



**DEPARTMENT OF PHARMACEUTICAL TECHNOLOGY**  
**UNIVERSITY COLLEGE OF ENGINEERING**  
**BHARTHIDASAN INSTITUTE OF TECHNOLOGY CAMPUS**  
**ANNA UNIVERSITY, TIRUCHIRAPPALLI – 620 024**

**SPONSORED RESEARCH PROJECTS**

NAME OF THE PI/Co PI	TITLE OF THE PROJECT	FUNDING AGENCY/SCHEME	AMOUNT SANCTIONED IN LAKHS
<b>2024-2025</b>			
DR. E. SANMUGA PRIYA	HARNESSING PHENOLIC ACID-BOUND ARABINOXYLANS FROM KODO MILLET AS POTENT IMMUNOREGULATORY DIETARY SUPPLEMENT	CMRG	34.12500
<b>2023-2024</b>			
DR.P.SELVAMANI	DEVELOPMENT OF NOVEL CALCIFEDIOL LOADED NANO-IN-MICRO (NIM) INHALABLE ANTIBACTERIAL POWDER FORMULATION AGAINST RESPIRATORY SUPERBUGS.	CSIR	25.00
<b>2021-2022</b>			
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

<b>DR. K. RUCKMANI/ DR.A. SHANMUGARATHINAM</b>	<b>DEVELOPMENT OF NANO BASED SMART PESTICIDE FORMULATIONS FOR HIGH AGRICULTURAL PRODUCTIVITY</b>	<b>DST, NEW DELHI</b>	<b>55.74</b>
<b>2019 – 2020</b>			
<b>DR. K. RUCKMANI</b>	<b>EDII- ANNA UNIVERSITY- PHARMANEST INCUBATION CENTER</b>	<b>ENTREPRENEURSH IP DEVELOPMENT INNOVATION INSTITUTE (EDII), CHENNAI</b>	<b>249.90</b>
<b>2018 – 2019</b>			
<b>PROF.P.SELVAMANI/ DR.S.LATHA/ PROF.Y.TAKEMURA, YOKOHAMA NATIONAL UNIVERSITY, JAPAN DR.SATOSHI OTA, SHIZUOKA UNIVERSITY, JAPAN</b>	<b>DEVELOPMENT OF PEPTIDE CONJUGATED NANO-MAGNETIC PROBES AS CANCER THERANOSTICS</b>	<b>DST, INDIA AND JSPS, JAPAN</b>	<b>5.92 INR (980000 JPY)</b>
<b>DR.S.LATHA/ PROF.O.A.ODEKKU, UNIVERSITY OF IBADAN, SOUTH AFRICA</b>	<b>FORMULATION AND EVALUATION OF MAGNETICALLY TRIGGERABLE SMART TABLETS FOR IMPROVED ULCER THERAPY</b>	<b>AFRICA-INDIA MOBILITY FUND OF DBT WELCOME TRUST, INDIAN AND AFRICAN ACADEMY OF SCIENCES</b>	<b>5.69 IND (0.075USD)</b>
<b>PROF.N.SUBRAMANIAN /PROF.K.RUCKMANI/ DR.A. SHANMUGARATHINAM/ DR.SANDHYA PITTALA, CRENZA PHARMACEUTICALS, HYDERABAD</b>	<b>SYNTHESIS, CHARACTERIZATION, FUNCTIONAL AND TOXICOLOGICAL EVALUATION OF TRIBLOCK GRAFTED COPOLYMER FOR THE DELIVERY OF POORLY SOLUBLE DRUGS</b>	<b>DST/INDUSTRY ACADEMIA LINKAGE</b>	<b>92.04</b>

<b>2017 – 2018</b>			
<b>DR. K. RUCKMANI, DR. N. SUBRAMANIAN (Co-PI)</b>	<b>NATIONAL FACILITY ON BIOACTIVE PEPTIDES FROM MILK</b>	<b>DST,</b>	<b>167.16</b>
<b>DR. N. SUBRAMANIAN DR. K. RUCKMANI (Co-PI)</b>	<b>RESVERATROL AND CATECHINS LOADED NIOSOMES AND NANOPARTICLES AS DELIVERY VEHICLES FOR FORTIFICATION OF MILK AND MILK PRODUCTS</b>	<b>ICAR</b>	<b>28.85</b>
<b>DR. S. LAKSHMANA PRABU, DR. K. RUCKMANI (Co-PI)</b>	<b>SYSTEMATIC EXPLORATION AND ANALYSIS OF INDIGENOUS NAGALAND MEDICINAL PLANT CLEMATIS NEPAULESIS</b>	<b>DBT</b>	<b>26.72</b>
<b>2016-2017</b>			
<b>DR. P. SELVAMANI DR. K. RUCKMANI</b>	<b>BIOASSAY GUIDED FRACTIONATION OF PROTEINS/PEPTIDES FROM MARINE RESOURCES, STRUCTURAL CHARACTERIZATION AND EVALUATION AS THERAPEUTIC LEAD AGAINST NOSOCOMICAL PATHOGENS AND AS NUTRACEUTICAL SUPPLEMENT</b>	<b>SERB</b>	<b>53.39</b>
<b>DR. K. RUCKMANI DR.A. SHANMUGARATHINAM (Co-PI)</b>	<b>STABILIZATION OF PLAGUE (A POTENTIAL BIOWEAPON) VACCINE USING BIOCOMPATIBLE POLYSACCHARIDES</b>	<b>DRDO</b>	<b>44.4872</b>
<b>2015-2016</b>			
<b>DR. E. SANMUGAPRIYA</b>	<b>AMELIORATION OF HYDROLYSABLE TANNIN FRACTION FROM TERMINALIA CHEBULA FRUITS AS POTENT ANTIRHEUMATIC AGENT</b>	<b>SERB</b>	<b>26.93</b>

