

Back to Lab Projects -2017-18

- Number of projects continued from previous year - 29 nos.
- Number of projects completed in 2017-18 - 4 nos.
- Number of projects newly sanctioned in 2017-18 - 7 nos.
- Total number of projects in operation in 2017-18 - 36 nos.

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 (lakhs)/ Status
1.	Smt. Nimmy John V. School of Nano Science and Technology, NIT, 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	Dr. N. Sandhyarani Associate Professor School of Nano Science and Technology, NIT Calicut	16.42957 Completed
2.	Smt. Sreeja R School of Environmental Sciences, M.G..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	Dr. Mahesh Mohan Assistant Professor School of Environmental Sciences, M G University, Kottayam	17.30629 Completed
3.	Dr. Manju Mary Joseph 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	Dr. S. Muraleedharan Nair , Professor, Dept. of Chemical Oceanography, School of Marine Sciences, CUSAT	17.76360 Completed
4.	Smt. Divya Balakrishnan Division of Microbiology, JNTBGRI, Trivandrum	Molecular analysis of the α 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	Dr. Shiburaj S. Scientist-C, Division of Microbiology, JNTBGRI Palode, Trivandrum	16.19289 Completed
5.	Smt. Neethi Raj P School of Bio Sciences, Mahatma 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	Dr. Anie Y. Assistant Professor School of Bio sciences, M G University, Kottayam	13.00 Ongoing
6.	Smt. Aswathy I.S 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	Dr. A. Helen Associate Professor Dept. of Biochemistry, University of Kerala, Trivandrum	26.0 Ongoing
7.	Smt. Prasannakumari K. 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	Dr. Deepa S. Department of Physics, Mar Athanasius College, Kothamangalam	12.35 Ongoing
8.	Smt. Dhanya Balan A.P. 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	Dr. Pushpalettha P. Assistant Professor Dept. of Chemistry, Government College, Kasaragod	29.82 Ongoing

9.	Smt. Krishna R. Prasad Coastal Process Division, NCESS, 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	Dr. Reji Srinivas Scientist B Coastal Process Division,, NCESS Akkulam, Trivandrum	23.1 Ongoing
10.	Smt. Shiny R. Crop Production Division, ICAR-CTCRI, Sreekariyam, Trivandrum	“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	Dr. G. Byju Principal Scientist Crop Production Division, ICAR-CTCRI Sreekariyam, Trivandrum	19.85 Ongoing
11.	Smt. Lekshmi K. Edison Division of Microbiology, JNTBGRI, Palode, Trivandrum	Production and characterization of β -glucanase from <i>Streptomyces</i> sp.	Basic/Applied Science/ Microbial Biotechnology	01.12.2015 to 30.11.2018 Research fellowship	Dr. N. S. Pradeep Senior Scientist & Head Division of Microbiology JNTBGRI Palode, Trivandrum	16.6 Ongoing
12.	Smt. Sheetal Sivankutty Biotechnology and Bioprocess lab, 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	Dr. Jayachandran K. Associate Professor School of Biosciences, M.G. University, Kottayam	10.724 Ongoing
13.	Smt. Shahina N.K. 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	Dr. K. Madhusudhanan Assistant Professor Department of Botany, St. Albert's College, Ernakulam	14.80 Ongoing
14.	Smt. Priya Bhaskaran K.P. 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	Dr. Sebastian C. D. Assistant Professor Department of Zoology, University of Calicut, Malappuram	14.65 Ongoing
15.	Dr. Resmi J. Dept.of Plant Breeding Onattukara Regional Agricultural Research Station, 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	Dr. M.R.Bindu Associate Professor Dept.of Plant Breeding Onattukara Regional Agricultural Research Station, ayamkulam, Alappuzha	23.68 Ongoing
16.	Smt. Saritha. C Dept. Of Chemistry, 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	Dr. K.R. Haridas Professor School of Chemical Science, Kannur University	17.33 Ongoing
17.	Smt. Indu Susan Raj 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	Dr. Elson John Professor Dept. of Civil Engineering M.A College, Kothamangalam	20.0683 Ongoing
18.	Smt. Praseetha R Nair Dept. of Polymer Science & Rubber Technology, CUSAT	Preparation and characterization of <i>Cissus Quadrangularis</i> Linn plant extract incorporated chitosan-collagen scaffold for bone regeneration”	Basic/ Applied Science/ Chemistry	09.01.2017 to 08.01.2020 Research fellowship	Dr. Sailaja G. S Associate Professor Dept. of Polymer Science and Rubber Technology, CUSAT	20.07655 Ongoing

