



Faculty Achievements

DEPARTMENT OF BIOTECHNOLOGY

Proposals (Funding Approved)

- **2022-2023**

- ❖ Dr.R.Shyam Kumar, R.Mousika, R.Nianjana Devi, G.Sudharshan received Rs.6000/- grant from Foundation for Advancement of Education and Research (FAER) under Integra Scholar Award Program 2023 for the project titled on “Fabrication Of Thin Biofilm Using Boiled Rice Water Reinforced With Microalgae, “An Eco-Friendly Approach”
- ❖ Dr.R.Shyam Kumar and Sumana.R received Rs.7500/- grant from Tamilnadu State Council for Science and Technology, Chennai for the project titled on “Boiled rice water and proteinbased bio-film development by injection molding for packaging”
- ❖ Dr.R.Baskaran received Rs.7500/- grant from Tamilnadu State Council for Science and Technology, Chennai for the project titled on “Development of high performance high voltage insulator for power transmission line from blends of EPDM rubber/ethylene vinyl acetate copolymer.
- ❖ Proposal by Dr. S. Karthikumar, ASP/BT titled “Design and Development of AI-based Smart water Food Quality Analyzer – A Home appliance to monitor the selected quality parameters, Contaminants and Adultrants” is selected for incubation by MSME, Govt. of India.

Proposals (Funding Approved)

- **2021 – 2022**
- Dr.R.Shyam Kumar and Ms.Vinnarasi received Rs.7500/ grant from Tamilnadu State Council for Science and Technology, Chennai for the project titled on “Cost effective Rice Water based green composite film development for food packaging”
- Dr.S.Karthikumar, Mr.Janakiramam, Mr.R.Akash, Mr.Vishnushagar received Rs.7500/ grant from Tamilnadu State Council for Science and Technology, Chennai for the project titled on “Cost effective method development for C-Phycocyanin recovery from spirulina plantensis using Ohmic heating approach”
- Dr.A.Ronaldo Anuf, Ms.Nivetha, received Rs.7500/ grant from Tamilnadu State Council for Science and Technology, Chennai for the project titled on “Evaluation of antioxidant potential of Phytoconstituents isolated from Artocarpus haterophyllus peel”

Proposals (Funding Approved)

2019 – 2020

- Dr.S.Karthikumar and Ms.C.V.Jemima Romola received Rs.50000/- grant from Institutions of Engineers for the project titled on “Enzymatic synthesis of feruloyl lipid as an antioxidant blend to improve the oxidative stability of biodiesel”

Awards / Recognitions

2022 – 2023

- Dr.R.Shyam Kumar and Dr.S.Karthikumar were listed in AD Scientific Index - Scientist Rankings 2023
- Dr.A.Ronaldo Anuf received Best Researcher Award from Kumari Mangrove Foundation, Kanyakumari.
- Mousika R (19UBTE025), Niranjana Devi R (19UBTE012) and Sudharshan G (19UBTE004) of IV Year B. Tech Biotechnology has won I Prize and a cash prize of ₹ 1,00,000 in FAER Scholar for project “Fabrication of Thin Biofilm using Boiled Rice water reinforced with microalgae, An Ecofriendly Approach” on 28-06-2023. (Supervisor – **Dr. Shyam Kumar, Prof & HoD/BT**)

Patent / Copyright

2022 – 2023

- S. Karthikumar, R. Shyam Kumar, R. Suyambueswar, I.Sahana Anbukani, B. Jeyavarshini filed design Patent on “Algae-assisted Desalination Cell” – Appl.No: 381088-001
- S. Karthikumar, R. Shyam Kumar, Karl Joseph Samuel, M.Guru Harish, R.Harisma, M.Jayshri Malini, filed design Patent on “Algae Assisted Fuel Cell” - 381952-001
- Dr.K.Geetha, Dr.A.Ronaldo Anuf and Dr.S.Karthikumar registered for Copyright to “Molecular Biology and Genetic Engineering Laboratory Manual” – Diary No. 7993/2023-CO/L
- Dr.S.Karthikumar, R.Shyam Kumar, I.Ganesh Moorthy registered for Copyright to “Microtiter Plate Assay Protocol For Lipase Activity Determination Using Matlab-based Image Processing Technique” – Diary No. L-120572/2023
- Dr.R.Baskaran filed a Patent on “Rubber Recycling” – Appl.No: 202341010536.

Patent / Copyright

2021 – 2022

- S.Karthikumar, R.Shyam Kumar, I.Ganesh Moorthy, R.S.Vishunu Shagar, R.Akash, G.Janakiraman, filed a Patent on “A Process Of Improvement In Activity Retention And color Stability Of C-phycoocyanin During Ohmic Heating” – Appl.No: 202241026854
- S.Karthikumar, R.Shyam Kumar, T.Gayathiri, K.Nandhini, M.Ragambigai, A.Dhosija, filed a Patent on “A Method For C-phycoocyanin Fortified Dried Agar Andgelatin Based Hydrocolloids And The Process Thereof” - 202241024952

Special achievements

- **2022 - 2023**
 - Er.Karl Joseph Samuel cleared GATE'23 exam
- **2020 – 2021**
 - Dr.D.Pradiba cleared GATE'22 exam.