



**JAMAL MOHAMED COLLEGE (AUTONOMOUS)**  
**Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with 3.69 out of 4.0**  
**(Affiliated to Bharathidasan University)**  
**Tiruchirappalli – 620 020**

**P.G. & RESEARCH DEPARTMENT OF MICROBIOLOGY**  
**REPORT OF THE INTERNATIONAL CONFERENCE ON**  
**EMERGING TRENDS IN MICROBIAL TECHNOLOGY**  
**(ICETMT-2024) - 24-01-2024**

The International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) was organized by PG and Research Department of Microbiology, Jamal Mohamed College, Tiruchirappalli in association with Microbiologist Society, India on 24-01-2024 from 9.30 am to 6.20 pm in N.M. Khajamian Rowthar Hall (A/C). The Inaugural ceremony was started with Qirath by R. Sumaya Banu of I M.Sc., Microbiology. Dr. M. Mohamed Mahroop Raja, Assistant Professor and Head, Department of Microbiology, welcomed the gathering. Felicitation was given by our honourable Additional Vice Principal Dr. A. Ishaq Ahamed. The theme of the conference was proposed by Mrs.A. Swedha, Assistant Professor, Department of Microbiology. The tycoon of this International conference was Dr. T. Thirumurugan, Associate Professor of Plant Breeding and Genetics, Tamil Nadu Agricultural University, Coimbatore inaugurated the programme and delivered the keynote address. Dr.H. Vajiha Banu, Assistant Professor of Microbiology proposed the Vote of thanks for the inaugural session.

The first technical session began with the delegate Dr.C. Ravindra Singh, Chief Scientist, Research and Innovation, Aakash Plantation, L.L.C, Dubai, UAE on the topic “Role of Microbes in Plant Growth and Plant Medicine”. After the Tea break the second session was proceeded by Mr. R. Mohan Ram, Technical officer- “C”, Defence Bio-Engineering and Electro Medical Laboratory, DRDO, Bengaluru delivered the session on the topic “Bioremediation of Marine Oil Spills using Obligate Marine Hydrocarbon Clastic Bacteria”. The session was followed by Oral and Poster presentations from interested participants from various Institutions.

Dr. M. Mohamed Imran, Assistant Professor of Microbiology, National College (Autonomous) and Dr. A. Aslam, Associate Professor, Department of Botany acted as judges for the Oral presentation and Dr. K. Mohamed Rafi and Dr. N. Ahamed Sherif, Assistant Professors, Department of Botany, Jamal Mohamed College (Autonomous) acted as judges for the poster presentation. Around 45 members have participated in oral presentation and 48 members have participated in poster presentation.

After Lunch break, the third technical session was done by Dr. B. Ravindran, Assistant Professor, Department of Environmental Energy and Engineering, Kyonggi University, Suwon–si, Gyeonggi-do, 16227, Korea gave a speech on the topic “Exploring the Potential Bio char Amendment Effect on Microbial and Nutrient Dynamics during Livestock Manure Management”. The fourth plenary session was undertaken by Dr. M. Vasanthy, Professor, Water and Solid Waste Processing Lab,

Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli on the topic “Application of Microbes Ensuring Sustainability”.

Valediction of the conference was started with Qirath by S. Raihana Banu, III B.Sc., Microbiology. The welcome address for the Valediction ceremony was given by DR.N. Reehana, Assistant Professor of Microbiology. Dr. M. Syed Ali Padusha, IQAC Coordinator, Jamal Mohamed College delivered the felicitation address. The Valedictory address was delivered by Dr. D. Dhanasekaran, Associate professor, Department of Microbiology, School of Life Sciences, Bharathidasan University. The report of the seminar is being presented by Mrs. N. Vennila, Assistant professor, Department of Microbiology. The distributions of the certificates for the Oral and Poster presentation winners and to participants of various colleges were given by Mr. R. Mohan Ram, Dr. D. Dhanasekaran and Dr. M. Syed Ali Padusha. The vote of thanks was proposed by K. Vijayalakshmi, Assistant professor and Vice president, Department of Microbiology. 239 participants were registered and attended our international conference. Participants have participated from various institutions of The Copper Belt University, Ndola, Zambia, NSS College Nilamel, Kollam, Kerala, Bharathiyar University, Periyar University, Pondicherry University, Bharthidasan University, SRM College of Arts and Science, Kattankulathur, Chennai, Apollo Arts and Science, Chennai, Women’s Christian College V.O. Chidambaram College, Tuticorin, Muslim Arts College, Thiruvithancode, Government Arts College, Ariyalur, Sri Bharathi College of Arts and Science, Thanjavur, Bharath College of Management, Thanjavur, Hajee Karutha Rowther Howdia College, Uthamapalayam, Vinayaka Missions's Medical College & Research Institute ,Karaikal, Valliammai Womens College of arts and science, Arakandanallur, Villupuram, The Standard Fireworks Rajaratnam College for women, Sivakasi, A.V.C College (Autonomous), Mayiladuthurai, Sri Venkateshwara College of Arts and Science for Women , Peravurani, Sengamala Thayaar Educational trust ,Mannargudi. American College, Madurai, Hans Rover College, Perambalur, Srinivasan College and Dhanalakshmi Srinivasan college, Perambalur, Excel College, Namakkal, Marudupandiyar College, Thanjavur, Srimad Indira Gandhi College, National College, Cauvery college, Holy cross College, and from the Department of Botany, Biotechnology, Chemistry, Nutrition and Dietetics and Zoology, Jamal Mohamed College. All invited speakers addressed to audience and shared knowledge and experiences on recent research with microbes. This program featured a wide variety of invited and contributed lectures from international and national speakers about the challenges, opportunities and recent advances in Microbiology. The conference concluded with the National Anthem.



