



**Dr. M.G.R.**  
**EDUCATIONAL AND RESEARCH INSTITUTE**

(Deemed to be University with Special Autonomy Status)  
Maduravoyal, Chennai - 600 095, Tamilnadu, India.



(An ISO 9001-2015 Certified Institution)

**DEPARTMENT OF BIOTECHNOLOGY**

**PRESENTS**

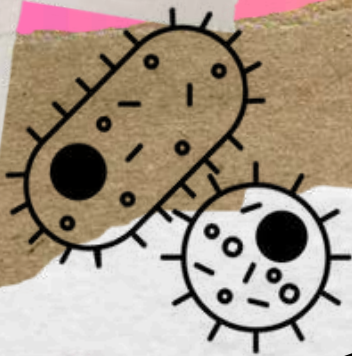
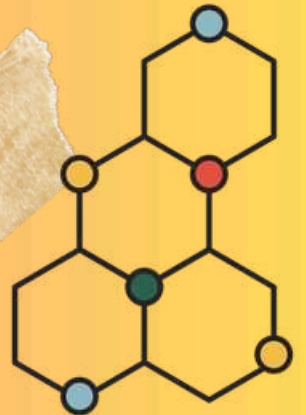
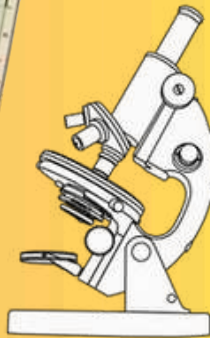
# **BIobyTES NEWSLETTER**

**BT 24 JULY 2024 - 18 OCT 2024**

**NEWS**

**H4 A**  
**Newsletter**  
**for the**  
**Year 2024**

**BT**





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## DEPARTMENT OF BIOTECHNOLOGY PRESENTS

# BIOBYTES NEWSLETTER

BT 26 AUG 2023 - 30 NOV 2023

## DEPARTMENT VISION & MISSION



### VISION

To strive towards the innovative knowledge in the domain of biotechnology for the development of new processes and product useful to the society and enrich economy.

### MISSION



To impart knowledge and skills in the biological sciences to improve human health, protect environment and to enrich economy. To provide an outstanding environment to learn for facing the global need in the fields of Biotechnology. We focus on excellence in teaching and research as well as to promote entrepreneurship





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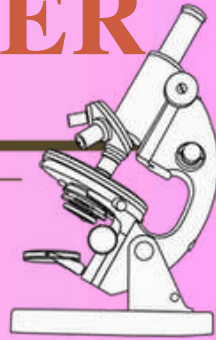
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### DESK MESSAGE



**Dr. Rajeswary Hari**  
**HOD of Biotechnology Department**

The Department of Biotechnology was started in the year 2003 with an objective of generating trained manpower in Biotechnology with disciplinary skills from Chemical engineering, Computer Science and Management Skills. Biotechnology is the application of Biology for industrial purposes such as development of vaccines, biomaterials reducing toxic waste by using microbial or enzyme based processes, development of new drugs for treating emerging and reemerging diseases, development of newer diagnostic methods for diagnosis of human diseases, development of crops with additional productivity or added advantages etc. The Research focus in our Department Involves methods to reduce environmental pollution by using micro organisms, identifying the plant products which can be used to treat diabetes, fasten the wound healing processes; understanding the role of SNP in critical gene in the development of cancer; and monitoring and understanding the mechanisms of antibiotic resistance in bacteria. The Dept. is supported by grants from the SERB, DST, DBT & CSIR. The department is motivating the students and faculties to actively involve in research programme and also to publishish articles in national and international journals & Conference The Department offers B.Tech and M.Tech Programs in Biotechnology, M.Tech in Medical Biotechnology and Ph.D. programs also.



*Rajeswary Hari*  
HOD Sign



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## ACHIEVERS



A huge congratulations to **B.M Pawan, S. Ganesh, Manav Vamshi and Sachin Raj** for winning the **1st prize** in Model Making at **Sarvasastra'24!** & awarded with a cash prize of ₹1000 for their creative work



Kudos to **Malarvizhi D.K, Athithi.S, and Amirtha Varshini.M** for their exceptional contributions in Magizh, for securing the 1st prize in "Harmony Heaven" along with a cash prize of ₹1000.



Congratulations to **Sreepooja Parthasarathy, Shivathmika, and Vedhika** for securing the **runner-up position** in both Model Making and Poster Making. . Well done!



