

DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY CENTRE FOR EXCELLENCE IN NANOBIO TRANSLATIONAL RESEARCH UNIVERSITY COLLEGE OF ENGINEERING BHARTHIDASAN INSTITUTE OF TECHNOLOGY CAMPUS ANNA UNIVERSITY, TIRUCHIRAPPALLI, TAMIL NADU. PIN – 620 024

SPONSORED RESEARCH PROJECTS

Name of the PI/Co PI	Title of the Project	Funding Agency	Amount sanctioned in lakhs
	2024-2025		
Prof. Dr. E. Sanmuga Priya (PI)	Harnessing phenolic acid-bound Arabinoxylans from kodo millet as potent immunoregulatory dietary supplement	CMRG	34.12500
2023-2024			
Prof. Dr. P. Selvamani (PI)	Development of novel calcifediol loaded nano- in-micro (Nim) inhalable antibacterial powder formulation against respiratory superbugs	CSIR	25.00
	2021-2022		
Prof. Dr. E.Sanmuga Priya (PI) Dr. P. Senthamil Selvan (Co-PI)	Identification of S100 proteins binding distinct DAMP receptors and its activated signaling pathways that cause formation of NLRP3 inflammasome – Development of specific S100 inhibitors	ICMR	23.35

Prof. Dr. K. Ruckmani (PI) Dr. A. Shanmugarathinam (Co- PI)	Development of nano based smart pesticide formulations for high agricultural productivity	DST	55.74
	2019 – 2020		
Prof. Dr. K. Ruckmani (PI)	EDII Anna University PHARMANEST Incubation Center	Entrepreneurship Development Innovation Institute (EDII), Chennai	249.90
	2018 – 2019		
Prof. Dr. P. Selvamani (PI) Dr. S. Latha (Co-PI) Prof. Y. Takemura (PI) Yokohama National University, Japan Dr.Satoshi Ota (Co-PI) Shizuoka University, Japan	Development of peptide conjugated nano- magnetic probes as cancer theranostics	DST, India and JSPS, Japan	5.92 INR (980000 JPY)
Dr. S. Latha (PI) Prof. O. A. Odekku (PI) University of Ibadan, South Africa	Formulation and evaluation of magnetically triggerable smart tablets for improved ulcer therapy	Africa-India mobility fund of DBT Welcome Trust, Indian and African Academy of Sciences	5.69 IND (0.075USD)
Prof. Dr. N. Subramanian (PI) Prof. Dr. K. Ruckmani (Co-PI) Dr. A. Shanmugarathinam (Co- PI)	Synthesis, characterization, functional and toxicological evaluation of triblock grafted copolymer for the delivery of poorly soluble drugs	DST/Industry Academia linkage	92.04

Dr.Sandhya Pittala (Co-PI) Crenza Pharmaceuticals,			
Hyderabad			
	2017 – 2018		
Prof. Dr. K. Ruckmani (PI) Dr. N. Subramanian (Co-PI)	National Facility on Bioactive peptides from Milk	DST	167.16
Dr. N. Subramanian (PI) Dr. K. Ruckmani (Co-PI)	Resveratrol and catechins loaded niosomes and nanoparticles as delivery vehicles for fortification of milk and milk products	ICAR	28.85
Dr. S. Lakshmana Prabu (PI) Prof. Dr. K. Ruckmani (Co-PI)	Systematic exploration and analysis of Indigenous Nagaland medicinal plant Clematis nepaulesis	DBT	26.72
	2016-2017		
Dr. P. Selvamani (PI)	Bioassay guided fractionation of proteins/peptides from marine resources, structural characterization and evaluation as therapeutic lead against nosocomical pathogens and as nutraceutical supplement	SERB	53.39
Prof. Dr. K. Ruckmani (PI) Dr. A. Shanmugarathinam (Co- PI)	Stabilization of Plague (A Potential Bioweapon) Vaccine Using Biocompatible Polysaccharides	DRDO	44.4872
2015-2016			

Prof. Dr. E. Sanmugapriya (PI)	Amelioration of hydrolysable tannin fraction from Terminalia chebula fruits as potent antirheumatic agent	SERB	26.93
Dr. S. Latha (PI) Prof. Dr. P. Selvamani (Co-PI)	Magnetically triggered drug release from magnetic nanoparticles	DST	7.04
Dr. S. Latha (PI)	Development of Magnetic Polyherbal formulation for Targeted Therapy of Breast Cancer	SERB	11.00
2013-2014			
Prof. Dr. N. Subramanian (PI)	Targeted delivery of camptothecin using polymer stabilized nanoemolusion for the improved treatment of breast cancer	SERB	25.58
2012-2013			
Prof. Dr. K. Ruckmani (PI) Prof. Dr. P. Selvamani (Co-PI)	Isolation, Characterization and Formulation studies of gums obtained from Albizia Stipulata and Prunus cerasoides of Mizoram	DBT	29.40
Prof. Dr. A. Puratchikody (PI) Dr. A. Umamaheswari (Co-PI)	Design, synthesis and evaluation of Novel derivatives of dibromotyrosine as anti- inflammatory COX-2 inhibitors	DST	30.42
Prof. Dr. N. Subramanian (PI)	Development of Biodegradable Temperature and pH Responsive Hybrid Polymer-Peptide System for the Efficient Intraocular Delivery of Drugs	DBT	58.50

Prof. Dr. P. Selvamani (PI)	Systematic exploration and pharmacological appraisal of active live botanical ingredient (fraction) isolated from herbs as possible adjunct/alternate therapeutic aid for dementia associated with Alzheimer's disease	DST	26.85
	2010-2011		
Prof. Dr. K. Ruckmani (PI) Prof. Dr. P. Selvamani (Co-PI) Prof. Dr. N. Subramanian (Co- PI) Prof. Dr. E. Sanmugapriya (Co- PI) Dr. P. Senthamil Selvan (Co-PI)	National Facility for Drug Development for Academia, Pharmaceutical and Allied Industries	DST	600.00
Dr. S. Latha (PI) Prof. Dr. P. Selvamani (Co-PI)	Design Construction of Fe Drug Nano Complex loaded nano/micro bullets using a novel hybrid technology for magnetic targeted therapy and its comparative evaluation with special emphasis on rheumatoid arthritis	DRDO	12.564
2008-2009			
Prof. Dr. K. Ruckmani (PI)	Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs	DST	32.14
Prof. Dr. N. Subramanian (PI)	Development, characterization, and Biological/ pharmaco-technical evaluation of microemulsion and lipid dispersion for drug delivery and detoxification	SERC	20.77

Dr. S. Latha (PI) Prof. Dr. P. Selvamani (Co-PI)	Formulation development and in-vivo evaluation of a sustained release transdermal drug delivery system of a selected new antiemetic drug.	UGC	5.85
	2006-2007		
Prof. Dr. A. Puratchikody (PI)	Isolation and characterization of bioactive molecules from marine organisms	DST	14.36
Dr. S. Latha (PI)	Development of a novel method for the manufacture of pharmaceutical magnetic nanoparticles as a targeted drug release system for future applications in human GI tract	DST	10.62
	2004-2005		
Prof. Dr. P. Selvamani (PI) Dr. S. Latha	Bioprospection and characterization of bioactive metabolites from marine organisms as possible therapeutic agents	TNSCST	2.19
		Cumulative total =	1,726.5862