

Back-to-Lab Projects :2020-21

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| 1. Projects continued from previous year | - 33 nos. |
| 2. Newly sanctioned Projects in 2020-21 | - 10 nos. |
| 3. Total number of projects in operation in 2020-21 | - 43 nos. |
| 4. Projects completed by March 2021 | - 07 nos. |
| 5. Projects carried forward to next F.Y | - 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. Shiny R. 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 03.03.2019 RF	Dr. G. Byju Principal Scientist Crop Production Division, ICAR-CTCRI, Trivandrum	17.76 Completed
2	Dr. Sini Anoop M.E.S. Ponnani College Malappuram	<i>Functional Diversity of Biyyam Backwaters: Relating the Biodiversity to the Varying Environmental and Climatic Changes.</i>	Applied Science/ Marine Biology	09.03.2017 to 08.03.2020 PDF	Dr. Razia Beevi Associate Professor MES Ponnani- Malappuram	21.981 Completed
3	Smt. Keerthy Vijayan 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	Dr. T.V Sajeew Scientist E1 & Head, KFRI, Thrissur	19.95 Completed
4	Dr. Reji S R 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	Dr. N. S.Pradeep Senior Scientist & Div. of Microbiology, JNTBGRI, TVM	18.476 Completed
5	Smt. Rajeena. U 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	Dr. Resmi M.R Asst. Prof. Dept. of Chemistry, SNGS College Pattambi, Palakkad	15.789 Completed
6	Smt. Lekshmi K R 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	Dr. Elizabeth Sherly Professor IIITM-KTechnopark Campus, TVM	10.744 Completed
7	Smt. Kala S 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	Dr. Babita Roslind Jose Associate Prof, Div. of Electronics, School of Engineering, CUSAT	3.10 Completed
8	Smt. Saritha. C 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	Dr. K.R. Haridas Prof., School of Chemical Science, Kannur University	17.33 Ongoing
9	Smt. Indu Susan Raj 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 16.07.2020 RF	Dr. Elson John Professor Dept. of Civil Engg., M.A College, Kothamangalam	20.0683 Ongoing
10	Smt. Praseetha R Nair Dept. of Polymer	<i>Preparation and characterization of Cissus Quadrangularis Linn plant extract incorporated chitosan-</i>	Basic/ Applied Science/ Chemistry	07.03.2017 to 06.09.2020 RF	Dr. Sailaja G. S Associate Professor Dept. of Polymer Science	20.07655 Ongoing

	Science & Rubber Technology, CUSAT	<i>collagen scaffold for bone regeneration</i>			and Rubber Technology, CUSAT	
11	Smt. Jisha K 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 28.09.2020 RF	Dr. Maya C Nair Asst. Prof. & Head, Dept. of Botany, Govt. Victoria College, Palakkad	18.534 Ongoing
12	Dr. Bindu. K .Jose 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	Dr. Anoop Elaveetil Vasu, Associate Prof. and Head, Dept. of Wood Science, College of Forestry, KAU, Vellanikkara,	20.972 Ongoing
13	Smt. Jennath H S IIITM-K, Techno Park, Trivandrum	<i>Distributed Intelligence in Internet of Things</i>	Engineering/ Artificial Intelligence	27.03.2017 to 26.03.2020 RF	Dr. Asharaf S Associate Prof. IIITM-K Technopark, TVM	14.93 Ongoing
14	Dr. Vidya Raj 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 14.12.2020 PDF	Dr. Saji Alex Asst. Prof., Dept. of Chemistry, Govt. College for Women, TVM	23.822 Ongoing
15	Smt. Teena Merlin 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 19.12.2020 RF	Dr. Prakash Kumar B Associate Prof., School of Bio –sciences, M.G. Univ., Kottayam	25.7 Ongoing
16	Dr. Sreeja Purushothaman 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 12.01.2021 PDF	Lakshmi S, Ph.D. Associate Prof., Div. of Cancer Research, RCC, Trivandrum	24.572 Ongoing
17	Dr. Sunitha S.S 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 25.04.2022 PDF	Dr. Benno Pereira F.G Asst. prof., Dept. of Zoology, Kariyavattom, Trivandrum	24.212 Ongoing
18	Dr. Sapna K 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 01.04.2022 PDF	Dr.A.A. Mohamed Hatha Prof., Dept. of Marine Biology, Microbiology, Biochemistry, CUSAT	21.572 Ongoing
19	Dr. Vineetha V.P 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 21.07.2021 PDF	Dr. Devika Pillai, Prof. Head, Dept. of Aquatic Animal Health Management, KUFOS, Panangad, Kochi	22.672 Ongoing
20	Dr. Vidya P 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 20.09.2021 PDF	Dr. Sebastian C. D, Asst. Prof., Dept. of Zoology, University of Calicut	21.072 Ongoing
21	Smt. Arya Krishnan IIITMK, Techno park campus, Trivandrum	<i>Finger Vein Based User Authentication</i>	Biometrics	23.01.2019 to 22.01.2022 RF	Dr. Tony Thomas Asst. Prof., IIITM-K Kazhakkuttom, Trivandrum	9.708 Ongoing
22	Dr. Gincy Marina Mathew 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	Dr. Rajeev Kumar Sukumaran Senior Scientist and Head, Microbial Process & Technology Division, NIIST, Trivandrum	14.172 Ongoing
23	Dr. B Aswathy Material Science & Technology Division,	<i>TEMPO Oxidized Nanocellulose-mediated Au@Ag Core-Shell Nanostructures for the</i>	Chemistry	13.12.2018 to 12.12.2021 PDF	Dr. Saju Pillai Scientist, Material Science & Technology Div. NIIST,	14.172 Ongoing

