

## Back-to-Lab Projects -2019-20

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| 1. Projects continued from previous year            | - 33 nos. |
| 2. Projects completed in 2019-20                    | - 03 nos. |
| 3. Newly sanctioned Projects in 2019-20             | - 03 nos. |
| 4. Total number of projects in operation in 2019-20 | - 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	<b>Smt. Neethu R S</b> Forest Health Division KFRI, Thrissur	<i>Evaluation of phenotypic and phytochemical profile of selected medicinal plants from different agro- climatic conditions of Kerala</i>	Agriculture & Allied Science/ Forest Botany	29.03.2017 to 28.03.2019 RF	<b>Dr. T. V. Sajeev</b> Scientist E1 & Head KFRI, Thrissur	12.32 <b>Completed</b>
2	<b>Smt. Krishna Priya M G</b> Dept. of Civil Engg., M.A College of Engg, Kothamangalam	<i>Activity based travel demand modeling integrating residential location Characteristics</i>	Engineering/ Transportation Planning/ Civil Engg.	27.03.2017 to 26.03.2019 RF	<b>Prof. Bybin Paul</b> Asst. Prof, Dept. of Civil Engg, MA College of Engg, Kothamangalam	8.50 <b>Completed</b>
3	<b>Smt. Krishna R. Prasad</b> NCESS, Akkulam, Trivandrum	<i>Wetland studies of Akathumuri Anchuthengu Kadinam kulam estuarine system, south west coast of India</i>	Basic/Applied Science/ Geology	04/03/2015 to 03/03/2018 RF	<b>Dr. Reji Srinivas</b> Scientist B Div. of Marine Science, NCESS, Trivandrum	18.43 <b>Completed</b>
4	<b>Smt. Shiny R.</b> ICAR-CTCRI, Sreekariyam, Trivandrum	<i>"Climate smart natural resource management of Cassava (Manihot esculenta Crantz) using geo-informatics tools"</i>	Applied Science/ Environmental Science	04.09.2015 to 03.09.2018 RF	<b>Dr. G. Byju</b> Principal Scientist Crop Production Division, ICAR-CTCRI, Trivandrum	17.76 Ongoing
5	<b>Smt. Saritha. C</b> School of Chemical Science, Payannur Campus, Kannur Univ.	<i>"Synthesis and characterization of carbazole based hole-transporting materials for application in photovoltaic cells"</i>	Chemical Science/ Organic Chemistry	01.02.2017 to 31.01.2020 RF	<b>Dr. K.R. Haridas</b> Prof., School of Chemical Science, Kannur University	17.33 Ongoing
6	<b>Smt. Indu Susan Raj</b> Dept. of Civil Engineering, M.A. College of Engg., Kothamangalam	<i>"Study on the suitability, effectiveness and properties of various types of light weight concrete incorporating locally available materials for economical and sustainable masonry blocks"</i>	Engineering/ Civil Engineering	17.01.2017 to 16.01.2020 RF	<b>Dr. Elson John</b> Professor Dept. of Civil Engg., M.A College, Kothamangalam	20.0683 Ongoing
7	<b>Smt. Praseetha R Nair</b> Dept. of Polymer Science & Rubber Technology, CUSAT	<i>Preparation and characterization of Cissus Quadrangularis Linn plant extract incorporated chitosan-collagen scaffold for bone regeneration"</i>	Basic/ Applied Science/ Chemistry	09.01.2017 to 08.01.2020 RF	<b>Dr. Sailaja G. S</b> Associate Professor Dept. of Polymer Science and Rubber Technology, CUSAT	20.07655 Ongoing