<b>DR.S.LATHA DR. P. SELVAMANI (Co-PI)</b>	<b>MAGNETICALLY TRIGGERED DRUG RELEASE FROM MAGNETIC NANOPARTICLES</b>	<b>DST</b>	<b>7.04</b>
<b>DR. S. LATHA</b>	<b>DEVELOPMENT OF MAGNETIC POLYHERBAL FORMULATION FOR TARGETED THERAPY OF BREAST CANCER</b>	<b>SERB</b>	<b>11.00</b>
<b>2013-2014</b>			
<b>DR. N. SUBRAMANIAN</b>	<b>TARGETED DELIVERY OF CAMPTOTHECIN USING POLYMER STABILIZED NANOEMULSION FOR THE IMPROVED TREATMENT OF BREAST CANCER</b>	<b>SERB</b>	<b>25.58</b>
<b>2012-2013</b>			
<b>DR. K. RUCKMANI, DR. P. SELVAMANI (Co-PI)</b>	<b>ISOLATION, CHARACTERIZATION AND FORMULATION STUDIES OF GUMS OBTAINED FROM ALBIZIA STIPULATA AND PRUNUS CERASOIDES OF MIZORAM</b>	<b>DBT</b>	<b>29.40</b>
<b>DR. A. PURATCHIKODY, DR. A. UMAMAHESWARI (Co-PI)</b>	<b>DESIGN, SYNTHESIS AND EVALUATION OF NOVEL DERIVATIVES OF DIBROMOTYROSINE AS ANTI- INFLAMMATORY COX-2 INHIBITORS</b>	<b>DST</b>	<b>30.42</b>
<b>DR. N. SUBRAMANIAN</b>	<b>DEVELOPMENT OF BIODEGRADABLE TEMPERATURE AND PH RESPONSIVE HYBRID POLYMER-PEPTIDE SYSTEM FOR THE EFFICIENT INTRAOCULAR DELIVERY OF DRUGS</b>	<b>DBT</b>	<b>58.50</b>

<b>DR. P. SELVAMANI</b>	<b>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</b>	<b>DST</b>	<b>26.85</b>
<b>2010-2011</b>			
<b>DR. K. RUCKMANI, DR. N. SUBRAMANIAN (Co-PI), DR. P. SELVAMANI (Co-PI),</b>	<b>NATIONAL FACILITY FOR DRUG DEVELOPMENT FOR ACADEMIA, PHARMACEUTICAL AND ALLIED INDUSTRIES</b>	<b>DST</b>	<b>600.0</b>
<b>DR.S.LATHA, DR. P. SELVAMANI (Co-PI)</b>	<b>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</b>	<b>DRDO</b>	<b>12.564</b>
<b>2008-2009</b>			
<b>DR. K. RUCKMANI,</b>	<b>NANOCOMPLEXES FOR THE TARGETED DRUG DELIVERY TO THE INFLAMED SITE OF LUNGS</b>	<b>DST</b>	<b>32.14</b>
<b>DR. N. SUBRAMANIAN</b>	<b>DEVELOPMENT, CHARACTERIZATION AND BIOLOGICAL/PHARMACOTECHNICAL EVALUATION OF MICROEMULSION AND LIPID DISPERSION FOR DRUG DELIVERY AND DETOXIFICATION</b>	<b>SERC</b>	<b>20.77</b>

<b>DR.S.LATHA, DR. P. SELVAMANI (Co-PI)</b>	<b>FORMULATION DEVELOPMENT AND IN-VIVO EVALUATION OF A SUSTAINED RELEASE TRANSDERMAL DRUG DELIVERY SYSTEM OF A SELECTED NEW ANTIEMETIC DRUG.</b>	<b>UGC</b>	<b>5.85</b>
<b>2006-2007</b>			
<b>DR. A. PURATCHIKODY</b>	<b>ISOLATION AND CHARACTERIZATION OF BIOACTIVE MOLECULES FROM MARINE ORGANISMS</b>	<b>DST</b>	<b>14.36</b>
<b>DR. S. LATHA</b>	<b>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</b>	<b>DST</b>	<b>10.62</b>
<b>2004-2005</b>			
<b>DR. P. SELVAMANI DR. S. LATHA</b>	<b>BIOPROSPECTION AND CHARACTERIZATION OF BIOACTIVE METABOLITES FROM MARINE ORGANISMS AS POSSIBLE THERAPEUTIC AGENTS</b>	<b>TNSCST</b>	<b>2.19</b>
		<b>CUMULATIVE TOTAL =</b>	<b>1,726.5862</b>

