



(A biannual newsletter)

BioTalk

VOLUME 2
ISSUE 1

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WELCOME TO OUR
Department Newsletter



We are happy to bring our Volume 2, Issue 1 of **BioTalk**, Department of Biotechnology's Biannual Newsletter, giving a highlight of various activities and achievements happened during the even semester of the academic year **2024-2025**. The editor's team wishes to thank everyone who contributed and supported to this publication.

Enjoy the reading!



A PLATFORM TO PROJECT, LEARN AND DISCUSS

INTERNATIONAL CONFERENCE (ICBEST - 2025)

The Department of Biotechnology, in association with Universiti Sultan Zainal Abidin and INTI International University & Colleges, Malaysia successfully conducted the **Two days 4th International Conference on Biotechnological Emergence in Science and Technology** (ICBEST - 2025) in celebration of World Sustainable Energy Day - 2025 and National Science Day - 2025.



NATIONAL WORKSHOP

The Department of Biotechnology has successfully conducted the **Two days Hands on National level Workshop on Bioprocess Techniques** in collaboration with Tichel Bio Park, Chennai aiming to bridge the gap between theoretical knowledge and its practical applications



A SIGNIFICANT STEP TOWARDS GLOBAL ACADEMIC NETWORKING



SIGNING OF A MOU WITH THE UNIVERSITY OF JEMBER, INDONESIA

This collaboration aims to foster academic and research excellence through various initiatives, including:

- Student Mobility and Visiting Scholar Programs
- Academic Program Collaborations
- Joint Publication and Research Activities
- Exchange of Academic Materials and Information
- Scholarly Activities
- Other Mutually Agreed Activities



EXTENDING OUR ARMS IN CONNECTING WITH THE SOCIETY

OUTREACH INITIATIVES



The outreach program is a social initiative aimed to foster relationships between different generations, helping to reduce feelings of loneliness among elderly residents and providing children with role models.



A visit to Tansowa Atharavu Illam is to build a stronger sense of community responsibility, develop long-term initiatives that ensure continuous support and encouragement to take fundraising efforts by future generations towards needy people.



DRUG AWARENESS SESSION



A drug awareness session involves covering several critical aspects related to drug abuse and addiction. This is to educate and create awareness among students on drug abuse and drug addiction.

SAFETY AWARENESS SESSION



Guiding the importance of safety across all domains for safe progression in the life and lab.

SKILL DEVELOPMENT SESSION



Algal culture Technology and its potential applications in diverse fields including Environment, Biomedical, Food technology, Nanotechnology, and Immunology.

BRAIN STROMING SESSION



Advancement in diagnostic technologies in early disease detection and achieving personalized medicine.



PUBLICATIONS



THE JOURNEY FROM IDEA TO PUBLICATION

Research publications are essential to a professional development of the faculties from both inside and outside of academia. Five of our faculties have **published SIX papers in SCI and SCOPUS indexed journals**. In addition, Dr. M. Kamaraj has published **a book and 2 book chapters**. A student (Mr. Kailash Rajpurohit, III year B.Sc Biotechnology) has published a paper in a SCI indexed journal.

RESEARCH ARTICLE

Targeting beta-lactamase activity with Oxacyclohexadecan-2-one in carbapenem-resistant uropathogenic *E. coli*: A molecular simulation approach

Priyanka Balaji^{1*}, Madhana Priya N^{2,3*}, Emmanuel Bhaskar M.⁴, Gnanasambandan R⁵, Solomon F. D. Paul^{1*}, Magesh R.^{2*}

PLOS ONE

Dr. N. Madhana Priya has published a paper in a SCI indexed journal with an **impact factor of 2.9**.

Physiology and Molecular Biology of Plants

Dr. R. Vinoth Kumar has published a paper in a SCI indexed journal with an **impact factor of 3.4**.

RESEARCH ARTICLE

Prevalence of chilli leaf curl virus and tomato leaf curl New Delhi virus with chilli leaf curl disease in India

Nagendran Krishnan^{1,7}, Shweta Kumari^{1,2}, R. Vinoth Kumar³, K. Sakthivel⁴, Vikas Dubey¹, Rajasekhar Reddy⁵, Achuit Kumar Singh⁶, Rajesh Kumar⁶

Global Journal of Environmental Science and Management

REVIEW PAPER

Bibliometric analysis and impact of heavy metals contamination in soils

M. Kamaraj¹, N. Kiruthika², T. Saranya³, J. Aravind^{4*}

Dr. M. Kamaraj has published a paper in a SCOPUS indexed journal with an **impact factor of 3.1**.

