

## Dr. MALU RAVI



**Associate Professor**

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**UG:** University of Kerala, India



**PG:** Periyar University, India

**PhD:** University of Kerala, India

### **Educational Qualifications (as per chronological order)**

- MSc Biotechnology, Periyar University
- PhD in Biotechnology, University of Kerala
- BSc Botany and Biotechnology (twin major), University of Kerala

### **Area of Interest:**

 Molecular Biology,  
 Food Microbiology

 Biotechnology

### **Professional Experience:**

- ❖ Associate Professor, Department of Biotechnology & Biochemical Engineering, Sree Buddha College of Engineering, Alappuzha, India , August 2017- till date
- ❖ Assistant Professor, Department of Biotechnology & Biochemical Engineering, Sree Buddha College of Engineering, Alappuzha, India , August 2015 – July 2017.
- ❖ Lecturer, Department of Biotechnology, University of Kerala, India, January 2014 - August 2015.

- ❖ Junior Research Fellow (JRF), Molecular Reproduction Unit, Rajiv Gandhi Centre for Biotechnology (RGCB), India, October 2006 - October 2008
- ❖ Project: Molecular Characterization of the fibulin variant expressed in the uterus at implantation and identification of its interacting partners during this process, Funded by Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE), Government of India.
- ❖ Skilled Assistant, Department of Plant Entomology, College of Agriculture, Thiruvananthapuram, India, July 2005 - June 2006.

### Grants & Funding

- Principal Investigator, Analysis of Shatavarigulam for shelflife interfering microbial flora, Funded by Kerala State Council for Science, Technology & Environment (KSCSTE) (2021).
- Principal Investigator, Conversion of egg fruit to nutritional drink and study of its neuroprotective and antimitotic properties, Funded by Kerala State Council for Science, Technology & Environment (KSCSTE) (2016).

### Outreach activities

- Attended National level Faculty Development Programme on "Farm to Fork - enhancing food quality through post harvest handling" conducted by Hindustan College of Engineering and Technology from 17/05/2024 to 23/05/2024.
- Completed 14 days DBT Skill Vigyan Refresher Course for Faculties on the topic 'Gas Chromatographic Techniques in Aromatic Plants Research.' at the Central Instrumentation Facility, Jawaharlal Nehru Tropical Botanic Garden and Research Institute (KSCSTE-JNTBGRI), Palode, Thiruvananthapuram, Kerala, from January 16, 2024, to February 1, 2024.
- Completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Advancement of Digital Health and Medical Innovations during Pandemic" from 06/12/2021 to 10/12/2021 at Model Engineering College.
- Five Days Online Faculty Development Programme on Technological Interventions in Water Resources Management, organized by the Department of Biotechnology and Biochemical Engineering, Sree Chitra Thirunal College of Engineering and sponsored by APJ Abdul Kalam Technological University (KTU), Kerala, 6th to 10th September 2021.
- Completed one week online FDP on Biofuels – Recent trends and future prospects Department of Biotechnology and Biochemical Engineering, Sree Buddha College of Engineering from 30-08-2021 to 3-09- 2021.
- Attended Five Day Online Faculty Development Program on “Recent Trends and Developments in Food Technology” organized by Department of Food Technology, Saintgits College of Engineering, Kottayam, Kerala in association with AFSTI, Cochin Chapter from 10th to 14th August, 2020.
- Attended 7-day online FDP on NBA Accreditation Process organized by Department of Civil Engineering, MEA engineering college from 20th May to 28th May, 2020.

- Attended 6 day online FDP on Current Environmental Impacts and Sustainable Research Solutions, Department of Biotechnology and Biochemical Engineering, Sree Buddha College of Engineering from 21-07-2020 to 28-07- 2020.
- Participated in the Science Academies’ Science Leadership Workshop organized by the Central University of Punjab, Bathinda, India from June 22 to June 28, 2020.
- Faculty Development Programme (FDP) conducted by ICT Academy of Kerala, Sree Buddha College of Engineering, Pattoor, Kerala, India, 13–15 June, 2016.

