



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

RESEARCH PROJECT FELLOWSHIP

Name of the Mentor/PI/Fellow	Title of the Project	Funding Agency/ Scheme/ Fellowship
2021-2022		
Prof. K. Ruckmani/ Dr. Vijayakumar M. R	Development of Gapmer plus small molecule drugs loaded surface functionalized liposomes against brain cancer cells and cancer stem cells	UGC – Dr. D. S. Kothari Fellowship
Prof. K. Ruckmani/ Dr. Annadurai Thangaraj	Diabetes mellitus associated neuro inflammation and neuro degeneration: Implications for cognitive decline and brain aging	DBT- Ramalingaswami Reentry Fellowship
2020-2021		
Prof. A. Puratchikody/ Dr. P. Chandrasekar	Design and development of novel topical nano drug – delivery systems for the efficient treatment of glaucoma by using natural drugs	DHR, New Delhi
2019 – 2020		
Dr. S. Latha / Mr. M. Satishkumar	Identification and development of novel bioactive peptides from <i>Labeo Rohita</i> and <i>Oreochromis Niloticus</i> : An in vitro and in silico approaches	ICMR –SRF
Prof. K. Ruckmani/ Dr. K. Venkateshwaran	Development of nanomicellar pulmonary delivery system for the effective treatment of chronic obstructive pulmonary diseases	ICMR-DHR Young Scientist Fellowship
Prof. K. Ruckmani/ Dr. Oluwakemi Josephine Awakan	Evaluating the mechanism of action through which oleamide (9-octadecenamide) exhibits its anti-inflammatory activity and possible anti-cancer activity	DST/RTF-DCS

Prof. K. Ruckmani/ Ms. S. R. Sreeranjini	Pharmacological and toxicological investigation on <i>Geophila repens</i> with emphasis on its anti-Alzheimers activity	ICMR-SRF
Prof. K. Ruckmani/ Ms. A. Krubha	Stabilization of therapeutic protein, peptide and sub-unit vaccine at room temperature using biocompatible polysaccharides	ICMR-SRF
Dr. K. Akilandeswari/ Heba Salah Abbas Mostafa	Dr. Antifungal activities of phycogenic metal nanoparticles against candidiasis infections.	DST/RTF-DCS
2018 – 2019		
Prof. P. Selvamani / Dr.P.Satishkumar	Evaluation of molecular modulating role of <i>Jatropha tanjorensis</i> (Euphorbiaceae) on NF –KB/NrF2 signaling pathway of colon carcinogenesis	SERB -NPDF
Dr. S. Latha / Prof.Y.Takemura	Assembly of fluorescent supramolecular peptide conjugated magnetic nano-constructs as efficient multifunctional theranostic agent for breast cancer	MIF, Japan
Prof. K. Ruckmani/ Ms.D. Yamini	Pulmonary administration of calcitriol decorated quinine loaded nanostructured lipid carriers: A dual tasking asthma management therapy	ICMR-SRF
Prof. K. Ruckmani/ Ms.S. Vaidevi/	Resveratrol- Quercetin dual drug-loaded complex nanoparticulate combination therapy: A novel approach to treat colorectal cancer	ICMR-SRF
Dr.R.Vijaya / Mr.J. Kumar	Development of lipid based delivery system for the effective management of rheumatoid arthritis	ICMR - SRF
2017 – 2018		
Prof. P Selvamani / Mr. N. Krishnanand	Discovery and characterization of novel bioactive peptides from marine gastropods	UGC RGNF
Prof. K. Ruckmani / Dr. L. Gayathri/	Pulmonary toxicity induced by gliotoxin from <i>Aspergillus fumigatus</i> : <i>In vitro</i> study in human airway cells for understanding the molecular	SERB – NPDF

	mechanisms	
2016-2017		
Prof. K. Ruckmani/ Dr. SP. Suriyaraj	Development of portable water filter based on metal oxide bio-nanocomposites and polymer nanofibrous membrane for the removal of fluoride ions from drinking water	SERB - NPDF
Prof. K. Ruckmani/ Dr. S. Punitha	Development of dual-loaded dry emulsion containing atorvastatin and resveratrol for treating lung cancer	DHR - HRD Women Scientist
Prof. K. Ruckmani / Dr. T. Selvi	Total synthesis and nitric oxide inhibitory activity of novel Subaveniumins A and B and their analogues	UGC – Dr. D. S. Kothari fellowship
Prof. N. Subramanian/ Dr. P. Chandrasekar	Development and characterization of potent topical ocular nano formulations for the effective treatment of diabetic retinopathy using natural drugs	CSIR, New Delhi
Dr. S. Latha/ Dr. P. Rajesh	Fabrication and evaluation of joint-targeting drug incorporated magnetic nanocomposites for improved therapy of rheumatoid arthritis	SERB - NPDF
2015-2016		
Prof. K. Ruckmani/ Dr. Narra Kishore	Resveratrol-quercetin dual drug loaded nanoparticulate therapy- A novel approach to target and treat colorectal cancer	UGC - Dr. D. S. Kothari fellowship
Prof. K. Ruckmani/ Dr. Jasmine Annajothi Jacob Rajapushpam	Water system beneficial microbial tolerance to metal oxide nanoparticles	UGC – Dr. D. S. Kothari fellowship
Prof. P.Selvamani/ Dr. P. Priyadharsini	Development and evaluation of natural antimicrobial peptide(s) incorporated formulation for mdr-anti- infectious therapy	UGC-PDF
Prof. A. Puratchikody / Mr. S. Balasubramanian	<i>In silico</i> design, synthesis and biological evaluation of novel fluoroquinolone analogs with improved potency against fluoroquinolone-resistant	TEQIP II,

	<i>Escherichia coli</i> for the treatment of urinary tract infections	
2014-2015		
Prof. A. Puratchikody / Mr .N. Irfan	Design, synthesis and evaluation of novel COX-2 inhibitors of dibromotyrosine derivatives as anti-inflammatory drugs	DST, New Delhi
2013-2014		
Prof. K. Ruckmani/ Dr. M. Gover Antoniraj	Design, synthesis and characterization of stimuli responsive polymeric nanoparticles for targeted drug delivery	UGC - MANF
2011-2012		
Prof. K. Ruckmani/ Mr. C. Senthil Kumar	Studies on green synthesis and characterization of co-functionalized gold nanoparticles for cancer targeted drug delivery	UGC-RGNF