemulsion and Management of Type II Diabetes Thereof
88	Dr. Shreeraj Shah	Healthcare Biotechnology	A Novel 3D-Printed Polymeric Uterine Insert for Targeted Herbal Management of Polycystic Ovary Syndrome
89	Dr. Shital Panchal	Healthcare Biotechnology	Malnutrition-Associated Intestinal Barrier Dysfunction and Its Influence on Cognitive Development in Pre-school Children
90	Dr. U.K. Gowri Kumari	Healthcare Biotechnology	Decoding Acoustic Frequency-Specific Mechanotransduction in the Regulation of Cellular uptake and Bioavailability: A Non-invasive Strategy to Modulate Cellular Drug Transport
91	Dr. Ebin T U	Healthcare Biotechnology	'ThyroGut': Development of a Standardized Ayurvedic Herbo-Mineral formulation for Hypothyroidism Targeting Gut Microbiome and Immune-Thyroid Axis
92	Dr. Bichismita Sahu	Healthcare Biotechnology	Investigating Epidermal Growth Factor Receptor (EGFR) homing-short peptides and peptidomimetics for biofilm associated infections
93	Dr. Ashok Kumar Bishoyi	Healthcare Biotechnology	Exploration of Marine Microorganisms for the Discovery of Novel Antimicrobials to Combat Antimicrobial-Resistant (AMR) Pathogens
94	Dr. Bhargav N. Waghela	Healthcare Biotechnology	Revelation of Multitargeting Phytoconstituents from Ethnomedicinal Plants to Target Clinically Relevant Resistance Determinants of Klebsiella pneumoniae
95	Dr. Payal Chauhan	Healthcare Biotechnology	Translational Development of a Synbiotic Formulation for Mitigating Metabolic, Inflammatory, and Oxidative Dysregulation in Chronic Obesity
96	Dr. Kapil Kumar	Healthcare Biotechnology	Healthcare Biotechnology–Driven Metabolomic Profiling for Early Risk Stratification of Chronic Obesity in Youth
97	Prof. Vijai Singh	Healthcare Biotechnology	Metabolic engineering of Escherichia coli Nissle 1917 for sustainable production of 5- aminolevulinic acid in photodynamic therapeutic applications
98	Dr. Gaurav Jerath	Healthcare Biotechnology	Development of Long-Acting Peptide Dual Modulators for Treatment of Hypertension and End-Organ Protection
99	Dr. Ritu Varshney	Healthcare Biotechnology	Development of a Stable Isogenic Cell-Based Platform for Functional and Translational Autophagy Research in Health and Disease
100	Dr. Pranati Sar	Healthcare Biotechnology	Decoding Parasitic Effector Protein–Driven Immuno-Epigenetic Networks in Malaria: From Pathogenesis to Translational Protection Strategies
101	Dr. Parul Srivastava	Healthcare Biotechnology	Multifunctional Nano-Bacteriocin Delivery Systems for Combating Antimicrobial Resistance: A One Health Approach Integrating Clinical, Veterinary and Environmental Applications
102	Dr. Kapil Kumar	Healthcare Biotechnology	Genomic Signature Analysis of Human Body Tissues and Biological Fluids from Indian Forensic Investigations Perspective
103	Dr. Ravindra Pal Singh, Prof. Dr. Krishna Mohan Poluri	Healthcare Biotechnology	Development of inhibitors against FMO 3 and TMA lyases that involved in progression of atherosclerosis
104	Dr. Mukesh Dhanka	Healthcare Biotechnology	Self-Regulating Hydrogel for Joint-Specific Enzymatic Uric Acid Depletion and Antioxidant Protection in Gout Management
105	Dr. Kshipra Chauhan	Healthcare Biotechnology	TickDiv: AI Integrated Indigenous Database for Tick Species Diversity
106	Dr. Vasudev R. Thakkar	Healthcare Biotechnology	Genome-Guided Selection and In-Vitro Validation of Medicinally Useful Postbiotics from Indigenously Isolated and Prescreened Probiotics
107	Dr. Arun Soni	Healthcare Biotechnology	Neurobehavioral Changes and Brain Oxidative Stress Induced by Acute and Chronic Exposure to 6G-Relevant Electromagnetic Radiation in Zebrafish (Danio rerio)