## SEMESTER TOPPERS



**Saisri G K** of B.Tech Biotechnology (2022–2026) has secured the top rank in the Odd Semester V with an outstanding GPA of 9.58. Her dedication and excellence are truly commendable.

**Angelinadithy S A** of B.Tech Biotechnology (2021–2025) secured the top rank in the VII Odd Semester with an impressive GPA of 9.52. Her consistent excellence and commitment are truly admirable.





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## STUDENT CORNER



The ACS Advanced Medical Research Institute thanks Dr. Murugan Nandagopal of Lifecell Diagnostics for leading the impactful NGS workshop at ILLUMINATE 2024 on October 21. Kudos to B.Tech Biotech third-years **Meenakshi, Sri Ram, Abdur Rahman, Kiren, Kishore, and Mallesh** for their spirited participation!



On 22nd and 23rd October, paper and poster presentations were held, focusing on innovations and translational research. **Sreepooja Parthasarathy** presented a paper titled "**Green Synthesis of Silver Nanoparticles**" highlighting advancements in eco-friendly nanotechnology.

Hearty wishes to **Lavanya**, who secured the third place in techastra, under the event forensic fiesta



Congratulations to **Prasanth.E** for securing **1st place** in **Brain Buzz** and **3rd place** in the **Puzzle** competition.



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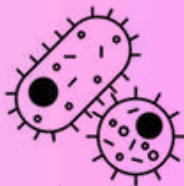
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## BT 24 JULY 2023 - 18 OCT 2023

### EVENT CORNER

# Biozone'24



**Biozone 24**, the National level symposium organized by **Department of Biotechnology** titled **Sea to Science: Innovations in Marine Biotechnology**. The primary goal of the symposium is to offer a forum for talking about and sharing the opinion on sea to science and innovations in marine biotechnology.

<p><b>Patrons</b></p> <p>Dr. S. Ganeshkumar Dr. C. B. Rajasekharan</p> <p><b>Chief Advisors</b></p> <p>Prof. R. M. Vasagam Dr. M. K. Padmanabhan Dr. G. Gopalsankaran Dr. D. Viswanathan</p> <p><b>Advisors</b></p> <p>Dr. V. Cyril Raj Dr. L. Ramesh</p>	<p><b>Co-convenor:</b> Dr. K. Ganesh</p> <p><b>Organizing Secretaries:</b> Dr. S. Karthikeyan Mrs. G. Sindhu</p> <p><b>Chief Advisors:</b> Mr. N. K. Radhakrishnan Dr. K. Aparna</p> <p><b>Student Organizers:</b> Mr. Tejashree A. Mr. K. Ramasathya Sriharan Ms. B. Padmapriya</p>	<p><b>DEPARTMENT OF BIOTECHNOLOGY</b> NATIONAL LEVEL SYMPOSIUM <b>BIOZONE '24</b> SEA TO SCIENCE: INNOVATIONS IN MARINE BIOTECHNOLOGY</p> <p><b>GOALS</b></p> <p><b>SAVE IN DATE</b></p>	<p><b>HONORARY ALUMNI</b></p> <p>Dr. S. S. Vaidyanathan Food Safety &amp; Quality Assurance Manager FSSAI INDIA Sengapal Thiruvananthapuram Kerala, India</p> <p><b>ACCESSION FEE - 0/-</b> (FOR EACH EVENT)</p> <p>On spot registration also acceptable</p> <p>Last date for online registration: 01/10/2023</p>	<p><b>PROBLEM SOLVING</b></p> <ul style="list-style-type: none"> <li>• CONNECTIONS</li> <li>• BRAIN BUZZ</li> <li>• GUESS WHAT</li> <li>• PUZZLE</li> <li>• PHONINESS</li> </ul> <p>For more Details, Contact: Organizing Committee Dr. Karthikeyan - 9500425644 Mr. Kalidasa - 7639542500 Mr. Anvitha - 9150578227 Mr. Thousif - 990048743</p>
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**Dr. A. Ganesh Kumar**, Scientist-E at the Ministry of Earth Sciences, and **Mr. G. S. Vaidyanathan**, Food Safety & Quality Assurance Manager at Dindigul Thalappakatti Hotels Pvt. Ltd., were honored as speakers and alumni at the BioZone event.