Cell Tissue Bank

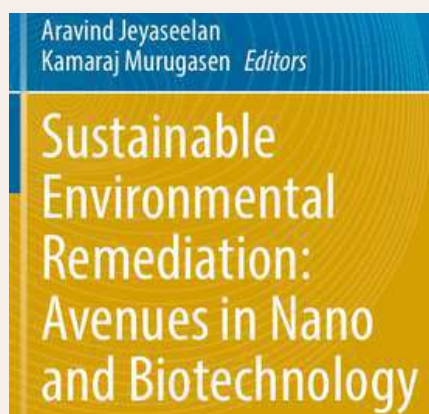
Dr. M. Kamaraj has published a paper in a SCOPUS indexed journal with an **impact factor of 1.4**.

FULL LENGTH PAPER

Lyophilization of dehydrated human amniotic membrane: a proactive approach to preserve growth factors for enhanced wound healing

Gayathri Anoop · M. Kamaraj · T. G. Nithya · Pothireddy Raghav Babu · Seetha S. Babu

BOOK & BOOK CHAPTERS



Dr. M. Kamaraj has published a book with SPRINGER publishers. He also published two chapters in this book.

Chapter 24 Microalgae Based Dye Remediation: A Sustainable Approach to Dye Abatement

V. L. Vibash Kalyaan, S. Gopinath, and M. Kamaraj



Chapter 16 Nanoparticles and Nanomaterial Green Synthesis and Their Application as an Environmental Remediation Tool: A Mini Review

P. Suresh Babu, M. Kamaraj, and Aravind Jeyaseelan

SHINING STUDENTS

INTERSHIPS

57

Number of internships completed by students



PUBLICATION

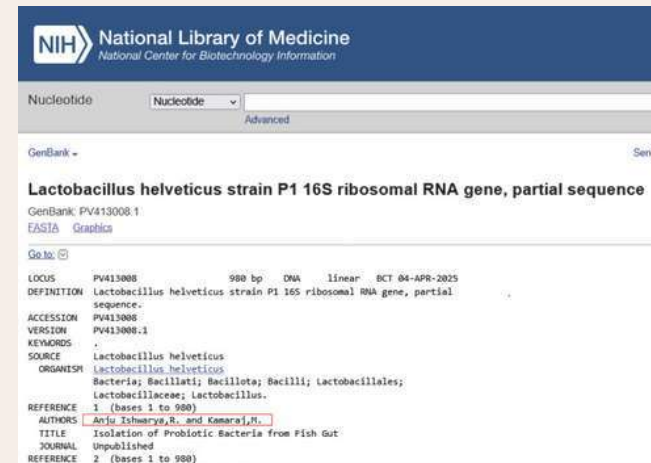
Carbohydrate Polymers
Volume 352, 15 March 2025, 123222

Chemical characteristics and bioactivity potential of polysaccharide extracts and purified fractions from Arctic brown macroalgae

Archana Singh^{a,b,d}, Ashok S. Jagtap^a, Kailash Rajpurohit^c, Keisham Sarjit Singh^d

Mr. Kailash Rajpurohit, III B.Sc Biotechnology has published a paper in a SCI indexed journal with an impact factor of 10.2.

SEQUENCE SUBMISSION



Ms. Anju Ishwarya R, III B.Sc Biotechnology and Dr. M. Kamaraj has submitted a bacterial sequence in the public database, NCBI.

ENTREPRENEUR

GMS Vermicomposting

Ms. Mahalakshmi of III year B.Sc Biotechnology student has successfully become an entrepreneur by founding a company "GMS Vermicomposting"



CHENNAI RAMAPURAM SRM
FACULTY OF SCIENCE & HUMANITIES
(A Place for Transformation)
DEPARTMENT OF BIOTECHNOLOGY

Heartly Congratulations

For becoming an entrepreneur by founding a company
"GMS VERMICOMPOSTING"

Ms.G. MAHALAKSHMI
(RA2231001020036)
III year B.Sc., Biotechnology

FOR ADMISSION ENQUIRIES
1800 102 1525



Achievements



Dr.M.Kamaraj, Associate Professor & HoD has delivered a special address in the plenary session as a keynote speaker in the Global Congress on Sustainable Growth & Development (GCSGD 2024) hosted by INTI International University, Malaysia on Dec 12, 2024.