108	Dr. Dharmishtha R. Parmar	Healthcare Biotechnology	Design, Synthesis and Biological evaluation of some small molecules as AcrAB-TolC efflux pump inhibitors as an adjuvant therapy to treat Antimicrobial Resistant Infections
109	Dr. B. JEBASINGH	Healthcare Biotechnology	LIPOSOMAL ENCAPSULATION OF CHEMICAL EXCHANGE SATURATION TRANSFER (LIPOCEST) AGENTS WITH TARGETED DRUGS FOR THERANOSTIC IMAGING (MRI) APPLICATIONS: NANO FORMULATIONS, IN-VITRO RELAXIVITY EVALUATIONS

Sr. No	Name of PI	Broad Area	Project Title
110	Dr. Rahul Sinha	Healthcare Biotechnology	Development of vascular Silicone+Alumina based biomaterials for bone grafts treatement
111	Dr. Narayan Kumar	Healthcare Biotechnology	Systems Level Discovery and Functional Characterization of Postbiotic Molecules from Indigenous Probiotic Strains for Immunomodulation and Inflammation Control
Section B: Proposals under this section (Sr. No. 112 to 213) are pending for scrutiny			
112	Dr. N. Amaresan	Animal & Plant BIotechnology	Protist-bacteria-biochar interactions based ecological engineering for improving plant root architecture supporting efficient N- and P- supply: The development of a trio-formulation for climate resilient agriculture
113	Dr. Ashutosh Kumar	Animal & Plant BIotechnology	Proton Beam Irradiation as a Tool for Rice Seed Quality Improvement: Transcriptome reprogramming of Germination and Seedling Growth
114	Dr. Aakanksha Wany	Animal & Plant BIotechnology	Molecular mechanisms behind plant immunity mediated by Pseudomonas-Tomato- Trichoderma tripartite interactions
115	Dr. Shiv Kant Shukla	Animal & Plant BIotechnology	Investigation of synergistic propagation model using tuber bearing medicinal plant Asparagus racemosus in association with medicinal mushroom and AMF for bio-prospecting
116	Dr. Sneha Macwana	Animal & Plant BIotechnology	Molecular Marker–Assisted Identification and Development of Fusarium Wilt–Resistant Pigeonpea (Cajanus cajun (L.) Millsp.)
117	Dr. Subramanian Sankaranarayanan Dr. Sangram Lenka	Animal & Plant BIotechnology	Multiplexed CRISPR-Cas9–Based Genome Editing for Concurrent Enhancement of Yield Components (Seed Size and Number) and Oil Quality in Brassica juncea.
118	Anamika Jha	Animal & Plant BIotechnology	Design and Formulation of an Affordable, Food-Grade nanobiopreservative for alleviating Postharvest Loss in Sapota
119	Prof. Sudhir Pratap Singh Dr. Ravindra Pal Singh Prof. Kashyap Kumar Dubey	Animal & Plant BIotechnology	From Fruit to Clarity: Developing a Local Enzymatic Solution for Juice Processing
120	Dr. Chitra Bhattacharya	Animal & Plant BIotechnology	Waste-to-Wealth: Optimizing Regional Agro-Residues for Water-Efficient, Fast-Growing, Cost-effective Approach of Oyster Mushroom (Pleurotus ostreatus) Cultivation in Saurashtra Region
121	Dr. Mangal Singh Rathore	Animal & Plant BIotechnology	Development of a Cell and Callus Culture Regeneration Based Breeding Pipeline for Genetic Diversification and Germplasm Improvement in agarose yielding Gracilaria dura
122	Dr. Sanjay Jha	Animal & Plant BIotechnology	Genome Editing of Finger Millet (Eleusine coracana) for Enhanced Heat Tolerance through Targeted Disruption of Negative Stress Regulators (EcOsRHS and EcProDH)
123	Dr. Rukam Singh Tomar	Animal & Plant BIotechnology	Development of Biofortified 'Golden Groundnut' Using CRISPR Genome Editing Tool for Combating Malnutrition
124	Dr. Devjani Indranil Banerjee	Animal & Plant BIotechnology	CHEMICAL AND BIOLOGICAL EXPLORATION OF MARINE CNIDARIANS DERIVED METABOLITES: A MARINE BIOPROSPECTING INVESTIGATION FOR DRUG DISCOVERY.