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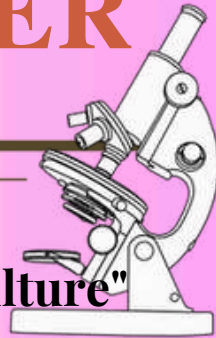
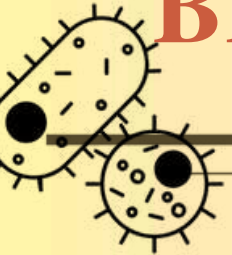
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## Industrial visit to Pondicherry

### "Exploring the Science of Shrimp Farming and Aquaculture"



Industrial visit conducted on 6th November 2024 for III<sup>rd</sup> year around 47 students from both "A" and "B" section of B.tech Biotechnology department.

IV arrangements were coordinated by our department staffs, Dr. Thirunavukkarasu, Mrs. Deepalakshmi, and Mrs. Aparna. There we visited "SUNSHINE AQ CARE PRIVATE LIMITED"



*2022-2026 batch*



Our shrimp cultivation experience provided insights into **prawn farming**, including **feeding**, **breeding**, and **freshwater/saltwater practices**. We learned advanced techniques, sustainable methods, and large-scale production from experts. A visit to **Sun AQ Care Private Limited** showcased marine biotechnology and ecosystem management, offering a deeper understanding of **modern aquaculture**.



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### STAR OF H4 (STAFF)



**Dr. Sri Devi M**  
Assistant Professeur  
M.Tech, Doctor of  
philosophy, PhD,  
Biotechnology

Congratulations to **Dr. Sri Devi M** on her admission to the Doctor of Philosophy program in Biotechnology. Her research on the "**Ameliorative Effect of Ethanolic Leaf Extract and Its Loaded Phytoniosomes of *Tinospora cordifolia* in Mifepristone-Induced PCOS Rats**" is a testament to her dedication to advancing scientific knowledge.

We wish her great success in her academic journey and impactful contributions to the field of biotechnology.



The Department of Biotechnology warmly welcomes its newest faculty members, whose expertise and enthusiasm will further enrich our academic and research environment:



**Ms. Anupriya S**  
Date of joining-22-08-2024  
Qualification- M.Tech Biotechnology  
Rajalakshmi Engineering College, Thandalam



**Mr. Yukesh B**  
Date of joining: 13/08/2024  
Assistant Professor M.sc in Biochemistry at University of Madras, Guindy campus.



**Ms. Priyanka**  
Date of joining: 15.07.2024  
Qualification- M.Tech Biotechnology  
Dr.M.G.R educational and research institute, chennai



**Ms. S. Ishwarya**  
Date of joining: 02:09:2024  
Qualification MSc biochemistry education  
Worked as a Teaching Assistant in DG Vaishnav college from 2019 to 2024



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### RESEARCH & INNOVATIONS

## Suresh S. Publishes High-Impact Review on Coronary Artery Disease



**Suresh S**

**B.Tech Biotechnology**

**2021-2025**



Congratulations to the final-year B.Tech Biotechnology student, under the expert guidance of **Dr. Thirunavukkarasu Palaniyandi**, on the remarkable achievement of publishing a review article titled **“Emerging Therapeutic and Diagnostic Strategies for Coronary Artery Disease”** in a prestigious journal with an **Impact Factor of 3.0 (2024)**. This comprehensive and cutting-edge article delves into groundbreaking advancements such as nanoparticles for targeted drug delivery, RNA therapeutics, and stem cell-based therapies, while also exploring exciting future trends like AI-driven diagnostics and minimally invasive treatment approaches. His research provides innovative and valuable insights into the evolving landscape of coronary artery disease management, marking a significant contribution to the field.



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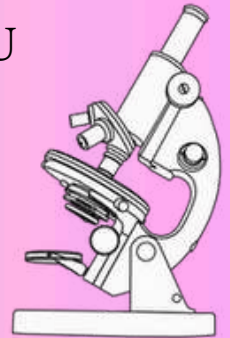
**Dr. P. THIRUNAVUKKARASU**

**M.Sc.,M.Phil.,Ph.D**

**Associate Professor Dr. MGR**

**Educational and Research**

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## MANAGING EDITORS



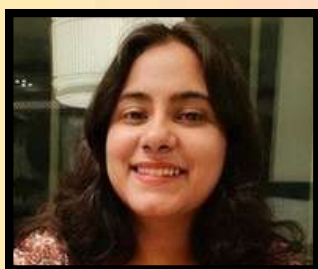
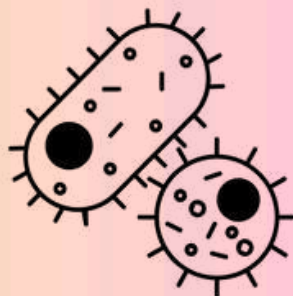
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