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3.2.4 DEPARTMENTAL RESEARCH PROJECTS

(Funded by Government and Non-Government Agencies)

Sl. no.	Department of Principal Investigator/ Co Investigator	Title of the project	Name of the Principal Investigator/ Co Investigator (if applicable)	Year of award	Funds provided (INR in lakhs)	Name and link to Funding agency
1	PG Dept. of Biotechnology	Synergistic effect of phytochemicals derived from Calotropis species on proliferation of human solid tumor representative cell lines	Dr. Shiney Peter	2020	0.70	University of Mumbai https://mu.ac.in/apd-section
2	PG Dept. of Biotechnology	Optimization of Polyhydroxy-3-Butyrate (PHB) by modulating Biochemical Pathways	Ms. Norine D'Souza	2020	0.70	University of Mumbai https://mu.ac.in/apd-section
3	Dept. of Mass Media	Identification of skill set landscape in undergraduate students from Mumbai city colleges to increase employability in the field of Digital Marketing.	Ms. Periyanyagi S. P.	2020	0.25	University of Mumbai https://mu.ac.in/apd-section



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4	Botany	Revision of the genus <i>Dactyloctenium</i> and discourse on the dubious occurrence of <i>Dactyloctenium scindicum</i> Boiss. from Maharashtra	Mr. Alok Gude	2020	0.30	University of Mumbai https://mu.ac.in/apd-section
5	Botany	Taxonomic studies of Genus <i>Zingiber</i> from Northern Western Ghats	Dr. Vijaya Lobo	2020	0.35	University of Mumbai https://mu.ac.in/apd-section
6	Caius Research Laboratory	Strain improvement for penicillin G amidase production	Dr. Priya Sundarrajan	2018	0.885	Biolaxi corporation pvt. ltd. https://www.biolaxi.in/
7	Caius Research Laboratory	Improvement of Sanatalene Synthase Activity	Dr. Priya Sundarrajan	2016	3.85	Harmony organics http://www.harmonyorganics.in/
8	Chemistry	Carbon Quantum Dots: Fluorescent probes for metal ion detection and efficient photocatalysts	Dr. Ashma Aggarwal	2020	0.50	University of Mumbai https://mu.ac.in/apd-section



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9	Chemistry	Size selectivity and stability of bio-synthesized silver nanoparticles using surfactants for antimicrobial use.	Mr. Marazban Kotwal	2017	2.05	UGC Minor https://www.ugc.ac.in/
10	Chemistry	Development and Validation of New Analytical Methods for Antibiotic Agents from Dosage Form Using different Analytical Techniques	Dr. Pralhad Rege	2017	0.25	University of Mumbai https://mu.ac.in/apd-section
11	Chemistry	Doped transition metal oxide nanoparticles: Morphological Impact on Toxicity and Applications' under	Dr. Ashma Aggarwal	2017	0.30	University of Mumbai https://mu.ac.in/apd-section
12	Economics	An Economic Appraisal of the GIS Technologies for Cotton Growers in Distress Regions of Maharashtra with Special Reference to Yawatmal and Amaravati	Dr Aditi Sawant	2020	0.40	University of Mumbai https://mu.ac.in/apd-section



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13	Economics	New trends in Inflation control policies in India: Issues and prospects	Ms. Aparna Kulkarni	2019	0.25	University of Mumbai https://mu.ac.in/apd-section
14	Economics	India's Competitiveness in Cotton Production	Dr. Aditi Sawant	2015	12.30	UGC Major https://www.ugc.ac.in/
15	Geology	Morphometric analysis and Hydrogeological investigation of a sub-watershed of Vaitarana River, Palghar District, Maharashtra.	Dr. Bobby Mathew	2019	0.65	University of Mumbai https://mu.ac.in/apd-section
16	Geology	Mapping and Spatial analysis of Petroglyphs in Ratnagiri District of Maharashtra.	Dr. Hrishikesh Samant	2019	0.80	University of Mumbai https://mu.ac.in/apd-section
17	Geology	Petrography and Geochemical investigation of Gabbro Pluton in and around Kunkeri Mangaon area, Sindhudurga District, Maharashtra	Mr. John Dsouza	2018	0.70	University of Mumbai https://mu.ac.in/apd-section