19.	Dr. Sini Anoop PG Department of Aquaculture and Fishery Microbiology, 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	Dr. Razia Beevi Associate Professor PG Department of Aquaculture and Fishery Microbiology, MES Ponnani- Malappuram	23.422 Ongoing
20.	Dr. Viji A R Dept. of Botany, University College, Trivandrum	“Systematic studies of the family Cyperaceae in Southern Western Ghats”	Basic/ Applied Science/Botany	20.12.2016 to 19.12.2019 Post-Doctoral Fellowship	Dr. T. S. Preetha Assistant Professor Dept. of Botany University College, Trivandrum	23.172 Ongoing
21.	Smt. Keerthy Vijayan Forest Health Division, KFRI, Peechi, Thrissur	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	Dr. T.V Sajeew Scientist E1 & Head Forest Health Division KFRI, Peechi, Thrissur	20.08 Ongoing
22.	Smt. Jisha K 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	Dr. Maya C Nair Assistant Professor & Head Dept. of Botany Govt. Victoria College, Palakkad	18.534 Ongoing
23.	Dr. Reji S R Division of Microbiology JNTBGRI Palode, Trivandrum	Bio transformation 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	Dr. N. S.Pradeep Senior Scientist & Head Division of Microbiology JNTBGRI Palode, Trivandrum	22.872 Ongoing
24.	Dr. Bindu. K .Jose Dept. of Wood Science, 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	Dr. Anoop Elaveetil Vasu, Associate Professor and Head, Dept. of Wood Science, College of Forestry, KAU, Vellanikkara, Thrissur	20.972 Ongoing
25.	Smt. Krishna Priya M G Department of Civil Engineering M.A College of Engineering, Kothamangalam	Activity based travel demand modeling integrating residential location Charecteristics	Engineering/ Transportation Planing/ Civil Engineering	27.03.2017 to 26.03.2019 Research fellowship	Prof. Bybin Paul Assistant Professor, Department of Civil Engineering, M A College of Engineering, Kothamangalam	9.53 Ongoing
26.	Smt. Rajeena. U 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	Dr. Resmi M.R Assistant Professor Dept. Chemistry, SNGS College Pattambi, Palakkad	15.8 Ongoing
27.	Smt. Jennath H S IITM-K, Techno Park, Trivandrum	Distributed Intelligence in Internet of Things	Engineering/ Artificial Intelligence	27.03.2017 to 26.03.2020 Research fellowship	Dr. Asharaf S Associate Professor IITM-K Technopark, Trivandrum	14.93 Ongoing
28.	Smt. Lekshmi K R IITM-K, Techno Park, Trivandrum	An Assistive communication technology for divyaang.	Basic/ Applied Science/ Speech Recognition	27.03.2017 to 26.03.2020 Research fellowship	Dr. Elizabeth Sherly Professor IITM-K Technopark Campus, Trivandrum	11.48 Ongoing
29.	Dr. Vidya Raj Department of Chemistry, Govt. College for Women, Trivandrum	Heparin Gold Nanoparticles for Colorimetric Detection of Cardiac Troponin I	Basic/Applied Science/ Chemistry	15.03.2017 to 14.03.2020 Post-Doctoral Fellowship	Dr. Saji Alex Assistant Professor Department of Chemistry, Govt. College for Women, Trivandrum	23.822 Ongoing

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 (lakhs)/ status
30.	Smt. Teena Merlin School of Bioscience, 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	Dr. Prakash Kumar B Associate Professor Dept. of Biochemistry School of Biosciences M.G. University, Kottayam	25.7
31.	Smt. Neethu R S 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	Dr. T. V. Sajeev Scientist E1 & Head Forest Health Division KFRI, Peechi, Thrissur	12.325
32.	Dr. Sreeja Purushothaman Division of Cancer Research, RCC, Trivandrum	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	Lakshmi S, Ph.D. Associate Professor, Laboratory of Molecular Medicine, Division of Cancer Research, RCC, Trivandrum	24.572
33.	Dr. Sunitha S.S Centre for Evolutionary and Integrative Biology, 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	Dr. Benno Pereira F.G Assistant professor, Dept. of Zoology, Kariyavattom, Thiruvananthapuram	24.212
34.	Dr. Sapna K Dept. of Marine Biology, Microbiology, Biochemistry, CUSAT	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	21.572
35.	Dr. Vineetha V.P 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-TiO ₂	Nano toxicity	22.01.2018 to 21.01.2021 Post-Doctoral Fellowship	Dr. Preetham Elumalai., Assistant Professor, Dept. of Biochemistry, , KUFOS, KOCHI	22.672
36.	Dr. Vidya P 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	Dr. Sebastian C. D, Assistant Professor, Dept. of Zoology, University of Calicut	21.072