125	Dr. Megha Barot	Animal & Plant BIotechnology	Development of indigenous phyco-remediation technology for growth of seaweeds for economically viable use in industry/ pollution control/ Agriculture application
126	Dr. Pritesh Bhatt	Animal & Plant BIotechnology	Metabolic Profiling and AI-Assisted Molecular Docking of Under-Explored Gujarat Seaweeds for the Discovery of Anti-Biofilm and Anti-Inflammatory Leads with Targeted Validation
127	Dr. Nitin Kumar Singh	Animal & Plant Biotechnology	Development and Demonstration of a PVA-Gel Media Assisted IFAS System for Blue Economy-Compliant Treatment of Seafood Processing Wastewater in Coastal Gujarat
128	Dr. Gaurav Sanghvi	Animal & Plant Biotechnology	Enzymatic Enhancement of Nutrient Bioaccessibility for Effective Food Fortification
129	Prof. Kiransinh N. Rajput	Animal & Plant Biotechnology	Development of bacterial indole-3-acetic acid nanoformulations and their molecular impact on plant growth regulation
130	Dr. Sameer V Dalvi	Animal & Plant Biotechnology	Microbubble-Mediated Sustainable Crop Enhancement: Integrated ROS, Phytohormone and Transcriptomic Analysis in Mustard, Chickpea and Spinach
131	Dr. CHINTAN KAPADIA	Animal & Plant Biotechnology	Development of novel nano-carrier formulation for efficient delivery of nucleic acid in plants
132	Dr. Santlal J. Jaiswar	Animal & Plant Biotechnology	Elucidation of bio-effector mediated functional traits in agarophytes to ascertain sustained growth-enhancement effects
133	Dr. Nisha Singh	Animal & Plant Biotechnology	Genome-Wide Association Mapping of Phosphorus Use Efficiency Traits in Pigeon Pea (Cajanus cajan L.)
134	Dr. Vaibhav A Mantri	Animal & Plant Biotechnology	Continuous Light-Driven Metabolomic Shifts in Edible Green Seaweed Ulva: Insights for Sustainable Bio-Based Feedstock Development
135	Dr Anjana J	Animal & Plant Biotechnology	NUTR-AYUR FORTIFY: Biotechnological Enhancement of Micronutrient and Bioactive Content in Staple Grains using Ayurvedic Phytochemicals

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136	Dr. Waquar Akhter Ansari	Animal & Plant Biotechnology	Multiplex CRISPR/Cas9 mediated genome editing to improve the oil ratio of omega 3 fatty acid in groundnut for health benefit
137	Dr. Manish Kumar Suthar	Animal & Plant Biotechnology	Integrated Molecular, Phytochemical, and Transcriptomic Approach for Authentication and Quality Evaluation of Threatened Commiphora Species.
138	Dr. Jitendriya Panigrahi	Animal & Plant Biotechnology	Comparative Toxicogenomic Profiling of Multiple Ulva Species Using Caenorhabditis elegans as an in vivo Model: Validating Ulva-Based technologies for functional food applications
139	Dr. Renuka V	Animal & Plant Biotechnology	Development and Characterization of Clitoria ternatea-Fortified Rice for Controlled Starch Digestibility
140	Dr. Vaibhav A Mantri	Animal & Plant Biotechnology	Multilocational cultivation trial and agar characterization of microclonal propagules of industrially important red seaweed Gracilaria dura in Gujarat for niche domain applications.
141	Dr. Preetam Joshi	Animal & Plant Biotechnology	Development of a PGPM-Based Biopriming Strategy for Improving Ex vitro Establishment of Tissue-Cultured Banana Plantlets
142	Dr. Tisha Vyas	Animal & Plant Biotechnology	Reprogramming Plant Development through Wounding for Next-Generation In Planta Gene Editing
143	Dr. Kiran S. Chudasama	Animal & Plant Biotechnology	An Integrated Omics Approach for Early Detection, Diagnosis, and Management of Fungal Diseases in Chilli
144	Dr. Pooja C. Desai	Animal & Plant Biotechnology	Microbial and Metagenomic studies on Combinatorial effect of Cow Dung and Fulvic acid along with growth stages on the diverse endophytic bacterial community of Stevia rebaudiana Bertoni leaves
145	Dr. Chandrashekar Mootapally	Animal & Plant Biotechnology	Sea Cucumbers as Reservoirs of Agro-Industrially Important Genes: Bioprospecting the Gut Microbiota across the Gujarat Coastline
146	Dr. Ritika Jain	Animal & Plant Biotechnology	Effect of simulated microgravity on plant growth promoting rhizobacteria and their role in space agriculture
147	Dr. Arunkumar C. Patel	Animal & Plant Biotechnology	Development and validation of multiplex qPCR for bovine abortifacient pathogens
148	Dr. Vishal S Suthar	Animal & Plant Biotechnology	Probiotic Consortia for Prevention and Treatment of Bovine Endometritis: Comparative Efficacy of Reproductive Tract-Derived Niche Consortia vs Commercial Strain Consortia
149	Dr. Naveen Katoch	Animal & Plant Biotechnology	Molecular Diversity of Begomovirus associated with Chilli Leaf Curl Disease in Major Agro-Climatic Zones of Gujarat
150	Dr. Ravinayak Patlavath	Animal & Plant Biotechnology	Development of a Multi-Strain Biofertilizer for Enhancement of Pigeon pea productivity suitable for Geographical conditions of Gujarat.