8	<b>Dr. Sini Anoop</b> M.E.S. Ponnani College Malappuram	<i>Preparation and characterization of Cissus Quadrangularis Linn plant extract incorporated chitosan-collagen scaffold for bone regeneration"</i>	Applied Science/ Marine Biology	09.03.2017 to 08.03.2020 PDF	<b>Dr. Razia Beevi</b> Associate Professor MES Ponnani- Malappuram	23.422 Ongoing
9	<b>Smt. Keerthy Vijayan</b> Forest Health Division, KFRI, Thrissur	<i>Tracking the invasion of achatia fulica and its role in spreading the rat lungworm.</i>	Basic/Applied Science/ Biotechnology	15.12.2016 to 14.12.2019 RF	<b>Dr. T.V Sajeev</b> Scientist E1 & Head, KFRI, Thrissur	20.08 Ongoing
10	<b>Smt. Jisha K</b> Dept. of Botany Govt. Victoria College, Palakkad	<i>Vascular Plant diversity of riparian system along Thutha river, Kerala</i>	Basic/ Applied Science/ Botany	29.03.2017 to 28.03.2020 RF	<b>Dr. Maya C Nair</b> Asst. Prof. & Head, Dept. of Botany, Govt. Victoria College, Palakkad	18.534 Ongoing
11	<b>Dr. Reji S R</b> Div. of Microbiology JNTBGRI, TVM	<i>Biotransformation of saponins to diosgenin for enhanced yield from Dioscorea sp using indigenous fungal strains</i>	Basic/ Applied Science/ Biotechnology	15.03.2017 to 14.03.2020 PDF	<b>Dr. N. S.Pradeep</b> Senior Scientist & Div. of Microbiology, JNTBGRI, TVM	22.872 Ongoing

12	<b>Dr. Bindu. K .Jose</b> College of Forestry, KAU, Vellanikkara Thrissur	<i>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.</i>	Basic/ Applied Science/ Forest Entomology	27.03.2017 to 26.03.2020 PDF	<b>Dr. Anoop Elaveettill Vasu,</b> Associate Prof. and Head, Dept. of Wood Science, College of Forestry, KAU, Vellanikkara,	20.972 Ongoing
13	<b>Smt. Rajeena. U</b> Dept. of Chemistry, SNGS College Pattambi, Palakkad	<i>Development of fluorographene-based electrochemical sensors for small biomolecules</i>	Basic/ Applied Science Chemistry/ Electrochemical Sensor	23.03.2017 to 22.03.2020 RF	<b>Dr. Resmi M.R</b> Asst. Prof. Dept. of Chemistry, SNGS College Pattambi, Palakkad	15.8 Ongoing
14	<b>Smt. Jennath</b> IIITM-K, Techno Park, Trivandrum	<i>Distributed Intelligence in Internet of Things</i>	Engineering/ Artificial Intelligence	27.03.2017 to 26.03.2020 RF	<b>Dr. Asharaf S</b> Associate Prof. IIITM-K Technopark, TVM	14.93 Ongoing
15	<b>Smt. Lekshmi K R</b> IIITM-K, Techno Park, Trivandrum	<i>An Assistive communication technology for divyaang.</i>	Basic/ Applied Science/ Speech Recognition	27.03.2017 to 26.03.2020 RF	<b>Dr. Elizabeth Sherly</b> Professor IIITM-KTechnopark Campus, TVM	11.48 Ongoing
16	<b>Dr. Vidya Raj</b> Dept. of Chemistry, Govt. College for Women, Trivandrum	<i>Heparin Gold Nanoparticles for Colorimetric Detection of Cardiac Troponin I</i>	Basic/ Applied Science/ Chemistry	15.03.2017 to 14.03.2020 PDF	<b>Dr. Saji Alex</b> Asst. Prof., Dept. of Chemistry, Govt. College for Women, TVM	23.822 Ongoing
17	<b>Smt. Teena Merlin</b> School of Biosciences M.G. University, Kottayam	<i>In vitro studies on the therapeutic potential of free radical scavengers from Kokilaksham Kashayam on macrophage cells in regulation of Chronic inflammation</i>	Applied Science/ Biochemistry	20.06.2017 to 19.06.2020 RF	<b>Dr. Prakash Kumar B</b> Associate Prof., School of Bio –sciences, M.G. Univ., Kottayam	25.7 Ongoing
