

## Back to Lab Projects -2017-18

<b>1.</b>	<b>Projects continued from previous year</b>	-	<b>29</b>
<b>2.</b>	<b>Newly sanctioned Projects</b>	-	<b>7</b>
<b>3.</b>	<b>Total - ongoing</b>	-	<b>36</b>
<b>4.</b>	<b>Completed during the year</b>	-	<b>7</b>

### 1. Projects continued from previous year

Sl. No	Name/ Research Center	Title of the Project	Broad Subject area	Project Duration & Type of fellowship	Scientist Mentor	Project cost (Rs) / Status
1.	<b>Smt. Nimmy John V.</b> National Institute of Technology, Calicut	Flexible Nanomaterial Doped Polymer Dispersed Liquid Crystal (PDLC) Devices for Switchable Window Applications	Applied Science/ Nanotechnology & Liquid Crystal display	01/10/2013 to 31/03/2017 Research fellowship	<b>Dr. N. Sandhyarani</b> Associate Professor School of Nano Science and Technology, NIT Calicut	16,42,957 <b>Completed</b>
2.	<b>Smt. Sreeja R</b> Dept. of Environmental Science, Matma Gandhi University, Kottayam	Evolution of Karamana River Basin and its Implications on Hydrogeology: A Geomatics approach using Morphometric Analysis	Basic/Applied Science/ Geology	23/12/2013 to 22/12/2016 Research fellowship	<b>Dr. Mahesh Mohan</b> Assistant Professor School of Environmental Sciences, M G University, Kottayam	17,30,629 <b>Completed</b>
3.	<b>Dr. Manju Mary Joseph</b> Dept. of Marine Science, CUSAT	Assessment of Biodiesel Application Potential of Microalgae collected from the Backwaters of Kerala	Basic/Applied Science/ Environmental Chemistry	26/10/2013 to 25/10/2016  Post-Doctoral Fellowship	<b>Dr.S. Muraleedharan Nair</b> Department of Chemical Oceanography, School of Marine Sciences, CUSAT	17,76,360 <b>Completed</b>
4.	<b>Smt. Divya Balakrishnan</b> JNTBGRI Thiruvananthapuram	Molecular analysis of the $\alpha$ amylase production in Streptomyces griseus (MTCC 3756) and development of a low cost maltose processing technology	Basic/Applied Science/ Microbial Biotechnology	03/03/2014 to 02/03/2017 Research fellowship	<b>Dr. Shiburaj S.</b> Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode, Trivandrum	16,16,979 <b>Completed</b>
5.	<b>Smt. Neethi Raj P</b> Dept. of Biotechnology, Matma Gandhi University, Kottayam	Immunomodulatory effect of beta glucan on neutrophil functions in Diabetes mellitus- An in vitro study	Basic/Applied Science/ Biochemistry	15/03/2014 to 14/09/2017 Research fellowship	<b>Dr. Anie Y.</b> Assistant Professor School of Biosciences, M G University, Kottayam	13,00,000 (Budget) <b>Completed</b>
6.	<b>Smt. Aswathy I.S</b> Dept. of Biochemistry, University of Kerala, Trivandrum	Scientific Validation of Kashayams used in Rheumatoid Arthritis (RA)	Basic/Applied Science/ Biochemistry	02/03/2015 to 01/03/2018 Research fellowship	<b>Dr. A. Helen</b> Associate Professor Department of Biochemistry, University of Kerala, Trivandrum	26,00,000 (Budget) <b>Completed</b>
7.	<b>Smt. Prasannakumari K.</b> Dept. of Physics, Mar Athanasius College, Kothamangalam	Microstructural Investigations in Gas Sensing of Doped Tin Oxide Thin Films	Physical Science/ Thin film Technology	09/02/2015 to 08/02/2018 Research fellowship	<b>Dr. Deepa S.</b> Department of Physics, Mar Athanasius College, Kothamangalam	12,35,000 (Budget) <b>Completed</b>
8.	<b>Smt. Dhanya Balan A.P.</b> Dept. of Chemistry, Government College, Kasaragod	Investigations on the development of solid acid catalyst from natural palygorskite collected from different parts of India	Basic Science/ Chemistry, Catalytic Study	09/02/2015 to 08/02/2018  Research fellowship	<b>Dr. Pushpaletta P.</b> Assistant Professor Department of Chemistry, Government College, Kasaragod	29,82,000 Ongoing