151	Sunil Kumar Singh	Animal & Plant Biotechnology	Genetic modulation of tomato Metacaspase to enhance drought and heat tolerance.
152	Dr. Anjisha Maharshi	Animal & Plant Biotechnology	Development of Liposome- Mediated Mycoherbicide for the biological control of Water Hyacinth
153	Dr. Gaurav Shrimali	Animal & Plant Biotechnology	Transcriptomic and Metabolomic Insights into Brassinosteroid-Mediated Salinity Stress Responses in Arachis hypogaea L.
154	Dr. Sunil Kumar Singh	Animal & Plant Biotechnology	Efficient production of Human Transferrin in plant systems for therapeutic and biotechnological applications
155	Dr Rajesh Kumar Jha	Animal & Plant Biotechnology	Development of Salt and Drought Tolerant Biofertilizer Consortium for Sustainable Crop Production in Gujarat's Arid and Coastal Agriculture
156	Dr. Mohd Aamir	Animal & Plant Biotechnology	Development of a Modular Hypoxia-Responsive Promoter Testing Platform for bioengineering Flood resistant Crop Varieties
157	Dr. Mukund Chandra Thakur	Animal & Plant Biotechnology	Genetic Manipulation of Rhizobia for Better Uptake of Iron (III) – A Step Towards Better Biofertilizer
158	Dr. Raksha Bawankar	Animal & Plant Biotechnology	Molecular Approaches for Enhancing Growth and Stress Tolerance in Cotton Using a Novel SBPase Gene
159	Dr Mahendrapalsingh Rajput, Dr Ramesh K. Kothari	Animal & Plant Biotechnology	Exploring Culturable and Non-Culturable Endophytic Bacterial Diversity in Groundnut Root Nodules from Saurashtra Region to Promote Sustainable Agriculture
160	Dr. Ritesh Tandel	Animal & Plant Biotechnology	Enhancing sustainability in Natural shrimp farming through integrated filtration, biosolutions, and probiotic approaches
161	Dr. Ritesh Tandel	Animal & Plant Biotechnology	Integrated floating agriculture and shrimp culture in Rainwater fed ponds at Dandi village- Valsad
162	Dr. Ashish Warghane Dr. Rashmi Saini	Animal & Plant Biotechnology	Development and Characterization of a Polyherbal Nano formulation for the Management of Citrus Greening Disease (Huanglongbing)
163	Dr. Jyoti Tomar	Animal & Plant Biotechnology	Integrated biotechnological approach for sustainable mushroom cultivation and development of Nano - Enhanced Neutraceuticals
164	Dr. Mukesh Kher	Animal & Plant Biotechnology	Development and evaluation of novel herbal formulation as sustainable alternatives to antibiotics for the management of bovine mastitis and reduction of antimicrobial resistance

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165	Dr. Visha Rathod	Animal & Plant Biotechnology	Multi-Omics Characterization of Indigenous Fermented Natural Farming Inputs for the Development of Sustainable Biofertilizers
166	Dr. Sanjay Kumar	Animal & Plant Biotechnology	Gold nanoparticle decorated graphene oxide nano-sheets as an electrochemical aptasensor platform for the detection of malathion in processed foods
167	Dr. Viral Shukla, Dr. Vimal Ramani,	Animal & Plant Biotechnology	Development of a Nanotechnology enabled Herbal Nano-Gel for Antibiotic Residue Free Management of Bovine Mastitis.
