



DEPARTMENT OF BIOTECHNOLOGY

PERIODICAL
NEWSLETTER

BIO SYNC



Highlights of the Department

- Faculty Publications
- Student events
- Bioconclave'24
- Industry lectures

● Future of Biotechnology - Word from the PIONEERS

"Sustainable biotechnology solutions will be key to addressing global challenges in agriculture, healthcare, and environmental conservation in 2025."

- Dr. Frances Arnold, Nobel Laureate

"2025 represents a critical inflection point for personalized medicine, where genomic insights will increasingly translate into targeted therapeutic interventions."

- Dr. Jennifer Doudna, CRISPR pioneer

As we stand at the forefront of global challenges, our department's innovative biotechnology research continues to pioneer sustainable solutions. Through our work in developing biosensors/biomarkers, bio-based materials, and efficient biofuel production methods, we are not just advancing scientific knowledge but actively contributing to a more sustainable and resilient future for our planet.

FROM THE HOD'S DESK

Faculty Scientific Publications

- Assessment of fungi against rice moth, International Journal of Entomology Research
- Anti-inflammatory activity of Fucoidan, Indian Journal of Pharmaceutical Sciences
- Surface hardness of AISI 316L SS, Book Chapter in Industrial Engineering
- Starch Nanocrystals from Cassava Peel, Vegetos
- Sugarcane bagasse cellulose for atrazine remediation, Journal of Environmental Chemical Engineering
- Food waste impact on cellulose-producing microbes, Biomass Conversion and Biorefinery
- Gene network analysis for Parkinson's disease, Molecular Diversity
- Amyloid transformations in *S. aureus*, Scientific Reports
- Sortases interactions with antivirulence compounds, Current Research in Structural Biology
- Biofilm matrix as antimicrobial barrier, Archives of Microbiology
- *E. coli* pathogenesis in UTI, Current Research in Microbial Sciences
- IBD heterogeneity using serum proteomics, Journal of Crohn's and Colitis
- Bioactive compounds in *Nelumbo nucifera*, Biosciences Biotechnology Research Asia
- Astaxanthin and ellagic acid in melanoma, Biointerface Research in Applied Chemistry
- Pomegranate seed extract as tyrosinase inhibitor, Indian Journal of Pharmaceutical Education
- Gummy bear supplements with nuciferine, Journal of Ayurveda and Integrative Medicine



Student events

In 2024, our students participated in various national and international events organized by academic institutions, industry and governmental agencies.

Such activities are expected to propel their professional and personal journeys.



Highlights

- Alumni talk series
- Placement Talk Series
- Charting Your Path-Higher Education Prospects in Canada – A Talk
- International Women's Day Lecture
- Amplifying life's Blueprint - DNA with RT-PCR
- Decoding the Green Script: Unravelling Plant Genome DNA Isolation
- Art O Mania
- Forensics 5.0
- Empowering Publishing with AI: Tools and Techniques for Scientific Excellence
- Recognition Day
- Bioindustry Conclave 2024 Academia - Industry Dialogues

BioConclave 2024

**Fostering
Academia-
Industry
collaborations
and dialogue**

This event brought together students, faculty and industry experts to explore emerging trends, opportunities and challenges in the fast-growing bioindustry in India.

Invited Speakers



Dr. Anurag Varshney
Vice President & Head
anjali Research Foundation



Dr. Maneesh Paul
CEO
Microvioma Pvt. Ltd



Dr. Chella Pandian Pitchai
Global Head, Diversity Equity &
Inclusion, Biocon Biologics Ltd



Dr. Salavadi Easwaran
Academic Dean & Director
Biocon Academy



**Dr. Vijay Venkatraman
Janarthanan**
MD & CEO, Oviya MedSafe



**Dr. Arumugam
Muruganatham**
Founder, Affigenix



Dr. Sivanandam Kesavan
Global Head, Program and Alliance
Management, Biocon Biologics Ltd



Dr. Ashish Mandlik
Sr. GM QC and R&D
Sakthi Sugars Ltd



Dr. Kumar Chokalingam
Clinical Research Manager
Dozee



Dr. Premkumar
Assistant Director
Pasteur Institute



**Mrs. Abiraamasundari
Ramapalaniappan**
Founder, SpinoS



Dr. Arthi Rathinasabapal
QC - Manager
Levim Lifetech Pvt Ltd



**Dr. Saranya
Nidhyanandan**
Regulatory Affairs Manager
PFIZER



**Mr. Arun Sathyaseelan
Palanichami**
Associate Director
Innovaccer



Ms. Sibi Kulandhaivel
Sr. Manager,
Co-Commercialization
Indegene



**Dr. Chellappa
Gopalakrishnan**
CEO, Genomatics Pt. Ltd

Industry lectures

**Dr. Maneesh Paul,
Microvioma Pvt Ltd**

Dr. Paul delivered an interactive talk on the topic of "Navigating Biomanufacturing and Biosimilar landscapes"

Dr. Varshney shared his experiences on the topic of "Molecular Diagnostics, Product Innovation and Clinical Research".

**Dr. Anurag Varshney
Vice President and
Head - Drug Discovery
and Development**

**Dr. Arthi
Rathinasabapathy,
Quality Control
Manager, Levim
Biotech Ltd.**

Dr. Arthi R expounded on the topic of "Decoding the regulatory challenges in bioindustries" in her interaction with students.