9.	<b>Smt. Krishna R. Prasad</b> National Centre for Earth Science Studies, Akkulam, Trivandrum	Wetland studies of Akathumuri Anchuthengu Kadinamkulam estuarine system, south west coast of India	Basic/Applied Science/ Geology	04/03/2015 to 03/03/2018  Research fellowship	<b>Dr. Reji Srinivas</b> Scientist B Division of Marine Science National Centre for Earth Science Studies, Akkulam, Trivandrum	23,10,000  Ongoing
10.	<b>Smt. Shiny R.</b> ICAR-CTCRI, Sreekariyam, TVM	“Climate smart natural resource management of Cassava (Manihot esculenta Crantz) using geo-informatics tools”	Applied Science/ Environmental Science	04.09.2015 to 03.09.2018 Research fellowship	<b>Dr. G. Byju</b> Principal Scientist Crop Production Division, ICAR-CTCRI Sreekariyam, TVM	19,85,000 Ongoing
11.	<b>Smt. Lekshmi K. Edison</b> JNTBGRI, Palode, Trivandrum	Production and characterization of $\beta$ -glucanase from Streptomyces sp.	Basic/Applied Science/ Microbial Biotechnology	01.12.2015 to 30.11.2018 Research fellowship	<b>Dr. N. S. Pradeep</b> Senior Scientist & Head Division of Microbiology JNTBGRI, Palode, Trivandrum	16,60,000 Ongoing
12.	<b>Smt. Sheetal Sivankutty</b> School of Biosciences, M.G. University, Kottayam	Identification, isolation and characterization of Acyl Homoserine Lactone-mimic compounds from selected plants	Basic/Applied Science/ Plant Biotechnology	01.01.2016 to 31.12.2018 Research Fellowship	<b>Dr. Jayachandran K.</b> Associate Professor School of Biosciences, M.G. University, Kottayam	10,72,400 Ongoing
13.	<b>Smt. Shahina N.K.</b> Department of Botany, St. Albert's College, Ernakulam	Nutritional and Biochemical Studies of Wild Edible Mushrooms used by Tribes of Palghat and Wayanad Districts of Kerala	Basic/Applied Science/ Applied Botany	11.12.2015 to 10.12.2018 Research fellowship	<b>Dr. K. Madhusudhanan</b> Assistant Professor Department of Botany, St. Albert's College, Ernakulam	14,80,000 Ongoing
14.	<b>Smt. Priya Bhaskaran K.P.</b> Department of Zoology, University of Calicut, Malappuram	Molecular Barcoding and Phylogenetic assessment of selected insect pests (Lepidoptera and Hemiptera) of major cucurbits cultivated in Malappuram District, Kerala	Basic/Applied Science/ Molecular taxonomy	10.12.2015 to 09.12.2018 Research fellowship	<b>Dr. Sebastian C. D.</b> Assistant Professor Department of Zoology, University of Calicut, Malappuram	14,65,000 Ongoing
15.	<b>Dr. Resmi J.</b> Dept. of Plant Breeding Onattukara RARS Kayamkulam, Alappuzha	Empowerment of rural women for cultivation and conservation of rare and endangered medicinal plants through agro-biotechnological interventions	Agriculture / Allied Science/  Agro Biotechnology	17.03.2016 to 16.03.2019  Post- Doctoral Fellowship	<b>Dr. M.R. Bindu</b> Associate Professor Dept. of Plant Breeding Onattukara Regional Agricultural Research Station, Kayamkulam, Alappuzha	23,68,000 Ongoing
16.	<b>Smt. Saritha. C</b> School of Chemical Science Payannur Campus, Kannur University	“Synthesis and characterization of carbazole based hole-transporting materials for application in photovoltaic cells	Chemical Science/ Organic Chemistry	01.02.2017 to 31.01.2020 Research fellowship	<b>Dr. K.R. Haridas</b> Professor School of Chemical Science, Kannur University	17,33,000 Ongoing
17.	<b>Smt. Indu Susan Raj</b> Dept. of Civil Engineering, M.A. College of Engineering, Kothamangalam	Study on the suitability, effectiveness and properties of various types of light weight concrete incorporating locally available materials for economical and sustainable masonry blocks	Engineering/ Civil Engineering	17.01.2017 to 16.01.2020  Research fellowship	<b>Dr. Elson John</b> Professor Dept. of Civil Engineering M.A College, Kothamangalam	20,06,830 Ongoing