18	<b>Dr. Sreeja Purushothaman</b> RCC, Trivandrum	<i>Invito assessment of the anti-cancer property of Amalaki Rasayanam in triple Negative Breast Cancer and Delineation of its molecular mechanism of Action</i>	Cancer Biology	13.07.2017 to 12.07.2020 PDF	<b>Lakshmi S, Ph.D.</b> Associate Prof., Div. of Cancer Research, RCC, Trivandrum	24.572 Ongoing
19	<b>Dr. Sunitha S.S</b> University of Kerala, Kariyavattom	<i>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</i>	Neurobiology	26.04.2018 to 25.04.2021 PDF	<b>Dr. Benno Pereira F.G</b> Asst. prof., Dept. of Zoology, Kariyavattom, Trivandrum	24.212 Ongoing
20	<b>Dr. Sapna K</b> Dept. of Marine Biology, Microbiology, Biochemistry, CUSAT	<i>Isolation and functional analysis of protease inhibitors from mangroves in Kerala for therapeutic applications</i>	Biotechnology	02.04.2018 to 01.04.2021 PDF	<b>Dr.A.A. Mohamed Hatha</b> Prof., Dept. of Marine Biology, Microbiology, Biochemistry, CUSAT	21.572 Ongoing
21	<b>Dr. Vineetha V.P</b> Dept. of Biochemistry, School of Ocean Science and Technology, KUFOS, Kochi	<i>The implications of Tinospora cordifolia in circumventing the oxidative stress on fish induced by nano-TiO2</i>	Nanotoxicity	22.01.2018 to 21.01.2021 PDF	<b>Dr. Devika Pillai,</b> Prof. Head, Dept. of Aquatic Animal Health Management, KUFOS, Panangad, Kochi	22.672 Ongoing
22	<b>Dr. Vidya P</b> Dept. of Zoology, University of Calicut	<i>Diversity and bioactivity studies of yeasts from the mangroves of Kerala's coast with potential industrial applications</i>	Microbiology & Molecular biology	21.03.2018 to 20.03.2021 PDF	<b>Dr. Sebastian C. D,</b> Asst. Prof., Dept. of Zoology, University of Calicut	21.072 Ongoing
23	<b>Smt. Kala S</b> School of Engineering, CUSAT	<i>Design, Modeling and Implementation of Convolutional Neural Networks</i>	Electronics and Communication Engineering	20.12.2018 to 19.12.2021 RF	<b>Dr. Babita Roslind Jose</b> Associate Prof, Div. of Electronics, School of Engineering, CUSAT	3.10 Ongoing
24	<b>Smt. Arya Krishnan</b> IIITMK, Techno park campus, Trivandrum	<i>Finger Vein Based User Authentication</i>	Biometrics	23.01.2019 to 22.01.2022 RF	<b>Dr. Tony Thomas</b> Asst. Prof., IIITM-K Kazhakkuttom, Trivandrum	9.708 Ongoing

25	<b>Dr. Gincy Marina Mathew</b> Microbial Process & Technology Division CSIR-NIIST, Trivandrum	<i>Prawn shell waste management and valorization by biotechnological conversion to chitin and other value added products</i>	Biotechnology	07.02.2019 to 06.02.2022 PDF	<b>Dr. Rajeev Kumar Sukumaran</b> Senior Scientist and Head, Microbial Process & Technology Division, NIIST, Trivandrum	14.172 Ongoing
26	<b>Dr. B Aswathy</b> Material Science & Technology Division, CSIR-NIIST, TVM	<i>TEMPO Oxidized Nanocellulose-mediated Au@Ag Core-Shell Nanostructures for the Detection of Trace Level Food Adulterants Using SERS Method</i>	Chemistry	13.12.2018 to 12.12.2021 PDF	<b>Dr. Saju Pillai</b> Scientist, Material Science & Technology Div. NIIST, Trivandrum	14.172 Ongoing
27	<b>Dr. Preetha G Nair</b> Dept. of Marine Biology, Microbiology & Biochemistry, School of Marine Sciences, CUSAT	<i>Fragilaria Oceanica: Is it a true indicator of high Indian Oil Sardine stock along the southwest (Kerala) coast of India</i>	Fishery oceanography	20/01/2019 to 19/01/2022 PDF	<b>Dr. Mohammed Hatha</b> Professor, School of Marine Sciences, CUSAT	14.172 Ongoing