Ms.Tanushree Amarnath of III B.Sc Biotechnology has secured the award of 1st place for the best presentation in an international conference organised by Sri Padmavati Makila Visvavidyalayam-Tirupati.



Our faculties Dr. M. Kamaraj, Associate Professor & HoD & Dr. G. Priya have successfully completed their 1 week Capacity Building Program in Indian Knowledge System organized by IQAC and MMTTC, Bharathiar University in association with UGC from 10-15 March 2025.

Mr.S.Gopinath, III B.Sc Biotechnology, FSH, SRM IST, Chennai Ramapuram, participated and secured 3rd place in paper presentation title “Exploring the anti-microbial potential of Streptomyces sp. Strain np 14 isolated from Dihang-Dibang biosphere reserve” in 4th International Conference On Advances In Biotechnology – Microbial Innovations For Sustainable Future (ICAB – MISF 2025) February 3rd & 4th, 2025 organised by Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai



Dr.Vinoth Kumar, Assistant Professor, Department of Biotechnology, FSH, SRM IST, Chennai Ramapuram, participated and secured 2nd place in paper presentation title “A plant milk-based paneer for the consumption of dairy in tolerant individuals” in 4th International Conference On Advances In Biotechnology – Microbial Innovations For Sustainable Future (ICAB – MISF 2025) February 3rd & 4th, 2025 organised by Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai

NPTEL SELF-PACED LEARNING



DREAM PG ADMISSION

UNITED STATES OF AMERICA

Mr. S. Gopinath



Ms. Anju Ishwarya. R

Hearty Congratulations

For securing a Dream admission in MS (Biotechnology)
at **Texas University at San Antonio, USA**

UTSA
The University of Texas
at San Antonio

 **Mr.S. GOPINATH**
(RA2231001020050)
III year B.Sc., Biotechnology

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Hearty Congratulations

For securing a Dream admission in MS (Biotechnology)
at **TEXAS UNIVERSITY AT SAN ANTONIO, USA**

UTSA
The University of Texas
at San Antonio

 **Ms.ANJU ISHWARYA.R**
(RA2231001020015)
III year B.Sc., Biotechnology

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Mr. Vibash Kalyaan



Hearty Congratulations

For securing a Dream Admission in MS (Microbiology) at
Texas Tech University, USA

TEXAS TECH
UNIVERSITY

He is secured with a Scholarship waiver of \$33,264/annum
He is also offered Teaching Assistantship of \$19,500/annum

 **Mr. V. L. VIBASH KALYAAN**
(RA2231001020048)
III year B.Sc., Biotechnology

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Ms. Tanushree Amarnath



Hearty Congratulations

For securing a Dream admission in MS (Biotechnology)
at **University of South Florida, USA**

UNIVERSITY of
SOUTH FLORIDA

 **Ms.TANUSHREE AMARNATH**
(RA2231001020024)
III year B.Sc., Biotechnology

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CANADA

Hearty Congratulations

For securing a Dream admission in MSc Applied in Biotechnology
at **MCGILL UNIVERSITY, CANADA**

 **McGill**

 **MS.B. SRIMATHI**
(RA2231001020052)
III year B.Sc., Biotechnology

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Ms. B. Srimathi



RESOURCE TALK on “'Advanced Sustainability through Chemical Engineering and Nano Technologies (ASCENT 2025) ”



Dr. M. Kamaraj, HoD has delivered talk as a **Keynote Speaker** in the conference of 'Advanced Sustainability through Chemical Engineering and Nano Technologies (ASCENT 2025)' hosted for the occasion of Diamond Jubilee celebration of Department of Chemical Engineering, National Institute of Technology- Warangal on March 21, 2025

Admissions Open for 2025-2026

Course Offered

B.Sc., Biotechnology
M.Sc., Biotechnology
Ph.D., Biotechnology (FT&PT)

Next issue will be released
on November 2025