**Invitation of the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024)  
on 24-01-2024 in N.M. Khajamian Rowthar Auditorium.**

*Valediction*

Time : 4.15 p.m.

Welcome Address : **Dr. N. REEHANA**  
Assistant Professor & Organising Secretary, ICETMT-2024

**FEEDBACK BY PARTICIPANTS**

Presidential Address : **Dr. D.J. GEORGE AMALARETHINAM**  
Vice Principal

Presentation of Conference Report : **Ms. N. VENNILA**  
Assistant Professor

Felicitations : **Dr. A. K. KHAJA NAZEEMUDEEN**  
Secretary & Correspondent

**Hajee M. J. JAMAL MOHAMED**  
Treasurer

Valedictory Address : **Dr. D. DHANASEKARAN**  
Professor, Department of Microbiology, School of Life Sciences  
Bharathidasan University, Tiruchirappalli - 620 024.

Vote of thanks : **Ms. K. VIJAYALAKSHMI**  
Assistant Professor & Organising Secretary, ICETMT-2024

**National Anthem**

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**Tiruchirappalli – 620 020**  
**Tamil Nadu, India**

**P.G. & Research Department of Microbiology**  
in association with  
**Microbiologists Society, India**  
Organizes

**3<sup>rd</sup> International Conference on  
Emerging Trends in  
Microbial Technology  
(ICETMT - 2024)**

**24<sup>th</sup> January 2024**

**Venue : N.M. Khajamian Rowthar Auditorium**

*M. N. N. 24/1/24*  
Department of Microbiology  
Jamal Mohamed College  
Tiruchirappalli-620 020



*Inauguration*

8.30 am : **Registration**

9.30 am : **Inauguration**  
Qirath  
Tamilthai Vazhthu

Welcome Address : **Dr. M. MOHAMED MAHROOP RAJA**  
Head & Convener ICETMT-2024

Presidential Address : **Dr. S. ISMAIL MOHIDEEN**, Principal

Theme of the Conference : **Ms. A. SWEDHA**, Assistant Professor

Felicitations : **Dr. A. K. KHAJA NAZEEMUDEEN**, Secretary & Correspondent

**Hajee M. J. JAMAL MOHAMED**, Treasurer

**Dr. K. ABDUS SAMAD**, Assistant Secretary

**Dr. K.N. ABDUL KADER NIHAL**, Member & Hon. Director

**Release of Conference Proceedings**

Inaugural & Keynote Address : **Dr. T. THIRUMURUGAN, Ph.D. (Japan)**  
Associate Professor (Plant Breeding & Genetics)  
Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India.

Vote of thanks : **Dr. H. VAJIHA BANU**  
Assistant Professor

*Technical Sessions*

10.30 a.m. – 11.15 a.m. : Session - I  
**Dr. C. RAVINDER SINGH**  
Chief Scientist, Research and Innovation, Aakash Plantation L.L.C,  
Dubai, UAE.  
Title : **Role of Microbes in Plant Growth and Plant Medicine**

11.15 a.m. - 11.30 a.m. : **TEA BREAK**

11.30 a.m. – 12.15 p.m. : Session - II  
**Mr. R. MOHAN RAM**  
Technical Officer-'C', Defence Bio -Engineering and Electro  
Medical Laboratory - DRDO, Bengaluru  
Title : **Bioremediation of Marine Oil Spills using Obligate  
Marine Hydrocarbonoclastic Bacteria**

12.15 p.m. – 1.15 p.m. : **ORAL PRESENTATION / POSTER PRESENTATION**

1.15 p.m. - 2.30 p.m. : **LUNCH BREAK**

2.30 p.m. - 3.15 p.m. : Session III  
**Dr. B. RAVINDRAN**  
Assistant Professor, Department of Environmental Energy & Engg.  
Kyonggi University, Suwon – si, Gyeonggi – do, 16227 Korea  
Title : **Exploring the Potential Biochar Amendment Effect on  
Microbial and Nutrient Dynamics during Livestock  
Manure Management**

