



**DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY
BHARATHIDASAN INSTITUTE OF TECHNOLOGY CAMPUS
ANNA UNIVERSITY
TIRUCHIRAPPALLI – 620 024**

FUNDED RESEARCH PROJECTS

S.No	Name of the PI/ Co PI/ Collaborator	Title of the Project	Funding Agency / Scheme	Sanction Amount (In Lakh(s))
2021 – 2022				
1.	Prof. E. Sanmuga Priya/ Dr.P. Senthamil Selvan	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, GoI	23.35
2020 – 2021				
2.	Dr. K. Ruckmani/ Dr. A. Shanmugarathinam	Development of nano based smart pesticide formulations for high agricultural productivity	DST, New Delhi	55.74
2019 – 2020				
3.	Dr. K. Ruckmani	EDII- Anna University- Pharmanest Incubation Center	EDII, Chennai	249.90
2018 – 2019				
4.	Prof. P. Selvamani / Dr. S. Latha / Prof.Y.Takemura, Yokohama National University, Japan Dr.Satoshi Ota, Shizuoka University, Japan	Development of peptide conjugated nano-magnetic probes as cancer theranostics	DST, GoI and JSPS, Japan [India-Japan Cooperative Science Programme]	5.92 INR 980,000 JPY

5.	Dr. S. Latha / Prof.O.A.Odekku, University of Ibadan, South Africa	Formulation and evaluation of magnetically triggerable smart tablets for improved ulcer therapy	African Academy of Sciences - DBT Welcome Trust (Africa-India Mobility Fund)	0.075 USD 5.69 INR
6.	Prof. N. Subramanian/ Prof. K. Ruckmani/ Dr. A. Shanmugarathinam/ Dr. Sandhya Pittala, Crenza Pharmaceuticals, Hyderabad	Synthesis, Characterization, Functional and Toxicological Evaluation of Triblock Grafted copolymer for the delivery of poorly soluble drugs	DST / Industry Academia linkage	92.04
2017 – 2018				
7.	Dr.K.Ruckmani(PI) Dr.N.Subramanian(CoPI)	National Facility on Bioactive peptides from Milk (PI) Jointly with National Dairy Research Institute , Bengaluru	DST, Govt. of India	167.16
8.	Dr.N.Subramanian(PI)	Resveratrol and catechinsloadedniosomes and nanoparticles as delivery vehicles for fortification of milk and milk products (Joint Project with NDRI, Bangalore)	NASF, New Delhi	28.85
9.	Dr.S.LakshmanaPrabu(PI) Dr.K.Ruckmani(CoPI)	Systematic exploration and analysis of Indigenous Nagaland medicinal plant “Clematis nepaulesis	DBT, New Delhi	26.72
2016 – 2017				
10.	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, New Delhi	53.39
2015 - 2016				
11.	Dr.E.SanmugaPriya(PI)	Amelioration ofhydrolysable tannin fraction from Terminaliachebula fruits as potent antirheumatic agent	SERB, New Delhi	26.93
12.	Dr.Latha(PI) Dr.P.Selvamani(CoPI)	Magnetically triggered drug release from magnetic nanoparticles	DST, Govt. of India	7.04

13.	Dr.Latha(PI)	Development of Magnetic Polyherbal Formulation for Targeted Therapy of Breast Cancer	SERB, New Dlehi	11.00
2013 – 1014				
14.	Dr.N.Subramanian(PI)	Targeted delivery of Camptothecin using polymer stabilized nanoemulsions for the improved treatment of breast cancer	DST- SERB, New Delhi	25.58
2012- 2013				
15.	Dr.K.Ruckmani(PI) Dr.P.Selvamani(CoPI)	Isolation, Characterization and Formulation studies of gums obtained from Albiziastipulata and Prunuscerasoides of Mizoram, Jointly with Regional Institute of Nursing & Paramedical Sciences(RIPANS), Mizoram	DBT,GOI Twinning Programme North East	under for 29.40
16.	Dr.A.Puratchikody(PI)	Design, synthesis and evaluation of Novel COX-2 inhibitors of dibromotyrosine derivatives as antiinflammatory drugs	DST, New Delhi	30.00
17.	Dr.N.Subramanian (PI)	Development of Biodegradable Temperature and pH Responsive Hybrid Polymer-Peptide System for the Efficient Intraocular Delivery of Drugs	DBT, New Delhi	58.50
18.	Dr.P.Selvamani(PI)	Systematic exploration and pharmacological appraisal of active botanical ingredient (fraction) isolated from herbs as possible adjunct / alternate therapeutic aid for dementia associated with Alzheimer's disease	DST, New Delhi	26.85
2010 – 2011				
19.	Dr.K.Ruckmani(PI) Dr.N.Subramanian(CoPI) Dr.P.Selvamani(CoPI)	National Facility for Drug Development for Academia, Pharmaceutical and Allied Industries	DST, Govt.ofIndia	600.00
20.	Dr.S.Latha(PI) Dr.P.Selvamani(CoPI)	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, New Delhi	12.56

2008 – 2009				
21.	Dr.K.Ruckmani(PI)	Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs	Nanomission, DST	32.14
22.	Dr.K.Ruckmani(PI)	Modernization of(MODROBS) Pharmaceutical Biotechnology Laboratory (coordinator)	AICTE	8.05
23.	Dr.K.Ruckmani(PI)	Stabilization of Plague (A Potential Bioweapon) Vaccine Using Biocompatible Polysaccharides Jointly with Kozhikode Government Medical Colege , Kerala	DRDO, New Delhi	44.49
24.	Dr.N.Subramanian(PI)	Development, characterization and biological evaluation of microemulsion and lipid dispersion for drug delivery and detoxification	DST - SERC, New Delhi	20.77
25.	Dr.S.Latha(PI) Dr.P.Selvamani(CoPI)	Formulation development and pharmacotechnical evaluation of controlled release transdermal drug delivery system of a selected new antiemetic drug.	UGC,New Delhi	5.85
2006 – 2007				
26.	Dr.A.Puratchikody(PI)	Isolation and Characterization of Bioactive Molecules from Marine Organisms	DST, New Delhi	14.36
27.	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, New Delhi	10.62