28	<b>Dr. Resmi P</b> Dept. of fishery Hydrography, KUFOS, Kochi	<i>Isolation and characterization of alkaloids from the mangrove plants of Rhizophoraceae family and investigations on their anti-bacterial and antidiabetic activities</i>	Oceanography	24.01.2019 to 23.01.2022 PDF	<b>Dr. Anu Gopinath</b> Asst. prof. Dept. of fishery Hydrography, KUFOS, Kochi	14.172 Ongoing
29	<b>Dr. Roshni K</b> Dept. of Aquatic Environment Management, KUFOS, Kochi	<i>Risk assessment and impacts of aquaculture species on native fish diversity in the downstream and upstream areas of Mullaperiyar Reservoir, Periyar River, Kerala</i>	Fisheries Science	01.09.19 to 31.12.2022 PDF	<b>Dr. Ranjeet K</b> Associate Professor, KUFOS, Panangad, Kochi	14.172 Ongoing
30	<b>Smt. Dhanusha S S</b> Div. of Microbiology, JNTBGRI, Trivandrum	<i>Molecular phylogeny of Meliolaceous fungi of Kerala</i>	Biotechnology	17.12.2018 to 16.12.2021 RF	<b>Dr. N. S. Pradeep</b> Senior Scientist, Div. of Microbiology, JNTBGRI, TVM	9.708 Ongoing
31	<b>Smt. Archana T M</b> School of Chemical Sciences, Kannur University	<i>Development of Biopolymeric Nano antidiabetic drug</i>	Biochemistry	01.09.19 to 31.12.2022 RF	<b>Dr. S Sudheesh</b> Asst. Professor, School of Chemical Sciences, Kannur University	9.708 Ongoing
32	<b>Dr. Sujitha Mary</b> Marine Biotechnology Division, CMFRI, Kochi	<i>Biomarkers for environmental pollution: Development of genomic biomarkers using Perna indica (Perna Perna) as model species</i>	Bioinformatics	16.01.2019-15.01.2022 PDF	<b>Dr. Sandhya Sukumaran</b> Senior Scientist, Marine Biotechnology Division, CMFRI	14.172 Ongoing
33	<b>Dr. Raji S Nair</b> Division of Crop Utilization, CTCRI, Trivandrum	<i>Chlorophyll fluorescence kinetics and monitoring of photochemical efficiency in cassava (Manihot esculenta Crantz) genotypes for energy efficient cassava</i>	Plant Physiology	18.02.2019 to 17.02.2022 PDF	<b>Dr. Saravanan Raju</b> Senior Scientist, ICAR-CTCRI, Trivandrum	14.172 Ongoing

## 2. Newly Sanctioned Projects- 2019-20

No.	Name/ Research Center	Title of the Project	Area of research	Project Duration & Type of fellowship	Scientist Mentor	Project cost (lakhs)
1	<b>Dr. Dhanya G.</b> Dept of Botany, University of Kerala, TVM	<i>Phyto Mining(Bio-Ore Mining)- A Green Novel Strategy for the management of Hyper Accumulators</i>	Plant Biotechnology	05.02.2020 to 04.02.2023  PDF	<b>Dr. P. M. Radhamany,</b> Professor, Dept of Botany, University of Kerala, TVM	14.172
2	<b>Dr. Merlin Lopus,</b> Community Agrobiodiversity Center, MSSRF, Wayanad	<i>Analysis of drought, flood tolerance and nutritional properties of traditional rice varieties of Wayanad</i>	Plant Biology	01.06.2019 to 31.05.2022  PDF	<b>Dr. Suja George,</b> Principal Scientist, CABC-MSSRF, Wayanad	14.172
3	<b>Dr. G.Jitha,</b> Dept. of Aquatic Environment & Management.KUFOS, Kochi	<i>Large Scale cultivation of microalgae in outdoor Biofilm photobioreactors for the production of C- Phycocyanin</i>	Plant Biotechnology	10.06.2019 to 09.06.2020  PDF	Dr. Anu Gopinath, Assistant Professor, Dept. of Aquatic Environment & Management, KUFOS, Kochi	4.72