



Department of Pharmaceutical Technology
Centre for Excellence in Nanobio Translational REsearch (CENTRE)
Bharathidasan Institute of Technology Campus, Tiruchirappalli
University College of Engineering
ANNA UNIVERSITY

| SPONSORED RESEARCH (COMPLETED) | | | | | |
|---|--|--|---|---|-----------------|
| S.No. | NAME OF THE PI | TITLE OF THE PROJECT | FUNDING AGENCY | AMOUNT SANCTIONED (in lakhs) | DURATION |
| 1. | Dr.K. Ruckmani and Dr.A. Shanmugarathinam | Development of micro and nano based smart pesticide formulations for high agricultural productivity | DST, New Delhi | 56.70 | 2020 – 2021 |
| 2. | Dr.K. Ruckmani | EDII - Anna university - pharmanest incubation center | Enterpreneurship development innovation institute (EDII), Chennai | 249.90 | 2019 – 2022 |
| 3. | Dr.N. Subramanian and Dr.K. Ruckmani (Co-PI) | Resveratrol and catechins - loaded niosomes and nanoparticles as delivery vehicles for fortification of milk and milk products | NASF | 28.85 | 2017 – 2020 |
| 4. | Dr.K. Ruckmani | National Facility on Bioactive peptides from Milk | DST, Govt. of India | 167.16 | 2017-2019 |
| 5. | Dr.K. Ruckmani | Systematic exploration and analysis of Indigenous Nagaland medicinal plant - Clematis nepaulesis for the effective treatment of Rheumatoid Arthritis | DBT, GoI under Twinning Programme for North East | 26.72 | 2017-2020 |
| 6. | Dr. K.Ruckmani | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 7. | Dr. A.Puratchikody | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 8. | Dr.N. Subramanian | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 9. | Dr. E.Sanmugapriya | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 10. | Dr. P.Selvamani | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 11. | Dr. S. Latha | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 12. | Dr. R. Vijaya | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 13. | Dr.A. Shanmugarathinam | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 14. | Dr.A. Umamaheswari | Research Seed Grant | TEQIP II | 0.50 | 2016 |



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| 15. | Dr. K. Kavitha | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 16. | Dr.P.Senthamil Selvan | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 17. | Dr.K Akilandeswari | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 18. | Dr.S.Lakshmana Prabu | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 19. | Dr.M. Vijaylakshmi | Research Seed Grant | TEQIP II | 0.50 | 2016 |
| 20. | Dr.K. Ruckmani | Stabilization of Plague (A Potential Bioweapon) Vaccine Using Biocompatible Polysaccharides | DRDO, Govt. of India | 44.99 | 2016-2019 |
| 21. | Dr. P.Selvamani | Bioassay guided fractionation of proteins/peptides from marine resources, structural characterization and evaluation as therapeutic lead against nosocomical pathogens and as nutraceutical supplement | Science and Engineering Research Board (SERB), Ministry of Science and Technology, Govt of India. | 53.392 | 2015 -2019 |
| 22. | Dr.S.Latha , Dr. P.Selvamani (Co-PI) | Magnetically triggered drug release from magnetic nanoparticles | Department of Science and Technology (DST), Ministry of Science and Technology, Govt of India and Deutscher Akademischer Austausch dienst (DAAD), Germany DST, New Delhi and DAAD, Germany | DST-5.00 DAAD – 6170 Euros | 2015 -2017 |
| 23. | Dr.K. Ruckmani | Isolation, Characterization and Formulation studies of gums obtained from Albiziastipulata and Prunuscerasoides of Mizoram | DBT, GoI under Twinning Programme for North East | 29.40 | 2014-2017 |
| 24. | Dr.E.Sanmuga Priya | Amelioration of hydrolysable tannin fraction from Terminal chebula fruits as potent antirheumatic agent | Start up research grant (SERB, New Delhi) | 26.93 | 2015-2018 |



