

Research Projects at PDPIAS

Sr. No.	Name of the Scheme/Project/ Endowments/ Chairs	Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding agency	Type (Government/ Non-Government)	Year of Award	Duration of the project (Years)
1	To evaluate the in-vitro hyperthermic effects of magnetic fluid on cancer cells	Dr. Neeraj Jain/Dr. kinnari parekh	ICMR, New Delhi	Govt	2021	3
2	Financial sanction under Teachers Associateship For Research Excellence (TARE)	Dr. Abhishek Dadhania	SERB, DST, New Delhi	Govt	2019	3
3	GIS-based mapping of microbial diversity across the Ganges for Ecosystem services	Dr. Datta Madamwar	National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation, New Delhi	Govt	2019	2
4	Design and development of prototype shock absorber/isolator using magneto rheological dampers	Dr. R V Upadhyay	Lubgraf Synoil Pvt. Ltd., Ahmedabad Industry (Research expenditure/facility provided by the Industry)	Non-Govt	2017	3
5	Application of microaerophilic-aerobic bioreactor system in treating real textile effluents and metagenomic analyses of microbial community dynamics	Dr. Chirayu Desai	SERB, DST, New Delhi	Govt	2,016	3

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7	Insilico identification of adsorbed material for complete separation of C5-C7 alkane isomers: an attempt towards upgradation of octane number of petrol/gasoline	Dr. Bhaskarjyoti Borah	SERB, DST, New Delhi	Govt	2016	3
8	Insilico identification of adsorbed material for complete separation of C5-C7 alkane isomers: an attempt towards upgradation of octane number of petrol/gasoline	Dr. Bhaskarjyoti Borah	SERB, DST, New Delhi	Govt	2016	3
9	To prepare and test tunable magnetic fluid diffraction grating	Dr. Rucha Desai	SERB, DST, New Delhi	Govt	2017	3
10	Integrated eco-electrogenic system for efficient and sustainable treatment of textile wastewater	Dr. Chirayu Desai	Department of Biotechnology, New Delhi	Govt	2017	3
11	Construction of putative hydroxycitric acid (HCA) biosynthetic pathway in Bacillus and engineering Escherichia coli for HCA production by heterologous expression of artificial putative HCA biosynthetic operon	Dr Aditi Buch	SERB, DST, New Delhi	Govt	2017	3
12	To engineer and develop suitable magnetic fluid for the induction heating based therapeutic strategy against cancer	Dr. Kinnari Parekh	SERB, DST, New Delhi	Govt	2017	3

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14	Development of thin film solar cells with low-cost earth-abundant materials by Inkjet Printing	Dr. Anjana Kothari	Sceince and Engineering Research Board (SERB), DST, New Delhi	Govt	2017	3
15	Ferro Fluids : Science Technology Applications	Dr. R. V. Upadhyay Co-PI: Dr. Kinnari Parekh , Dr. Rucha Desai	TDP, Department of Science & Technology, New Delhi	Govt	2,012	3
16	Identification of hydroxycitric acid (HCA) producing bacteria and probing its HCA biosynthetic mechanisms	Dr.(Ms.) Aditi D. Buch	SERB, DST, New Delhi	Govt	2,012	3
17	Rare sugar production using isomerases and epimerase	Dr. Darshan Patel Co-Pi : Dr. R. B. Subramaniam	Department of Biotechnology, New Delhi	Govt	2,013	3
18	Development of bio-inoculants based on the marine bacterial isolate Pseudomonas sp. OG101 for growth promotion and management of pathogenic Fusarium in plants	Dr. Janki Thakker	DBT, New Delhi	Govt	2016	3
19	Eco-friendly textile effluent treatment coupled to bioelectricity generation using Microbial Fuel Cell (MFC) technology (DST-INSPIRE)	Dr. Hilor Pathak	Department of Science and Technology	Govt	2014	5
20	Development of solution-Based Zn nanostructures as light harvesters for low-cost solar photovoltaics	Dr. Anjana Kothari	GUJCOST, Gandhinagar, Gujarat	Govt	2016	3

21	To study Anti-cancer effects of Phosphonium ionic liquids on HPV positive and negative cervical cancer cell lines	Dr. Neeraj Jain	GUJCOST, Gandhinagar, Gujarat	Govt	2014	3
22	Carotenoids from Marine Microbes: Extraction, Purification and Applications	Dr. Janki Thakker	GUJCOST, Gandhinagar	Govt	2014	3
23	Elastin Like Polypeptide (ELP) Tagged Amylase and Xyloselomerases: Alternative Purification and Immobilization Technology	Dr. Darshan Patel Co-PI : Dr. Jagdish Patel	Department of Biotechnology, New Delhi	Govt	2013	3
24	Implication of P glycoprotein modulation by phytochemicals to increase bioavailability of drug in hyperglycemic stress	Dr. Jagdish Patel	SERB, Department of Science & Technology, new Delhi	Govt	2013	3
25	Formulation of a Unique Magnetic Nanoparticles based DNA, RNA and Protein Extraction Kit	Dr. C. N. Ramchand Co PI: Dr. Rucha Desai & Dr. Hilor Pathak	Gujarat Council of Science & Technology (GUJCOST), Gandhinagar	Govt	2013	3
26	Studies on electrical and photoelectronic properties of PbS/polymer nanocomposites	Prof. T. K. Chaudhuri	UGC-DAE Consortium for Scientific Research, Indore	Govt	2014	2
27	Inkjet printing of Inorganic thin films for solar photovoltaics	Prof. T. K. Chaudhuri (PI) /Dr. Anjana Kothari(Co-PI)	Solar Energy Research Initiatives (SERI), DST	Govt	2011	3
28	Thermal conductivity of nanofluids: Potential application in Heat transfer devices	Dr. Kinnari Parekh (PI)	GUJCOST, Gujarat	Govt	2013	3

29	Supramolecular hydrogels an efficient carrier for sustained/targeted delivery of biomedical polyoxometalates	Dr.Sachin Joshi (PI)	Fast Track Scheme - DST	Govt	2012	3
30	Role of adipose in ethanol-induced tissue injury	Dr. Palash Mandal	SERB, DST, New Delhi	Govt	2013	3
31	Development of magnetorheological fluids for damper applications	Dr. R. V. Upadhyay	Industrial Metal Powders(I) Pvt.Ltd, Gat No-699/1, Koregaon Bhima, Behind Kalyani Forge, Tal-Shirur, Dist-Pune 412216	Industry	2015	