



Dr. M.G.R.

EDUCATIONAL AND RESEARCH INSTITUTE

(Deemed to be University with Special Autonomy Status)

Maduravoyal, Chennai - 600 095. Tamilnadu, India.

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BIOBYTES NEWSLETTER

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NEWS

H1 A
Newsletter
for the
Year 2023

BT





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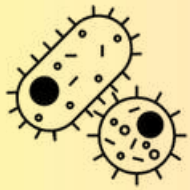
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DEPARTMENT VISION & MISSION

VISION

To strive towards the innovative knowledge in the domains 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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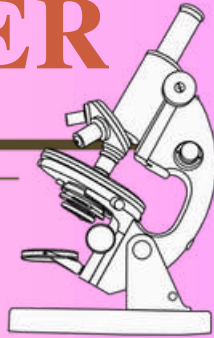
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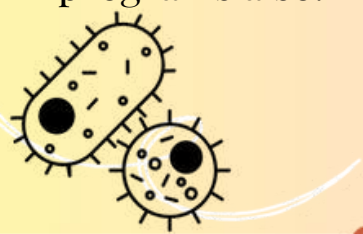


DESK MESSAGE



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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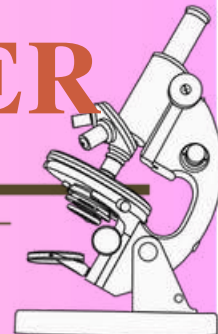
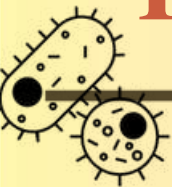


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ACHIEVERS



Congratulations to Hitarthi Sharma from the Biotechnology Department for her impactful AKC project Floral Waste Management ! Her work addresses the pressing issue of 8 millions of tonnes of floral waste causing environmental harm in India. Securing a 2.5 lakh funding is a testament to her dedication and innovative solutions. Wishing her great success in making a lasting environmental difference!

Hitarthi Sharma
Btech Biotechnology
[2022-26]



Congratulations to **Sandhiya M.** from B.Tech Biotechnology for achieving the top rank in even semester II with a remarkable GPA of 9.00! [2022-26]
Outstanding accomplishment!



Congratulations to **Angelinadithy S. A.** from B.Tech Biotechnology for securing the top rank in semester IV with an impressive GPA of 9.55!





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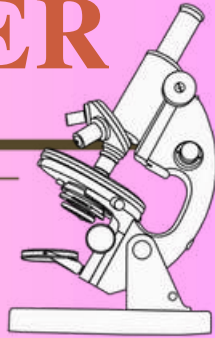
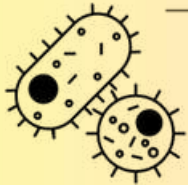
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STUDENT CORNER



**Sallakolusu.Venkata Swathi Btech
Biotechnology [2022-26]**

Sallakolusu. Venkata Swathi.... participated in International level of Karate Federation Championship(karate of Budokan) conducted in Telangana state of Hyderabad at Kotla Vijaybhaskar Reddy indoor Stadium

**Hitarthi Sharma Btech Biotechnology
[2022-26]**

Hitarthi Sharma, from the Department of Biotechnology, participated in the National Seminar "Space-2.0" which was conducted by Dr MGR-ACS Technology Centre and Indian Technology Congress Association.



**Sreepooja Btech Biotechnology
[2022-26]**

Sreepooja from the department of biotechnology participated in the "National Mathematics day" conducted by faculty of H&S in mathematics department won 1st prize math modeling and quiz- cash prize -₹700 each





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EVENT CORNER



“SARVASASTRA 2K23”

The Department of Biotechnology held the national conference “SARVASASTRA 2K23” on April 5-6, 2023. Day 1 featured addresses by Dr. Rajeswary Hari, Dr. S. Geethalakshmi, Dr. D. Viswanathan, and Dr. V. Cyril Raj. Chief guest Dr. N. Ashwin Kumar spoke on nanotechnology and microfluidics in cancer diagnostics.



Day 2 of “SARVASASTRA 2K23” included a recap by Dr. K.J. Sharmila and a talk by Ms. Madhura Ashokkumar on Alzheimer’s disease. The valedictory session featured addresses by Dr. G. Gopalakrishnan and Dr. N. Ethiraj, concluding with prize distribution and a vote of thanks to key supporters.





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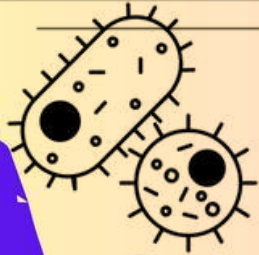
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ALUMINI



"Current Challenges for Higher Education and Work Opportunities in the UK"



Mr. Mohammed Hashique

A seminar on "Current Challenges for Higher Education and Work Opportunities in the UK" was organized for final-year Biotechnology students in association with the Office of International Relations on July 21, 2023. Mr. Mohammed Hashique, Regional Marketing Manager - South India, SIUK, detailed opportunities for higher studies in the UK, competitive exams, university options, required scores, procedures, and extracurricular activities. He also discussed work prospects in the UK. The interactive session saw active student participation, with many questions posed about future opportunities. The seminar provided students with valuable insights into higher education and career prospects in the UK and neighboring countries.



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STAR OF H₁ (STUDENT)

Congratulations to the incredible team of **Amrith G. R., Prasanth E., Priya Dharshini B., Sanjay S., Suheerthana Sivahini S., and Tejaswari A.**

from the Department of Biotechnology for winning 1st prize at Sarvasatra 2023 Science Expo on March 2, 2023! Your hard work and innovation, recognized by the esteemed HODs and VP, have earned this well-deserved cash prize.



STAR OF H₁ (STAFF)

Dr. P. THIRUNAVUKKARASU

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

Associate Professor Dr. MGR

Educational and Research Institute

Congratulations to Dr. P. Thirunavukkarasu for being honored with the prestigious "Star Author" award in the Premium category by The Sir C. V. Raman Journal Club Mgr Publish Awards Challenge 999! Receiving a medal, certificate, cash prize, and a memento is a testament to your exceptional contributions and dedication. Well-deserved recognition!





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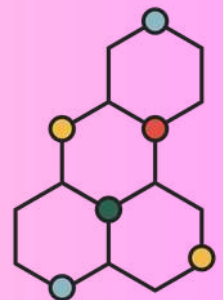
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RESEARCH & INNOVATIONS



Sneha V
B. Tech Biotechnology
2020 - 2024

Congratulations to Sneha V, a final-year B.Tech Biotechnology student, for her exceptional achievement in publishing a review article in the prestigious Elsevier Journal Clinica Chimica Acta (IF: 5.0, H-index: 167) in 2023! Titled "Prospectives and Retrospectives of Microfluidics Devices and Lab-on-Chip: Emphasis on Cancer," this insightful work, guided by Dr. Thirunavukkarasu Palaniyandi, explores cutting-edge advancements in microfluidic devices for cancer theranostics. The article delves into breakthroughs in medical applications, the evolution of microfluidics, and emerging platforms like organ-on-chip and lab-on-chip, highlighting their significant role in advancing cancer diagnosis and treatment. Sneha's research emphasizes the potential for more precise, tailored medication and point-of-care diagnostics, making a substantial contribution to the field. With a cumulative impact factor of 15.2, her work stands as a testament to her dedication, expertise, and academic excellence. Wishing her continued success as she embarks on her future endeavors in biotechnology and research!





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