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| 25. | Dr.A.Puratchikody , Dr. A.Umamaheswari (CO-PI) | Design, synthesis and evaluation of Novel COX-2 inhibitors of dibromotyrosine derivatives as anti-inflammatory drugs | DST, New Delhi. | 32.00 | 2013-2016 |
| 26. | Dr. P.Selvamani | 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 | Department of Science and Technology (DST), Ministry of Science and Technology, Govt of India. | 26.85 | 2012 – 2015 |
| 27. | Dr.K.Ruckmani & Dr. P.Selvamani (Co-PI) | Isolation, Characterization and Formulation Studies of Gums Obtained from <i>Albizia stipulata</i> and <i>Prunus cerasoides</i> of Mizoram | Department of Bio-Technology (DBT), Ministry of Science and Technology, Govt of India. | 57.62 | 2012 – 2015 |
| 28. | Dr.K.Ruckmani Dr.P.Selvamani (Co-PI), Dr.N.Subramanian, | National Facility for Drug Development for Academia, Pharmaceutical and Allied Industries | DST, Govt.of India | 600 .00 | 2010-2017 |
| 29. | Dr.K.Ruckmani | Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs | Nanomission,DST | 32.14 | 2010-2014 |
| 30. | Dr. S.Latha & 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. | Defence Research and Development Organization (DRDO), Ministry of Defence, Govt of India. | 12.56 | 2010 – 2013 |
| 31. | Dr. S. Latha | Design, Construction of Fe-drug nano complex loaded nano / micro bullets | DRDO New Delhi | 12.09 | 2009 - 2012 |



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| | | using a novel hybrid Technology for magnetic targeted therapy and its comparative with special emphasis on rheumatoid arthritis | | | |
| 32. | Dr.K.Ruckmani | Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs | DST, New Delhi. | 32.14 s | 2009 - 2012 |
| 33. | Dr.S.Latha, Dr.P.Selvamani (Co-PI) | Formulation development and pharmacotechnical evaluation of controlled release transdermal drug delivery system of a selected new antiemetic drug. | University Grants Commission, New Delhi | 5.85 | 2008 – 2011 |
| 34. | Dr .N Subramanian | Development, characterization and biological evaluation of microemulsion and lipid dispersion for drug delivery and detoxification | DBT, New Delhi | 20.77 | 2008-2011 |
| 35. | Dr.S.Latha, Dr.P.Selvamani (Co-PI) & Dr.A.Saraswathy (Co-PI) | Screening of some selected South Indian medicinal plants for treating Rheumatoid Arthritis. | Tamil Nadu State Council for Science and Technology (TNSCST), Chennai and Department of Science and Technology (DST), New Delhi. | 10.74 | 2007 – 2010 |
| 36. | Dr.A.Puratchikody | Isolation and Characterization of Bioactive Molecules from Marine Organisms | DST, New Delhi. | 14.36 | 2006 -2009 |
| 37. | Dr. P.Selvamani & Dr. S.Latha (Co-PI) | Bioprospection and characterization of bioactive metabolites from marine organisms as possible therapeutic agents. | Tamil Nadu State Council for Science and Technology (TNSCST), Chennai. | 2.19 | 2005- 2007 |



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|--------------|---|--|--|-------------------------------------|-----------------|
| 1 | Dr. E. Sanmugapriya and Dr.P.Senthamil Selvan (Co-PI) | Identification of S100 proteins binding distinct DAMP receptors and its activated signaling pathways that causes formation of NLRP3 inflammasome - Development of specific S100 inhibitors | ICMR, New Delhi | 24.00 | 2022 - 2023 |
| 2 | Dr. K Ruckmani | Synthesis, characterization, functional and toxicological evaluation of triblock grafted copolymer for the delivery of poorly soluble drugs | DST | 92.04 | 2years |
| 3 | Dr.K.Ruckmani | Development of Nano based Smart Pesticide Formulation for high Agricultural Productivity | DST | 55.74 | 2020-2022 |
| 4 | Dr.K.Ruckmani | EDII - Anna University - Pharmanest Incubation Center | Entrepreneurship Development Innovation Institute (EDII), Chennai (Govt. of Tamilnadu) | 249.90 | 2019-2022 |