168	Dr. Poonam Mishra	Animal & Plant Biotechnology	Heterologous Expression & functional validation of Antifungal Protein (Afp) of Aspergillus flavus for resistance against fungal pathogens in Maize
169	Dr. Bappi Paul	Deep Tech	Development of Nanomaterial-Based Electrochemical Biosensors for Rapid On-Site Detection of Illicit Drugs and Toxic Substances
170	Prof. Sivapriya Kirubakaran	Deep Tech	Development of Antibody Functionalized Gold Nanoparticles for Biosensing Microbes
171	Dr. Shailja Dhiman	Deep Tech	Development of a Salinity-Resilient Nano-Enabled Microbial Bioinput from Indigenous Halophiles for Sustainable Groundnut Production in Gujarat
172	Dr. Yogesh Meghrajani	Deep Tech	AI-Based Food Image Recognition for Dietary Assessment and Health Monitoring
173	Dr C. K. Sumesh Dr. Parikshit Sahatiya	Deep Tech	Smart Nanomaterial–Enabled Non-Enzymatic Biosensor for Early Detection and Real time Monitoring of Metabolic Syndrome
174	Dr. Hemant P. Soni	Deep Tech	From Ligand to Image: Engineering Gd-Free Dual-Mode MRI Contrast Nanomaterials
175	Saumyakanti Khatua	Deep Tech	Development of a Plasmonic Optical Platform for Rapid Point-of-Care Detection of Biomarker for Traumatic Brain Injury
176	Dr. Ankit Sudhir	Deep Tech	Engineering β-Glucosidase from Paenibacillus polymyxa for Enhanced Catalytic Activity
177	Dr Rahul Kumar	Deep Tech	Development of AI-Integrated, Bio-Inspired 2D Material-Based Sensor System for Non-Invasive Asthma Diagnosis through Breath Analysis
178	Dr. PL. Ramkumar	Deep Tech	Polymer-Based Biomaterials with Enhanced Thermal Conductivity for Biosensing Applications
179	Dr. Suveen Kumar	Deep Tech	Development of a Point-of-Care Electrochemical Aptasensor for Influenza Diagnosis
180	Dr. Dweipayan Goswami	Deep Tech	Developing a Synthetic Microbial Consortium for the Integrated Synthesis of Genetically Tuned Bacterial Cellulose and Functional Probiotic Beverages
181	Dr. Roshni Kumari	Deep Tech	Climate-Driven Vector Borne Disease Monitoring in Gujarat: Device Fabrication and Epidemiological modelling
182	Dr. Priyanka Makkar	Deep Tech	MXene-Grafted Viologen Polymer Brushes for Mechano-redox-Enabled, Self-Healing Electrodes in Next-Generation Self-Powered Implantable Cardioverter Defibrillators (ICDs)
183	Dr. Vaibhav Bhatt, Ms. Pooja Chavda, Dr Gaurav Shrimali, Mr. Shreyas Dhuliya	Deep Tech	Development of Human Lactoferrin Using Precision Fermentation Technology
184	Rohil Jain	Deep Tech	Microfluidics-enabled smart machine perfusion device for ex vivo storage of organs for transplantation
185	Dr. Anubhav Tiwari	Deep Tech	Antibacterial Activity and Osseointegration of Morphology-Varying 3DPrinted Titanium and Hydroxyapatite Implants
186	Dr. Partha Pratim Roy	Deep Tech	Selective Metal-ion Bio-sensing via Controlled Excited-State Processes in Green-Synthesized Carbon Quantum Dots
187	Sharmistha Majumdar	Deep Tech	Development of a novel low-cost peptide-based pull-down platform to investigate biomolecular interactions
188	Dr. Rohan Bhimpuria	Deep Tech	Design and Development of Quantum-confined Carbon Dots as Ratiometric Sensors for The Detection of Acetylcholinesterase and Organophosphate Neurotoxins in Biological Fluids
189	Dr. Gayatri Dave	Deep Tech	Biogenic Silicon quantum dots (SiQDs) from diatom frustules: properties and feasibility analysis
190	Dr. Archana R. Deokar	Deep Tech	Artificial Intelligence-Assisted Development of Sonochemical Metal Oxide Nanocoatings to Prevent Biofilm-Associated Antimicrobial Resistance in Spaceflight Systems
191	Dr. Biplab Kr Chatterjee	Deep Tech	Development of magnetic nanoparticle-based T1 and T2 contrast agents for efficient magnetic resonance imaging.
