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Principal & Secretary
Dr. J. Paul Jayakar

Bursar

Dr. M. Beaula Ruby Kamalam

Director i/c - Satellite Campus

Dr. P. F. E. Divakaran

Head

Coordinator-MBSI

Dr. K. Nithya

Organizing Secretaries

Dr. A. Rajeshwari

Ms. A. Zibia Kasturi Gratia

Committee Members

Mr. S. Ahil Rishi Rajasekaran

Dr. D. Arul Ananth

Dr. P. Kiruthika Lakshmi

Dr. Patterson Clement

Dr. T. Shanthini

Mrs. K. Shanthi



Registration Fee: Rs 250

(Participants will be provided with registration kit,
working lunch, refreshments and certificates)



<https://forms.gle/995XV7ReNAQ4Mdsn8>

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SINCE 1881

THE AMERICAN COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited(3rd cycle) by NAAC with Grade "A+" CGPA-3.47 on a 4- point scale
Madurai - 02

Department of Biotechnology

In Association With

Microbiologists Society, India



INTERNATIONAL SEMINAR

ON

**"EMERGING FRONTIERS
AND INNOVATION IN
BIOTECHNOLOGY"**

@ Eva M Swift Hall

13 August 2025

ABOUT THE COLLEGE

The American College, a higher education known for its focus on academic excellence and social relevance. Its pioneering role in the development of College autonomy in India, its successful early implementation of Choice Based Credit System in 1978 and its completion of 144 years of service bear testimony to the position that the college currently enjoys. The Satellite Campus of the American College is located on Natham Highway in Chatrapatti. The campus provides excellent modern infrastructure for students of all disciplines and students have the privilege of studying in the tranquil and idyllic campus.

ABOUT THE DEPARTMENT

The Department of Biotechnology at The American College stands out for its exceptional resources and opportunities designed to foster academic and professional growth. Our fully equipped labs feature advanced instruments, enabling students and researchers to conduct cutting-edge experiments and investigations. The highly qualified faculty members possess robust research backgrounds, ensuring that students receive outstanding education and mentorship.

The Department of Biotechnology is hub of innovation, learning, and professional development, committed to preparing competent students in the rapidly evolving field of Biotechnology.

ABOUT THE MBSI

The Microbiologists Society, India (MBSI) promotes microbiology through education, research, and collaboration, offering courses and fostering institutional relationships. It was founded in 1996, it supports students, faculty, conferences and research initiatives in life sciences.

ABOUT THE SEMINAR

Emerging Frontiers and Innovation in Biotechnology is entering a transformative era, with emerging frontiers reshaping how we approach health, agriculture, industry, and the environment. Innovations such as Genome editing, Synthetic biology, and Personalized medicine are revolutionizing the development of new therapies, sustainable products, and efficient agricultural practices.

Advanced tools like CRISPR-Cas9 allow for targeted genetic modifications, offering hope for curing inherited diseases and improving crop resilience. Synthetic biology enables the design of custom organisms for applications in medicine, biofuels, and waste management. Meanwhile, AI and bioinformatics are enhancing data analysis, speeding up drug discovery, and enabling precision healthcare. In agriculture, biotechnological innovations support climate-smart crops and sustainable farming practices, addressing global food security. The rise of biomanufacturing and regenerative medicine highlights the shift toward cleaner, more efficient biological systems for production and treatment. Overall, these frontiers reflect a multidisciplinary synergy, with enormous potential to solve global challenges and improve quality of life.

Resource Persons



Dr. V. Shanmugaiah

President of MBSI
Senior Grade Assistant Professor,
Department of Microbial Technology,
School of Biological Sciences,
Madurai Kamaraj University.



Dr. Madavan Vasudevan

Founder & CEO
at
Theomics International Pvt Ltd.



Dr. Sekar Vijayakumar

Post Doctoral Research Fellow
College of Material Science &
Engineering,
Huaqiao University, China.



Dr. Gowri Priya Chidambaranathan

Scientist
Immunology & Stem Cell Biology,
Aravind Medical Research Foundation.