

Department of Biochemistry, Biotechnology and Bioinformatics

List of funded research projects 2015 – till date

S.No	Faculty Name	Title of Project	Duration	Funding Agency	Amount sanctioned (Rs.)	Any JRF/SRF/Staff appointed in the project
1.	PI: Ms.S.Sivapriyadharshini Mentor: Dr.P.R.Padma	Analysis of the plant phenolics, quercetin and kaempferol on the proteomic and genomic components of oral cancer cells	2013-2016	DST-WOS-A	19.95 lakhs	-
2.	PI: Dr.R.Shanthi Mentor: Dr.S.Annapurani	Comparative study on the immunomodulatory and anticancer activities of flavanoids extracted from <i>Thespesiapopulnea</i> and <i>TabernaeMontana</i> divariate leaves on EAC and DLA in mouse model	2014-2017	DST-WOS-B	25.01 lakhs	-
3.	PI: Mrs.S.Anitha Mentor: Dr.S.Gayathri Devi	A comparative study of osteoporotic ratio for the high prevalence of vitamin D deficiency between the sufficient and insufficient sunlight exposure of postmenopausal women	2014-2017	DST-WOS-A	22.20 lakhs	-
4.	Dr.V.Bhuvaneswari and Dr.M.Rajeswari	Laccasse Mediated Polymerization of Ferulic acid and Assessment of its Antibiofilm Activity	Dec 2016 – March 2017	University Grants Commission, In-house Project	20,000	-

5.	Dr.Anitha Subash and Dr.A.Shobana	Isolation and Study of Protease from Fish Waste and Recommendation of its Use in Leather Industry	Dec 2016 – March 2017	University Grants Commission, In-house Project	20,000	-
6.	Dr.R.Nirmala Devi	Pharmacological Response of Herbal Formulations in the Management of Acute lymphoblastic Leukemia Using Molt-3 Cell Lines	Dec 2016 – March 2017	University Grants Commission, In-house Project	20,000	-
7.	Mrs.S.Velvizhi	Evaluation of Risk Factors and Biochemical Changes in Polycystic Ovarian Syndrome Women of Coimbatore Population	Dec 2016 – March 2017	University Grants Commission, In-house Project	20,000	-
8.	Dr.R.Radha and Dr.K.Kalaiselvi	Effect of value-added millet flakes on weight management and stress level of selected obese women	(2016-2019)	Department of Science and Technology	43.73 Lakhs	SRF P. Lincy (FSMD) P. Vandhana (BC) K. Vallikannu (BC)
9.	Dr.P.R.Padma	Validating the diabetic wound healing activity of Jatyadi Thailam using an <i>in vitro</i> reverse pharmacology approach	(2017-2019)	Ministry of Ayush	25.45 Lakhs	SRF Swathi Lakshmi Research Scholar

10.	Dr.S.Sumathi and Dr.S.T.Yamuna	An <i>in vitro</i> study on the anti-angiogenic effect of <i>Majorana hortensis</i> leaves	(Dec 2018 – March 2019)	University Grants Commission, In-house Project	30,000	-
11.	Dr.A.Pushpa	Evaluation of thrombolytic and antioxidant potential of selected medicinal plants	Dec 2017 – March 2018	University Grants Commission, In-house Project	20,000	-
12.	Dr.T.Angayarkanni	Green Synthesis of silver nanoparticles from Durian fruit (<i>Durio zibenthinus</i>) and its antimicrobial activity and antioxidant properties	Dec 2017 – March 2018	University Grants Commission, In-house Project	20,000	-
13.	Dr.Anitha Subash	An Ecofriendly approach for the synthesis of bioplastic using vegetable and fruit wastes	Dec 2019 – May 2020	Tamil Nadu State Council for Science and Technology	7,500	-
14.	Dr.Anitha Subash	Utilization of fruit, vegetable and flower wastes for vermicomposting and screening for industrial enzymes	Dec 2019 – May 2020	Tamil Nadu State Council for Science and Technology	7,500	-

15.	Dr.Anitha Subash	Using ANNs to predict the structure – activity relationships of anticancer photochemicals	Dec 2019 – May 2020	Department of Science and Technology – CURIE Artificial Intelligence	12,000	-
16.	Dr.T.Angayarkanni	Training ANNs to study the structure-activity relationships of antidiabetic phytochemicals	Dec 2019 – May 2020	Department of Science and Technology – CURIE Artificial Intelligence	15,000	-
17.	Dr.S.Sumathi	Detection of Cervical cancer using image processing and artificial neural network	Dec 2019 – March 2020	Department of Science and Technology – CURIE Artificial Intelligence	18,000	-
18.	Dr.N.Santhi	Prediction of semen quality as an outcome of environment and lifestyle habits using ANN	Dec 2019 – March 2020	Department of Science and Technology – CURIE Artificial Intelligence	26,000	-
19.	Dr.A.Shobana	Dimensionality reduction for DNA sequence of ESR1 using Artificial Intelligence	Dec 2019 – March 2020	Department of Science and Technology – CURIE Artificial Intelligence	10,000	-

20.	Dr.M.Rajeswari	Structure-Activity relationship of LasR inhibition using Machine learning algorithm	Dec 2019 – March 2020	Department of Science and Technology – CURIE Artificial Intelligence	27,000	-
21.	Dr.E.Nithya	Predicting obstructive sleep apnea using artificial intelligence	Dec 2019 – March 2020	Department of Science and Technology – CURIE Artificial Intelligence	19,000	-
22.	Dr. S. Sumathi	AI based potential gene identification tool using integrated approach for cervical cancer	May 2021 - May 2022	Department of Science and Technology – CURIE Artificial Intelligence	39,000	-
23.	Dr. R. Nirmala Devi	Intelligent techniques using meta analysis for the management of leukemia	May 2021 - May 2022	Department of Science and Technology – CURIE Artificial Intelligence	39,000	-
24.	Dr. D. Kavitha	Exploitation of Artificial Intelligence in the detection, Identification and prediction of pathogenic properties of Bacterial strains for the control of food borne infections	May 2021 - May 2022	Department of Science and Technology – CURIE Artificial Intelligence	1,09,000	-

25.	Dr. M. Rajeswari	Identification of potential inhibitor for AgrC protein of <i>Staphylococcus aureus</i> using machine learning algorithms	May 2021 - May 2022	Department of Science and Technology – CURIE Artificial Intelligence	89,000	-
-----	------------------	--	---------------------	--	--------	---