192	Dr. Kirtan Dave	Deep Tech	CARDIO-AI-RISK: An AI-Driven, Biology-Informed Platform for Prediction of Residual Cardiovascular Disease and Heart Failure Risk
193	Dr. Arvind Kumar Saxena	Deep Tech	Development of selective DNA collection swabs using ligand-free gold nanoparticles generated by femtosecond laser ablation

Sr. No	Name of PI	Broad Area	Project Title
194	Dr. Anup V. Sanchela	Deep tech	Development of a Modular Transdermal Flexible Heating Patch for Controlled Drug Delivery
195	Dr. Sanjay Mohan Jha Dr. Vaibhavkumar Nandkishor Mehta Dr. Suresh Kumar Kailasa	Deep tech	Development of Portable Quantum Dot–Based Optical and Electrochemical Sensors for On-Site Detection of Fungal Infections in Agricultural Crops
196	Dr. Hemant Kumar	Deep Tech	A Nanozyme–Exosome Platform to Regulate Oxidative and Inflammatory Secondary Damage Following Spinal Cord Injury
197	Dr. Jagdishchandra K. Monpara	Deep Tech	Integrative Chloroplast Genome-Based Authentication and Network Pharmacology of Avipattikar Churna for Digestive Disorder Management
198	Krishna Kanti Dey	Deep tech	Dynamics of Liposomal Nanocarriers under Enzyme-Regulated Active Fluctuations for Enhanced Drug Transport Across Biological Barriers
199	Dr. Kalpesh B. Panara	Deep tech	Bioinformatics-Guided Evaluation and Validation of Ayurvedic Phytochemicals for Transdermal Drug Delivery in Insomnia
200	Dr. Niyati Acharya	Deep Tech	Bioinformatics-driven Identification of Anti-Urolithiatic Phytoconstituents in Rubiaceae for Ayurceutical Development
201	Dr. Krupa Shah	Deep Tech	CT–PET Guided Robotic Biopsy System for Multimodal Imaging Based Teleoperation
202	Janki K. Patel	Deep Tech	Exploration of Endophytic Bacteria from Embelia ribes (Vidanga) for Enhanced Production of Bioactive Secondary Metabolites
203	Dr. Ahsan Zaigam Rizvi	Deep Tech	An Integrated Deep Kernel Learning Framework for Multi-Omics Regulatory Networks
204	Dr. Sachidanand Singh	Deep Tech	AI-Enabled Rational Design and Immunological Evaluation of Receptor-Targeted Liposomal Vaccines Disrupting the IrtAB-Mediated Iron Acquisition Axis in Mycobacterium tuberculosis
205	Dr. Kavita Yadav	Deep Tech	Engineering Cupriavidus necator as a Microbial Platform for Sustainable Biomanufacturing of Sandalwood Oil
206	Dr. Debjani Bagchi	Deep Tech	Development and Validation of Quantum Dot-Based Sensing Approach for Rapid Detection of microRNAs as Prominent Biomarkers for Early Prognosis of Neurological Disorders in Healthcare
207	Dr. Vijay Jagdish Upadhye	Environmental Biotechnology	From Contamination to Innovation: Mining Lipase-Producing Bacteria for High-Efficiency Bio- Detergent Development
208	Dr. Mohammed Abdul Rasheed Dr. Haidar Abbas Dr Duggirala Srinivas Murty	Environmental Biotechnology	Development of Bacterial Consortium and improving process for enhancing Biogas Production from Napier grass and its scale up
209	Dr. Sapna Chandwani	Environmental Biotechnology	Bioremediation and biofortification of micronutrients in rice grains from micronutrient contaminated field soils through the application of siderophore producing synthetic microbial communities (SynComs)
210	Dr. Ankitkumar Jagdishbhai Patel	Environmental Biotechnology	Development of Green, Biodegradable Antimicrobial Coatings from Ricinoleic Acid for Infection-Resistant Medical Devices
211	Dr. Bhavtosh A. Kikani, Dr. Chirayu Desai	Environmental Biotechnology	Integrated photoautotrophic microbial biorefinery for carbohydrate-rich food wastewater treatment and biomass valorization into high value bioproducts using a circular economy approach
212	Dr. Vaibhav R. Pawar (Resubmitted)	Environmental Biotechnology	Microbial soil-improvement for expansive subgrades
213	Dr. Mukul Jain	Healthcare Biotechnology	Investigating Long COVID-associated blood-based protein signatures as risk factors for brain health decline and dementia in adults of Gujarat
Section C: Proposals under this section (Sr. No. 214 to 255) pertain to cancer research and shall be taken up after Cancer Research Consultation meeting			