18.	<b>Smt. Praseetha R Nair</b> Dept. of Polymer Science & Rubber Technology, CUSAT	Preparation and characterization of Cissus Quadrangularis Linn plant extract incorporated chitosan-collagen scaffold for bone regeneration	Basic/ Applied Science/ Chemistry	09.01.2017 to 08.01.2020 Research fellowship	<b>Dr. Sailaja G. S</b> Associate Professor Dept. of Polymer Science and Rubber Technology, CUSAT	20,07,655 Ongoing
19.	<b>Dr. Sini Anoop</b> M.E.S. Ponnani College Malappuram	Preparation and characterization of Cissus Quadrangularis Linn plant extract incorporated chitosan-collagen scaffold for bone regeneration	Applied Science/ Marine Biology	09.03.2017 to 08.03.2020 Post-Doctoral Fellowship	<b>Dr. Razia Beevi</b> Associate Professor MES Ponnani-Malappuram	23,42,200 Ongoing
20.	<b>Dr. Viji A R</b> Dept. of Botany, University College, TVM	“Systematic studies of the family Cyperaceae in Southern Western Ghats”	Basic/ Applied Science/ Botany	20.12.2016 to 19.12.2019 Post-Doctoral Fellowship	<b>Dr. T. S. Preetha</b> Assistant Professor Dept. of Botany University College, TVM	23,17,200 Ongoing
21.	<b>Smt. Keerthy Vijayan</b> Forest Health Division KFRI	Tracking the invasion of achatia fulica and its role in spreading the rat lungworm.	Basic/ Applied Science/ Biotechnology	15.12.2016 to 14.12.2019 Research fellowship	<b>Dr. T.V Sajeew</b> Scientist E1 & Head Forest Health Division, KFRI	20,08,00 Ongoing
22.	<b>Smt. Jisha K</b> Dept. of Botany Govt. Victoria College, Palakkad	Vascular Plant diversity of riparian system along Thutha river, Kerala	Basic/ Applied Science/ Botany	29.03.2017 to 28.03.2020 Research fellowship	<b>Dr. Maya C Nair</b> Assistant Professor & Head, Dept. of Botany Govt. Victoria College, Palakkad	18,53,400 Ongoing
23.	<b>Dr. Reji</b> Division of Microbiology JNTBGRI Palode, TVM	Biotransformation of saponins to diosgenin for enhanced yield from Dioscorea sp using indigenous fungal strains	Basic/ Applied Science/ Biotechnology	15.03.2017 to 14.03.2020 Post-Doctoral Fellowship	<b>Dr. N. S.Pradeep</b> Senior Scientist & Head, Division of Microbiology, JNTBGRI, Palode, TVM	22,87,200 Ongoing
24.	<b>Dr. Bindu. K .Jose</b> College of Forestry, Kerala Agricultural University Vellanikkara	Studies on behaviour and pheromone signalling of the Teak trunk borer, Cossus cadambae Moore, its management implications and assessment of wood degradation due to the borer attack.	Basic/ Applied Science/ Forest Entomology	27.03.2017 to 26.03.2020 Post-Doctoral Fellowship	<b>Dr. Anoop Elaveettil Vasu,</b> Associate Professor and Head, Dept. of Wood Science, College of Forestry, KAU, Vellanikkara, Thrissur	20,97,200 Ongoing
25.	<b>Smt. Krishna Priya M G</b> Dept. of Civil Engg. M.A College of Engineering, Kothamangalam	Activity based travel demand modeling integrating residential location Characteristics	Engineering/ Transportation Planing/ Civil Engineering	27.03.2017 to 26.03.2019 Research fellowship	<b>Prof. Bybin Paul</b> Assistant Professor, Dept. of Civil Engg., MA College of Engg., Kothamangalam	9,53,000 Ongoing
26.	<b>Smt. Rajeena. U</b> Dept. Chemistry, SNGS College Pattambi, Palakkad	Development of fluorographene-based electrochemical sensors for small biomolecules	Basic/ Applied Science Chemistry/ Electrochemical Sensor	23.03.2017 to 22.03.2020 Research fellowship	<b>Dr. Resmi M.R</b> Assistant Professor Dept. Chemistry, SNGS College Pattambi, Palakkad	15,80,000 Ongoing
27.	<b>Smt. Jennath</b> IIITM-K, Techno Park, TVM	Distributed Intelligence in Internet of Things	Engineering/ Artificial Intelligence	27.03.2017 to 26.03.2020 Research fellowship	<b>Dr. Asharaf S</b> Associate Professor IIITM-K Technopark, TVM	14,93,000 Ongoing
28.	<b>Smt. Lekshmi K R</b> IIITM-K, Techno Park, TVM	An Assistive communication technology for divyaang.	Basic/ Applied Science/ Speech Recognition	27.03.2017 to 26.03.2020 Research fellowship	<b>Dr. Elizabeth Sherly</b> Professor IIITM-K Technopark Campus, TVM	11,48,000 Ongoing

