

Dr. Jibu Thomas's Profile



Jibu Thomas M.Sc., Ph.D

Professor, Department of Biotechnology

School of Agriculture and Biosciences, KITS

Email: jibuthomas@karunya.edu, jibuthomas.t@gmail.com

Mobile No:9443017893

ORCID: 0000-0001-8132-6229

SCOPUS ID: 7407792982

Date of Joining KITS: 01.05.2010

Academic Background

Degree	University	Year
Postdoc	Under University Grants Commission (UGC) Research Awardee Scheme at Karunya Institute of Technology and Sciences – Plant Biotechnology	2014-16
Ph.D	Bharathiar University – UPASI Tea Research Institute, Valparai – Ph.D in Plant Physiology	2008

Degree	University	Year
M.Sc.	Bharathidasan University – Jamal Mohamed College, Tiruchirapally. M.Sc Botany – University First Rank & Gold Medalist	2002
B.Sc..	Bharathidasan University – Bishop Heber College, Tiruchirapally. B.Sc Botany	2000

Courses Taught

- Plant Secondary Metabolites and therapeutics
- Biopharmaceutical Technology
- Bioanalytical Techniques
- Molecular Biology and Genetic Engineering
- Plant Physiology

Research Interests

- Genomics
- Metabolic Profiling of Secondary Metabolites
- Phytotherapeutics
- Algae Technology
- Plant Microbe interactions

MOST RECENT PUBLICATIONS

- Dynamic modelling of growth and flavonoid production from *Ocimum tenuiflorum* suspension culture. Jacob, A., Mahanty, B., Jibu Thomas. *Bioprocess and Biosystems Engineering*, 2020, 43(11), pp. 2053–2064
- Exploring the distinctiveness of biomass and biomolecules from limnic microalgae of unexplored waters of Noyyal River, Western Ghats, for exploitation Sureshkumar, P., Jibu Thomas, *Environmental Science and Pollution Research*, 2020, 27(18), pp. 23309–23322

- Seasonal distribution and population dynamics of limnic microalgae and their association with physico-chemical parameters of river Noyyal through multivariate statistical analysis Kumar, P.S., Jibu Thomas, *Scientific Reports*, 2019, 9(1), 15021 4
- Strategic growth of limnic green microalgae with phycoremediation potential for enhanced production of biomass and biomolecules for sustainable environment. Sureshkumar, P., Jibu Thomas, *Environmental Science and Pollution Research*, 2019, 26(34), pp. 34702–34712
- 16s microbial phylogeny of multifunctional plant-growth-promoting rhizobacteria from the rhizosphere of maize (*Zea mays* L.) for agricultural soil fortification. Josephine, R., Thomas, J. *Biotechnologia*, 2019, 100(2), pp. 143–154

PROJECTS HANDLED

- DNA barcoding of tea germplasm a novel technique to authenticate, protect property right and to check adulterants and blends (2016 – 2019) - National Tea Research Foundation (NTRF), Kolkatta - Rs. 14.53 lakhs
- Documenting the green treasures towards green accreditation (2015-2016) - United Board, Hongkong - US\$ 50000
- Expression profiling of gene transcripts by semiquantitative (RT-PCR) and documenting antioxidant enzymes during drought stress in cultivated species of *Camellia sinensis* (2014 – 2016) - UGC-Research Award Govt. of India - Rs.22.95 lakhs
- Gene targeting of microbial isolates to demonstrate potential plant growth promoting traits by third generation sequencing (2013 – 2016) - Department of Biotechnology (DBT) Govt. of India - Rs.27.60 lakhs
- Phycoremediation a green technology initiative for effluents and there by production of high calorific biomass for biorefinery from microalgae using cost effective medium (2013 – 2016) - Science and Engineering Research Board (SERB) - DST Govt. of India - Rs.18.80 lakhs
- Algae biorefinery I-factors affecting biomass productivity in microalgae (2011-2014) - W2E/BESI Inc., USA - Rs.22.0 lakhs

PATENTS PUBLISHED/GRANTED

- Jibu Thomas, Vinolia S and Suresh Kumar - Indian Patent on Aerobic Pre-fermenter – 201741006585 - Dated 24.02.2017
 - Jibu Thomas, Reena Josephine - A Novel Composition for controlling pathogen in maize – 202041014007 - Dated 30.03.2020
 - Jibu Thomas, Dharshan Balachandran - An insect repellent composition from micro-algae and the process for the preparation thereof – 202041014485 - Dated 31.03.2020
 - Jibu Thomas, S. Jacob K. Annamalai, Muthukumar Nadar, T. Jesse Joel, C. Vani, S. Robert - Kavid – Karunya Disinfection Chamber – 20241020677 - Dated 15.05.2020
 - Jibu Thomas, Thomas George, Narain Ponraj, Joseph Chinnadurai, Devaprakash - A novel Herbal Disinfection composition and Dispensing Device Thereof – 202141014723 - Dated : 16.07.2021
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Memberships in Professional Bodies

- Indian Society of Plantation Crops
- Association of Microbiologist of India
- Association of Interdisciplinary Research in Science and Technology
- National Society for Ethanopharmacology