

Department of Biotechnology

On-going Research Projects

Title	Investigator	Funding Agency	Amount in (Rs.)
Developing an extract of Sida cordifolia as a therapy for epilepsy	Dr K. Sundar	DBT	24.32 Lakhs
Evaluation of biocompatible collagen-chitosan-selenium nanoparticles (SeNPS) scaffold for cardiac tissue engineering applications in wistar rat	Dr A. Muthukumar	ICMR	18 Lakhs
Unraveling the role of carbon sources on biological activity of curdlan produced by novel marine bacteria	Dr. B. Vanavil	DST	25 Lakhs
Use of recombinant bacteriophage as a novel delivery vehicle for viral CTL epitopes	Dr K. Sundar	DST- SERB	45 Lakhs
A smart alginate–pectin–selenium nanoparticle scaffold and its applications in cardiac tissue engineering	Dr A. Muthukumar	DST- SERB	18 Lakhs
Unravelling the physiological mechanism of meditation mediated (PRANAHUTI) benefits on cardiovascular risk	Dr. Sankarganesh Arunachalam	DST– SATYAM	45 Lakhs
Elucidating the role of PPAR alpha in the development of doxorubicin-induced cardiomyopathy	Dr. Sankarganesh Arunachalam	DST- SERB	10 Lakhs
Biological Treatment of Hazardous Sludge from Petroleum Refinery Industry	Dr Naresh Kumar Sharma	Universiti Teknologi Petronas, Malaysia	17 Lakhs
Self-Sustaining Photo Bio-Catalytic Reactors with Concomitant Biofuel Harvesting from Crepe Cotton Wastewater	Dr Naresh Sharma	DST-TARE	15 Lakhs

Completed Projects

Title of the Project	Funding Agency	Project Cost (Rs.)
Efficacy of Biocontrol agents viz. Pseudomonas sp. and Trichoderma sp. and control of onion diseases	DST-Startup NIDHI	10 Lakhs
Beneficial enzyme for bioprocessing in agri industrial waste	DST-Startup NIDHI	10 Lakhs
Production of biofungicide with earthworm	DST-Startup NIDHI	10 Lakhs
Genome-wide mapping murine specific dengue CTL epitopes: Computational prediction, identification and use as candidate vaccines	DST-SERB	25 Lakhs
Molecular functional characterization of mitochondrial BK channel in mouse cochlear hair cell	DST-SERB	25 Lakhs
Studies on Molecular Mechanism of Vascular Endothelial Growth Factor and Pigment Epithelium Derived factor in Diabetic Retinopathy	ICMR	15 Lakhs
Scale up of polyhydroxyalkanoates production from indigenous isolates and its applications	DBT	25 Lakhs
Studies on Molecular Mechanism of Erythropoietin in Diabetic Retinopathy	DST – Young Scientist	15 Lakhs