214	Dr. Bharatkumar B. Parekh	Healthcare Biotechnology	Label-Free Optical Bio-Sensing for Early Cancer Diagnosis Using Laser-Based Nonlinear Z-Scan Technique
215	Prof. Hitesh D Pate	Healthcare Biotechnology	Lead optimization and Development of anticancer agents Targeting the folate metabolic pathway
216	Dr Prakash Chandra	Healthcare Biotechnology	Persistent Luminescence Nanomaterials for Early Oral Cancer Diagnosis
217	Dr. Neeru Singh	Healthcare Biotechnology	Development of a mir-483-5p antagomir therapy to restore Olaparib sensitivity in BRCA1-deficient ovarian cancer
218	Dr. Pankaj Yadav	Healthcare Biotechnology	Mango plant-derived carbon dots for lateral flow assay prostate cancer diagnosis device
219	Dr. Drishti Panjwani	Healthcare Biotechnology	ROR1-Targeted STING Immune-Stimulating Antibody Conjugates for Dual Tumor-Intrinsic and Immune-Mediated Therapeutics
220	Prof. Keshri Nath Tiwari	Healthcare Biotechnology	New Pyridothiazole Based AIE/AIEE Dyes for Extended Duration Cancer Cell Imaging and Tracking

Sr. No	Name of PI	Broad Area	Project Title
221	Dr. Chirag Patel	Healthcare Biotechnology	Metagenomic Evaluation of Fecal Microbiota and Antimicrobial Resistance Gene Profiling in Cancer Patients at a Tertiary Care Hospital in Gujarat: A Longitudinal Study
222	Dr. Sarat Kumar Dalai (Resubmitted)	Healthcare Biotechnology	Development of a Safer Human Interleukin-12 Variant as a Promising Anti-Cancer Therapeutic
223	Dr. Meghna H Seta	Healthcare Biotechnology	Design, Synthesis and In-Silico Evaluation of Hypoxia-Activated Prodrugs Targeting HIF-1α for Cancer Therapy
224	Iti Gupta	Healthcare Biotechnology	Autophagy Inhibitors Linked Porphyrins: Combined Sonodynamic and Photodynamic Ploy to Treat Oral Cancer
225	Dr. Mayurbhai Sahani	Healthcare Biotechnology	Investigation of the role of FKBP1A in tumorigenesis through mTORC1
226	Dr. Tarun Kumar Upadhyay	Healthcare Biotechnology	Integrative Multi-omics Analysis and Mechanistic Dissection of Dysregulated Microbial Metabolites Driving Cancer-Associated Cachexia in Oral Squamous Cell Carcinoma
227	Karla P. Mercado-Shekhar	Healthcare Biotechnology	Ultrasound molecular imaging and targeted peptide and ashwagandha delivery for breast cancer theranostics using perfluorocarbon nanodroplets
228	Dr. Giftson J Senapathy	Healthcare Biotechnology	Development and Targeted Evaluation of Natural Photosensitisers for Photodynamic Therapy of Oral Squamous Cell Carcinoma Using 3D Tumor Spheroid Models
229	Dr. Nidarshana Chaturvedi Parashar	Healthcare Biotechnology	Serum cytidine deaminase activity as a determinant of gemcitabine metabolizer phenotypes in Indian cancer patients
230	Dr. Darshee Baxi	Healthcare Biotechnology	Clinical Validation and performance evaluation of In-house HPV-HR High Risk Genotyping Assay for future Cervical Cancer Screening applications in India
231	Dr. Neeraj Jain	Healthcare Biotechnolog	Evaluating the efficacy of magnetic fluid hyperthermia on mammary tumor regression in Rat models for cancer treatment
232	Dr. Amitsinh Vijaysinh Mangrola	Healthcare Biotechnology	Development and Systems-Level Characterization of Panchagavya-Based Fermented Polyherbal Formulations for Enhanced Anticancer Activity Against Oral and Colorectal Cancers
233	Dr. Vaishali Thakkar	Healthcare Biotechnolog	Development of a Novel Lymphatic Drug Delivery Approach Using a Synergistic Nanotherapeutic System to Target Mitosis and Chemoresistance in Lymphatic Cancer
234	Dr. Darshan Dhakan	Healthcare Biotechnology	Solving the complex host-microbiome puzzle in colorectal cancer using multiomic approaches
235	Dr. Snehal Patel	Healthcare Biotechnology	Discovering novel Phosphoglycerate Dehydrogenase inhibitor: A Novel Approach to Overcome Stemness, metastasis and Chemoresistance in Triple-Negative Breast Cancer.
236	Dr. Tejal Mehta	Healthcare Biotechnology	Generative AI-Driven Design & Development of Tumor Microenvironment Responsive Nanoparticles for EGFR-Targeted Oral Cancer Therapy.