3.15 p.m. - 4.00 p.m. : Session IV  
**Dr. M. VASANTHY**  
Professor, Water and Solid Waste Processing Lab  
Dept. of Environmental Biotechnology, School of Environmental Sciences,  
Bharathidasan University, Tiruchirappalli-620 024.  
Title : **Applications of Microbes Ensuring Sustainability**

4.00 p.m. - 4.15 p.m. : **TEA BREAK**

*M. N. N. 24/1/24*  
Department of Microbiology  
Jamal Mohamed College  
Tiruchirappalli-620 020

The P.G & Research Department of Microbiology in association with Microbiologists Society, India organizes International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024 in N.M. Khajamian Rowthar Auditorium. The programme started with Qirath.



Participants from the outside colleges register themselves in spot registration in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024 in N.M. Khajamian Rowthar Auditorium organized by the P.G & Research Department of Microbiology in association with Microbiologists Society, India



**Dr. M. Mohamed Mahroop Raja, Head, Department of Microbiology welcomed the gathering in International Conference on the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**The Presidential address was delivered by our honourable Vice Principal Dr.A. Ishaq Ahamed in International Conference on the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



Theme of the Conference was proposed by Ms. A. Swedha, Assistant Professor of Microbiology in International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.



The Release of the souvenir at the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024 by the Vice Principal of Jamal Mohamed College Dr.A. Ishaq Ahamed with the Resource Persons Dr. C. Ravinder Singh, Chief Scientist, Dr. T. Thirumurugan, Associate Professor, Department of Plant Breeding and Genetics, Dr. B. Ravindran, Associate Professor, Department of Environment Energy and Engineering, Mr.R.Mohan Ram, Technical Officer- C Grade, DRDO and Dr. J. Sirajudeen, Associate Professor, Department of Chemistry.



**Participants in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024)  
on 24-01-2024.**





**Dr. T. Thirumurugan, Associate Professor of Plant Breeding and Genetics, Tamil Nadu Agricultural University, Coimbatore inaugurated the programme and delivered the keynote address in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**Dr.H.Vajiha Banu, Assistant Professor of Microbiology proposed Vote of Thanks for the Inaugural Session in the ICETMT-2024 on 24-01-2024.**



**Dr.C. Ravindra Singh, Chief Scientist, Research and Innovation, Aakash Plantation L.L.C, Dubai, UAE, delivered the session on the topic “Role of Microbes in Plant Growth and Plant Medicine” in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**Mr M. Mohan Ram, Technical Officer –“C”, Defence Bio- Engineering and Electro Medical Laboratory, DRDO, Bengaluru delivered the session on the topic “Bioremediation of marine Oil Spills using Obligate Marine Hydrocarbon clastic Bacteria” in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**Oral and Poster presentation from interested participants of various Institutions in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024. Dr. M. Mohamed Imran, Assistant Professor of Microbiology, National College (Autonomous) and Dr. A. Aslam, Associate Professor, Department of Botany acted as judges for the Oral presentation.**



**Poster presentation from interested participants of various Institutions in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024. Dr. K. Mohamed Rafi and Dr. N. Ahamed Sherif, Assistant Professors, Department of Botany, Jamal Mohamed College (Autonomous) acted as judges for the poster presentation.**



**Dr.B.Ravindran, Assistant Professor, Department of Environmental Energy and Engineering, Kyonggi University, Suwan-si, Gyeonggi-do,16227 Korea gave a speech on the topic “Exploring the Potential Bio char Amendment Effect on Microbial and Nutrient Dynamics during Livestock manure management” in the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**Dr. M. Vasanthy, Professor, Water and Solid Waste Processing Lab, Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli delivered on the topic “Application of Microbes Ensuring Sustainability”.**



**Dr.N.Reehana, Assistant Professor of Microbiology, Jamal Mohamed College proposed the Welcome Address in the Valediction of the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**Mrs. N. Vennila, Assistant Professor of Microbiology, Jamal Mohamed College presented the Report of the Conference in the Valediction of the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**Dr. M. Syed Ali Padusha, Coordinator of IQAC Jamal Mohamed College delivered the felicitation address in the Valediction of the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



**The Valedictory address was delivered by Dr. D. Dhanasekaran, Associate professor, Department of Microbiology, School of life sciences, Bharathidasan University in the International Conference Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.**



The distribution of the certificates for the Oral and Poster presentation winners, participants were given by Mr. R.Mohan Ram, Dr. D. Dhanasekaran and Dr. M. Syed Ali Padusha, Coordinator of IQAC.





Feedback were given by the participants in the International Conference Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.



Mrs. K. Vijayalakshmi, Assistant Professor of Microbiology, Jamal Mohamed College proposed the Vote of Thanks in the Vaediction of the International Conference on Emerging Trends in Microbial Technology (ICETMT-2024) on 24-01-2024.