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18	Geology	Petrography and Geochemistry of Mangaon Pluton in and around Mangaon-Sawantwadi area, Sindhudurg District, Maharashtra, India.	Dr. Goutam Bandhyopadhyay	2017	0.38	University of Mumbai https://mu.ac.in/apd-section
19	Geology	Groundwater resource estimation of Elephanta Island, Mumbai	Dr. Bobby Mathew	2016	0.25	University of Mumbai https://mu.ac.in/apd-section
20	Life Science and Biochemistry	A study on the effect of phytochemicals on longevity of <i>C. elegans</i>	Dr. Seema Das	2020	0.55	University of Mumbai https://mu.ac.in/apd-section
21	Life Science and Biochemistry	A Study of Zebrafish (<i>Danio rerio</i>) Larval Fin Regeneration under the Influence of Estradiol	Dr. Radhika Tendulkar	2020	0.50	University of Mumbai https://mu.ac.in/apd-section



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22	Life Science and Biochemistry	Greywater Treatment and Recycling Plant based on Electrocoagulation	Ms. Zubia Shaikh and Ms. Karishma Katpitia and Dr. Binoj Kutty (Faculty In-charge)	2019	3.13	US Consulate General, Mumbai and Ekconnect foundation https://in.usembassy.gov/e-embassy-consulates/mumbai/
23	Life Science and Biochemistry	Studies on Ethanol induced reactive oxygen species stress in yeast	Dr. Binoj Kutty	2019	0.40	University of Mumbai https://mu.ac.in/apd-section
24	Life Science and Biochemistry	Cloning of <i>Paenibacillus</i> 50-01 alkaline protease	Dr. Sangeeta Shetty	2019	0.40	University of Mumbai https://mu.ac.in/apd-section
25	Life Science and Biochemistry	Role of selenium in sperm function in <i>Danio rerio</i>	Dr. Manasi Kanuga	2019	0.40	University of Mumbai https://mu.ac.in/apd-section
26	Life Science and Biochemistry	<i>In vitro</i> Analysis of the Effect of Zinc Toxicity on the Nervous System	Dr. Bhaskar Saha	2018	0.75	University of Mumbai https://mu.ac.in/apd-section



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27	Life Science and Biochemistry	Synthesis of Silver Nanoparticles and their characterization	Dr. Priya Sundarrajan	2018	0.60	University of Mumbai https://mu.ac.in/apd-section
28	Life Science and Biochemistry	Mapping the microscopic biodiversity in select ecological niches of the Sanjay Gandhi National Park	Dr. Maya Murdeshwar and Sujata Deshpande	2018	8.00	DBT- Foldscope, Department of Biotechnology (DBT) http://foldscope.dbtindia.gov.in/
29	Life Science and Biochemistry	Effect of bioaccumulation of heavy metals on growth, oxidative stress and DNA damage in Zebra fish	Dr. Seema Das	2017	4.18	UGC Minor https://www.ugc.ac.in/
30	Life Science and Biochemistry	Isolation and screening for novel ethanol producers from various sources and their characterization	Dr. Priya Sundarrajan	2017	4.80	UGC Minor https://www.ugc.ac.in/



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31	Life Science and Biochemistry	Potential of soil microbes to inhibit biofilm formation in plant pathogens	Dr. Sangeeta Shetty	2016	0.28	University of Mumbai https://mu.ac.in/apd-section
32	Life Science and Biochemistry	Morphometric and electrophoretic evaluation of lead (Pb) toxicity in embryonic zebrafish.	Dr. Radhika Tendulkar	2016	0.26	University of Mumbai https://mu.ac.in/apd-section
33	Microbiology	Effect of Plant Growth Promoting Response on yield in hydroponics system	Ms. Sangeeta Chavan	2020	0.50	University of Mumbai https://mu.ac.in/apd-section
34	Microbiology	Repurposing of the over-the-counter drugs as antibacterial and anticancer agents	Dr. Karuna Gokarn	2019	0.35	University of Mumbai https://mu.ac.in/apd-section
35	Microbiology	Study of anticancer activity of wine prepared from banana	Dr. Pampi Chakraborty	2019	0.25	University of Mumbai https://mu.ac.in/apd-section



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36	Microbiology	Bacterial degradation of a wide-spectrum of azo dyes from industrial effluents into non-toxic products	Dr. Aparna Talekar	2019	0.25	University of Mumbai https://mu.ac.in/apd-section
37	Physics	Effect of silicon negative ion implantation in GaAs	Dr. Ajay Yadav	2017	0.25	University of Mumbai https://mu.ac.in/apd-section



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