29.	<b>Dr. Vidya Raj</b> Department of Chemistry, Govt. College for Women, TVM	Heparin Gold Nanoparticles for Colorimetric Detection of Cardiac Troponin I	Basic/ Applied Science/ Chemistry	15.03.2017 to 14.03.2020 Post-Doctoral Fellowship	<b>Dr. Saji Alex</b> Assistant Professor Department of Chemistry, Govt. College for Women, TVM	23,82,200 Ongoing
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## 2. Newly sanctioned Projects

Sl. No	Name/ Research Center	Title of the Project	Area of research	Project Duration & Type of Fellowship	Scientist Mentor	Project cost (Rs) / Status
1	<b>Smt. Teena Merlin</b> Dept. of Biochemistry M.G. University, Kottayam	In vitro studies on the therapeutic potential of free radical scavengers from Kokilaksham Kashayam on macrophage cells in regulation of Chronic inflammation	Applied Science/ Biochemistry	27.03.2017 to 26.03.2020  Research Fellowship	<b>Dr. Prakash Kumar B</b> Associate Professor Dept. of Biochemistry School of Biosciences M.G. University, Kottayam	25,70,000
2.	<b>Smt. Neethu R S</b> Forest Health Division KFRI, Peechi, Thrissur	Evaluation of phenotypic and phytochemical profile of selected medicinal plants from different agro- climatic conditions of Kerala	Agriculture& Allied Science/ Forest Botany	29.03.2017 to 28.03.2019 Research Fellowship	<b>Dr. T. V. Sajeev</b> Scientist E1 & Head Forest Health Division KFRI, Peechi, Thrissur	12,32,500
3.	<b>Dr. Sreeja Purushothaman</b> RCC, TVM	Invito assessment of the anticancer property of Amalaki Rasayanam in triple Negative Breast Cancer and Delineation of its molecular mechanism of Action	Cancer Biology	13.07.2017 to 12.07.2020  Post-Doctoral Fellowship	<b>Lakshmi S, Ph.D.</b> Associate Professor, Laboratory of Molecular Medicine. Division of Cancer Research, <b>RCC, TVM</b>	24,57,200
4.	<b>Dr. Sunitha S.S</b> University of Kerala, Kariyavattom	“Role of Mitochondrial K-ATP channel in neuroprotection in Parkinson’s disease model and its therapeutic response to the plant, Withania somnifera and Morus alba	Neurobiology	26.04.2018 to 25.04.2021 Post-Doctoral Fellowship	<b>Dr. Benno Pereira F.G</b> Assistant professor, Dept. of Zoology, Kariyavattom, Thiruvananthapuram	24,21,200
5.	<b>Dr. Sapna K</b>	Isolation and functional analysis of protease inhibitors from mangroves in Kerala for therapeutic applications	Biotechnology	02.04.2018 to 01.04.2021 Post-Doctoral Fellowship	Dr.A.A. Mohamed Hatha, Professor, Department of Marine Biology, Microbiology, Biochemistry, CUSAT	21,57,200
6.	<b>Dr. Vineetha V.P</b> Dept. of Biochemistry, School of Ocean Science and Technology, KUFOS, Kochi	The implications of Tinospora cordifolia in circumventing the oxidative stress on fish induced by nano-TiO2	Nanotoxicity	22.01.2018 to 21.01.2021  Post-Doctoral Fellowship	<b>Dr. Preetham Elumalai.,</b> Assistant Professor, Dept.of Biochemistry School of Ocean Science and Technology, KUFOS	22,67,200
7.	<b>Dr. Vidya P</b> Dept. of Zoology, University of Calicut	Diversity and bioactivity studies of yeasts from the mangroves of Kerala’s coast with potential industrial applications	Microbiology & Molecular biology	21.03.2018 to 20.03.2021 Post-Doctoral Fellowship	<b>Dr. Sebastian C. D,</b> Assistant Professor, Dept. of Zoology, University of Calicut	21,07,200