	CSIR-NIIST, TVM	<i>Detection of Trace Level Food Adulterants Using SERS Method</i>			Trivandrum	
24	Dr. Preetha G Nair 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	Dr. Mohammed Hatha Professor, School of Marine Sciences, CUSAT	14.172 Ongoing
25	Dr. Resmi P 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	Dr. Anu Gopinath Asst. prof. Dept. of fishery Hydrography, KUFOS, Kochi	14.172 Ongoing
26	Dr. Roshni K 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	01.02.2019 to 31.01.2022 PDF	Dr. Ranjeet K Associate Professor, KUFOS, Panangad , Kochi	14.172 Ongoing
27	Smt. Dhanusha S S Div. of Microbiology, JNTBGRI, Trivandrum	<i>Molecular phylogeny of Meliolaceous fungi of Kerala</i>	Biotechnology	17.12.2018 to 16.12.2020 RF	Dr. N. S. Pradeep Senior Scientist, Div. of Microbiology, JNTBGRI, TVM	9.708 Ongoing
28	Smt. Archana T M School of Chemical Sciences, Kannur University	<i>Development of Biopolymeric Nano antidiabetic drug</i>	Biochemistry	01.02.2019 to 31.01.2022 RF	Dr. S Sudheesh Asst. Professor, School of Chemical Sciences, Kannur University	9.708 Ongoing
29	Dr. Sujitha Mary 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	Dr. Sandhya Sukumaran Senior Scientist, Marine Biotechnology Division, CMFRI	14.172 Ongoing
30	Dr. Raji S Nair 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	Dr. Saravanan Raju Senior Scientist, ICAR-CTCRI, Trivandrum	14.172 Ongoing
31	Dr. Dhanya G. 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	Dr. P. M. Radhamany Professor, Dept of Botany, University of Kerala, TVM	14.172
32	Dr. Merlin Lopus, 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	Dr. Shakeela V Community Agro biodiversity Center, MSSRF, Wayanad	14.172
33	Dr. G.Jitha, 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 30.11.2020 PDF	Dr. Anu Gopinath Assistant Professor, Dept. of Aquatic Environment & Management, KUFOS, Kochi	4.72

2. Newly Sanctioned Projects- 2020-21

No.	Name/ Research Center	Title of the Project	Area of research	Project Duration & Type of fellowship	Scientist Mentor	Project cost (lakhs)
1	Dr. Sobhana K.A. Zoological Survey of	<i>Taxonomy of the subfamily Aphodiinae (Coleoptera:</i>	Entomology	06/07/2020 to 05/07/2023	Dr. Girish Kumar P., Scientist C, Zoological	14.172