237	Dr. Shruti Patel	Healthcare Biotechnology	HER2-Targeted Bio-inspired Exosome containing ELP Nanohybrids for Long-Acting Delivery of SN-38 for the treatment of Triple Negative Breast Cancer
238	Dr Amit Mandoli Prof. Sanjeev Galande	Healthcare Biotechnology	High-Resolution Spatial Transcriptomic Profiling of Oral Squamous Cell Carcinoma for mapping Tumor Heterogeneity and Discover Novel Therapeutic Targets for Precision Medicine
239	Dr. Tarang Patel Dr. Ishan Raval	Healthcare Biotechnology	Integrated Transcriptomic and Immunohistochemical (β-Catenin and HIF-1α) analysis of Oral Potentially Malignant Disorders (OPMD) and Oral Squamous Cell Carcinoma (OSCC) in an Indian Cohort from the Saurashtra Region
240	Dr. Hardik Bhatt	Healthcare Biotechnology	Preclinical Development of a Lead Acridine Derivatives Inhibiting Telomerase to Treat Lung Cancer
241	Dr. Prabal Sengupta	Healthcare Biotechnology	Design, Synthesis and Evaluation of GCNT3 Inhibitors for Pancreatic Ductal Adenocarcinoma (PDAC)
242	Dr. Tejas M. Dhameliya	Healthcare Biotechnology	Design and Development of Substituted Imidazoles as Topoisomerase I Inhibitor as Novel Anti-cancer Agents against Breast Cancer
243	Dr. Kaid Johar SR	Healthcare Biotechnology	Identification and evaluation of anti-fibrotic molecules for the prevention of metastatic ovarian cancer
244	Dr. Reena Rajput	Healthcare Biotechnology	Macrophage-targeted Non-viral Chimeric-antigen Receptor (CAR) Plasmid DNA Delivery for in situ Cellular Reprogramming: Generating and Expanding in vivo CAR-Macrophages (CAR-M) for Enhanced Efficacy Against Triple-negative Breast Cancer (TNBC).
245	Dr. Sanjay Saxena	Healthcare Biotechnology	NeuroCausalScope: An Open-Source Explainable AI Platform for Decoding Hidden Brain Cancer Signals Outside the Tumor
246	Dr. Manish Vyas	Deep Tech	Novel Ayurvedic Bioactive Compound Based Self Nano Emulsifying Drug Delivery System: A Natural Preclinical Therapeutic Solution for the Treatment and Management of Breast Cancer

Sr. No	Name of PI	Broad Area	Project Title
247	Prof. Sudipta Basu	Healthcare Biotechnology	Gold Nanorod-Mediated Impairment of Endoplasmic Reticulum (ER) in Cancer for Chemo-Photothermal Therapy
248	Dr. Amit Kumar Pandey	Healthcare Biotechnology	Mechanistic Elucidation of Exosomal Long Non-Coding RNA in Pathogenesis of Pancreatic Cancer
249	Dr. Naga Chaitanya Kavuri	Healthcare Biotechnology	Development and Validation of an Indian Histopathology Image Database for AI-Assisted Early Detection of Oral Cancer
250	Dr. Dinesh Kumar	Healthcare Biotechnology	Discovery and Development of Bipyridine-Based Chemotypes for Oral Cancer Therapeutics
251	Dr. Rajesh K. Patel	Healthcare Biotechnology	Laboratory-Scale Development and Validation of Tobacco Farm–Derived Microbial Biotransformation of Cereal Germs for Anti-Cancer Nutraceuticals
252	Dr. Swayamprakash K. Patel	Deep tech	Integrating ESM-2 Protein Representations with FiLM-CVAE for AI-Driven Precision Drug Discovery for Breast Cancer
253	Dr. Moutusi Manna	Animal & Plant Biotechnology	Exploring the anticancer potential of phytosterols from marine algae and their mechanisms at molecular level
254	Dr Prabhat Upadhyay	Healthcare Biotechnology	Photobiomodulation Promotes a Virtuous Cycle in Tobacco-Induced Oral Dysbiosis to Attenuate Leukoplakia Progression
255	Prof. Venkata Sriram Kanvah Gundimeda	Healthcare Biotechnology	Targeted Detection of Estrogen Receptor–Positive Breast Cancer Using Fluorescent Probes
Section D: Proposals under this section (Sr. No. 256 to 259) are not eligible as per Research Support Scheme Guidelines			
256	Dr. Tintu Jose Manicketh	Healthcare Biotechnology	A Cost-Effective Bioactive Plant Dye: Stabilization, Functionalization, and Evaluation of Antioxidant, Anti-Inflammatory, Antimicrobial, and Anticancer Activities
257	Dr. M.Monisha	Healthcare Biotechnology	Design and Development of a Multiplexed Peptide-Based Portable Electrochemical Nanobiosensor for Detection of Potential Biomarkers in Oral Carcinoma
258	Dr. S. P. Suriyaraj	Environmental Biotechnology	Sustainable Development of Biodegradable Medical Sutures from Water Hyacinth Stem Fibers for Affordable Healthcare Applications
259	Dr. Deepak Singh	Healthcare Biotechnology	An Intelligent Multi-Omics–Driven Framework for Diabetes Risk Prediction, Complication Forecasting, Symptom Characterization, and Therapy Decision Support