## Awards and Recognizations

- Granted Indian patent for design for the title "Banana pseudostem slicer device" Design Number 411760-001
- Secured cash prize for phase IV of Idea Challenge- 2021 conducted by Samrambhak Mithra at St. Xavier’s College for Women, Aluva
- Secured second position in the ideation contest conducted in December 2021 as part of Innovator’s Premier League (IPL) 2021 initiated by Kerala StartUp Mission (KSUM) from September 2021 to March 2021.
- Resource person in the topic “Soil- Myriad ways of Research” on 6 day online FDP on Current Environmental Impacts and Sustainable Research Solutions, Department of Biotechnology and Biochemical Engineering, Sree Buddha College of Engineering from 21-07-2020 to 28-07- 2020.
- Received summer research fellowship of IAS- INSA- NASI programme 2018 at BARC,Mumbai
- Mentor for the National Programme on Technology Enhanced Learning (NPTEL) online certification course “Application of Spectroscopic Methods in Molecular Structure Determination” conducted by Indian Institute of Technology (IIT) Madras (2016).
- Best Paper award, Gamma radiation induced proteome of insect targets Rec A DNA repair protein, Second National Symposium of Society of Applied Biotechnology, Innovative Approaches and Modern Technologies for Crop Productivity, Food safety and environmental Sustainability held at Thrissur, Kerala 19 – 20 November, 2012.
- Qualified the National Eligibility Test (NET) conducted jointly by Council of Scientific & Industrial Research (CSIR) and University Grants Commission (UGC) India, 2007 and 2008

## Courses taught at SBCE

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|--|------------------------------------|
| ▪ Cell and Molecular Biology           | ▪ Biochemistry                     |
| ▪ Microbiology                         | ▪ Industrial Bioprocess Technology |
| ▪ Food Microbiology                    | ▪ Sustainable Engineering          |
| ▪ Animal and Plant Cell Technology     | ▪ Sustainable Energy processes     |
| ▪ Genetic Engineering                  | ▪ Constitution of India            |
| ▪ Food quality, safety and Regulations |                                    |

## Research Publications

1. Sony K Cherian, **Malu Ravi** and G.K. Shamnamol (2019). “*Aegle marmelos Fruit Shell as a Precursor for Activated Carbon Production and its Application in Fluoride Removal*”,

Journal of Advanced Research in Dynamical and Control Systems. 15-Special Issue, 2018, ISSN 1943-023X, Pg. No. 95-102.

2. **Malu Ravi**, Muraleedharan Damodaran and Gayathri Elayidam U (2017). “*Radiation induced DNA damage evaluation of insects using Comet assay*”. Journal of Entomological Research. 41 (2) : 119-124, DOI : 10.5958/0974-4576.2017.00019.6. ISSN No. 0378-9519.
3. Gayathri Elayidam U, **Malu Ravi** and Muraleedharan Damodaran (2015). “*Identification and proteomic characterization of a novel stage-specific factor from Verson’s Glands in the common mormon butterfly, Papilio polytes*”. Journal of Applied Zoological Researches 26 (1), 71-77.
4. Gayathri Elayidam U, **Malu Ravi** and Muraleedharan Damodaran (2012). *Allatostatin-quantum dot ligands as efficient immunolabelling bioconjugants*. ENTOMON 37(1-4) 169–176.
5. **Malu Ravi**, Reena Shabu, Chaubey R.C, Govindan Bhaskaran and Muraleedharan Damodaran (2011). *Gamma radiation sensitivity on larvae and eggs of Common mormon butterfly, P.polytes*. ENTOMON 36 (1-4)17-28.
6. Sheela M.S., Jiji., **Malu Ravi**, Shaiju simon (2006). *Screening of okra varieties for resistance against Meloidogyne incognita*, Indian Journal of Nematology 36 (2), 292-293.
7. **Ravi, M.**, Kumar, P.G. and Laloraya, M. *Expression of fibulin 1D during embryo implantation in the uterus*. <https://www.ncbi.nlm.nih.gov/nucore/EU543224.1>

### Membership of Professional Bodies

- Member, Asian Federation of Biotechnology.
- Life member of Association for Advancement of Entomology (AAE).

Website link:

<https://scholar.google.com/citations?hl=en&user=cfB3ua4AAAAJ>