	India, Western Ghat Regional Centre, Kozhikode	<i>Scarabaeidae</i>) in the South Western Ghats region of Kerala.		PDF	Survey of India, Western Ghat Regional Centre,	
2	Dr. Lailaja V.P. Marine Biotechnology Division, Central Marine Fisheries Research Institute (CMFRI), Kochi,	<i>Investigation for L-Asparaginase free of clinical toxicity from symbiotic bacterial isolates from hemolymph and gut of Marine crabs</i>	Microbiology	01/07/2020 to 30/06/2023 PDF	Dr. Sumithra T.G., Scientist, Marine Biotechnology Division, CMFRI,	14.172
3	Dr. Hridya V.K. Chemical Sciences & Technology Division, CSIR-NIIST, Thiruvananthapuram,	<i>Bioprospecting of selected mangroves from Kerala coast</i>	Chemistry	13/08/2020 to 12/08/2023 PDF	Dr. K. V. Radhakrishnan, Principal Scientist & Head, CSIR- NIIST,	14.172
4	Dr. Haseena A. Dept. of Agricultural Microbiology, College of Horticulture, Kerala Agricultural University (KAU), Thrissur,	<i>Development of microbiome for the regeneration of soil organic matter to stabilize the disturbed and undisturbed areas of Nellyampathy and Attapadi</i>	Microbiology/ Biotechnology	01/07/2020 to 30/06/2023 PDF	Dr. Surendragopal., Professor, Dept. of Agricultural Microbiology, College of Horticulture, KAU,	14.172
5	Dr.Smitha P. S. NCESS, Aakkulam, Thiruvananthapuram	<i>Socio-economic and environmental viability of Pamba-Achankovil-Vaippar link</i>	Civil Engineering	31.03.2021 to 30-03.2024 PDF	Dr. K. Maya, Scientist F, Hydrological Processes (HyP), Post Box No.7250, Aakkulam, Thiruvananthapuram	14.172
6	Dr.Chinthu T. Udayarajan CSIR-NIIST, Thiruvananthapuram	<i>Development of Vegan Cheese</i>	Food Science	08/04/2021 to 07/04/2024 PDF	Dr. Nisha P., Senior Scientist, CSIR-NIIST, Thiruvananthapuram	14.172
7	Dr. Manju P. Nair Dept. of Aquatic Environment Management, KUFOS, Kochi	<i>Nano and microplastics prevalence as point source of trace metals: A tropical-polar evaluation</i>	Earth and Environmental Sciences	03/04/2021 to 02/04/2024 PDF	Dr.Anu Gopinath, Assistant Professor in Chemical Oceanography, Dept. of Aquatic Environment Management, KUFOS, Kochi	14.172
8	Dr.Bindu M. Dept. of Chemistry, University of Calicut	<i>High Performance Core @ Double Shell Structured TiO₂-Polymer Nanocomposites for Energy Storage and Dielectric Applications</i>	Polymer nanocomposites	15.04.2021 to 14.04.2024 PDF	Dr.Pradeeepan Periyat, Assistant Professor, Dept. of Chemistry, University of Calicut	14.172
9	Dr.Sandrea Maureen Francis School of Biology, IISER, Thiruvananthapuram	<i>Structural elucidation of the bacterial transcription elongation complex with Gre factors: focus on Mycobacterium tuberculosis RNA polymerase</i>	Molecular biology	26.04.2021 to 25.04.2024 PDF	Dr.Ramanathan Natesh, Assistant Professor, School of Biology, IISER, Thiruvananthapuram	14.172
10	Dr. B. Indulakshmi Department of Mechanical Engineering, CET, Thiruvananthapuram	<i>Design and development of an instrument-free microfluidic thermal control module for point of care pathogen detectors.</i>	Instrumentation and Control	26.04.2021 to 25.04.2024 PDF	Dr.Ranjith S. Kumar, Associate Professor, Dept. of Mechanical Engineering, CET, Thiruvananthapuram	14.172