

NATIONAL CONFERENCE

February 22 & 23 2023



Department of Science & Technology
Government of Gujarat



MICROBIOMES TO MACROMOLECULES: CONNECTING THE DOTS



Core Themes

1. Environmental Microbiomes
2. Microbial Interactions in the ecosystem
3. Secondary metabolites and Biotech applications
4. Bio macromolecules used in industrial productions
5. Natural and synthetic macromolecules with applications

Organized by

Department of Microbiology and Biotechnology
(Supported by DST-FIST),
University School of Sciences,
Gujarat University,
Ahmedabad 380 009



About the Conference



Microbial communities are a pervasive and central part of every ecosystem on the planet. Since their discovery, scientists have been able to detect, characterize them and analyze their metabolites and macromolecules. Microbiomes provide accessible insight into the novel and complex world of polymicrobial community interactions. The microbial world has been studied intensively since the invention of the microscope. With the advent of molecular genetics, recombinant DNA, and rapid DNA sequencing, many microbes are well understood and form the core of both basic and applied biological research. Sequencing and identifying microbial macromolecules and metabolites, standardization of bioinformatics tools, and development and their biotech applications is the need of the hour. Microbial technology today leads in - (1) to act as biological computers to sense and to respond to events in their environment that cannot be directly observed; (2) to serve as chassis for chemical engineering to produce macromolecules and metabolites of value more sustainably; (3) to create synthetic microbes with vast implications for environment and society.

Considerable challenges exist in determining the functional roles of microbiomes or complex microbial communities in the environment. Each step along the omics pipeline provides different details as to potential function or expression. These microbial and metabolite products must be able to facilitate the design and maintenance of more resilient and productive ecosystems to support food production, health promotion, pollution remediation, and global environmental stability.

About the Department

The Department of Microbiology and Biotechnology is a dynamic and flexible organization with local focus. It was established in the year 1976 in University School of Sciences at Gujarat University. Department offers the M.Sc., & Ph.D. programmes in the subject of Microbiology and Biotechnology. Major thrust areas of the Department are systematic bacteriology, industrial and environmental microbial technology. Department is having faculties with specialization in various areas of microbiology and they have guided Ph.D. students in various fields such as Plant and Soil Microbiology, Biofortification, Biofertilizer, Biocontrol Mechanisms, Environmental Microbiology and Bioremediation. Department is shaping the future of students by building bridges with industry and connecting the various disciplines, institutions and community.

Invited Speakers



Shri Sanjeev K Varshney

Scientist G, Department of Science & Technology (DST), Govt. of India

Dr. Rajesh Arora

Senior Scientist and Additional Director, Govt. of India, Ministry of Defence, DRDO, Defence Institute of Physiology & Allied Sciences, New Delhi

Prof. Riyaz Sayyed

Head Department of Biotech, North Maharashtra University, Nanded, Maharashtra

Prof. Rajeshwar P Sinha

Center of Advance Study Botany, Banaras Hindu University (BHU), Varansi

Prof. Ujjval B Trivedi

Head, Department of Bio Sciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India.

Dr. Anand Bhadalkar

Joint Director, Gujarat State Biotechnology Mission (GSBTM), Govt. of Gujarat

Dr. Shailendra Gaur

Deputy General manager in cell culture, Mylan global biologics, Hyderabad

Call for abstract

The abstract should be sent as soft copy by e-mail and hard copy after acceptance with registration form and fees to the Convener, latest by **5th February 2023**. All the accepted abstracts will be published in Souvenir. Prizes will be awarded for the best oral and poster presentation and full-length paper of the three awardees in both categories shall be published in the reputed journal.

Abstract detail

The title of paper should be in capital, bold and with (14 font size Times New Roman) Name of authors should be bold, and center aligned (12 font size Times New Roman), affiliations and E-mail. The name of corresponding author should be underlined. The abstract should be precise, contain in maximum 300 words including introduction, methodology, highlights of results and conclusion.

The abstract should be sent by E-mail at: **mibit.nc2023@gmail.com**

Detailed programme shall be sent by E-mail to registered participants only.

Best oral and poster presenter will be awarded.



Patron

Prof. (Dr.) H. A. Pandya

Hon. Vice Chancellor,
Gujarat University

Co-Patron

Dr. P.M. Patel

Registrar,
Gujarat University

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Prof (Dr.) Meenu Saraf

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School of Sciences, Gujarat University
Professor and Head,
Department of Microbiology and
Biotechnology

Organizing Secretary

Dr. Rakesh Panchal

Associate Professor,
Department of Microbiology and
Biotechnology

Co-ordinators

Dr. Devayani Tipre

Dr. Kiransinh Rajput

Dr. Vikram Raval

Dr. Dweipayan Goswami

Contact Details

For all the queries and information
please mail at
mibit.nc2023@gmail.com and we
will provide response within 24 hrs.

Important Dates

Abstract submission:

5th February 2023

Registration deadline:

10th February 2023

Account Details

Account Name: MIBIT SOCIETY

Account No.: 35973959302

Branch ID: 02651

IFSC Code: SBIN0002651

*Upload Screenshot of payment in
the registration form*

Registration Details

PG students: ₹ 800/-

Research students: ₹ 1000/-

Faculty : ₹ 1200/-

Industry Delegates: ₹ 1500/-

Registration Form : <https://forms.gle/9yCk1KYg8p6X34pJ6>





G20 nations

The Group of Twenty (G20) is the premier forum for international economic cooperation. It plays an important role in shaping and strengthening global architecture and governance on all major international economic issues. **India holds the Presidency of the G20 from 1 December 2022 to 30 November 2023.**

Member countries

The Group of Twenty (G20) comprises 19 countries (Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, Republic of Korea, Mexico, Russia, Saudi Arabia, South Africa, Türkiye, United Kingdom and United States) and the European Union. The G20 members represent around 85% of the global GDP, over 75% of the global trade, and about two-thirds of the world population.

Invited International Organisations

In addition to the regular International Organisations (UN, IMF, WB, WHO, WTO, ILO, FSB, and OECD) and Chairs of Regional Organisations (AU, AUDA-NEPAD, and ASEAN), India, as G20 Presidency, will be inviting ISA, CDRI and ADB as Guest IOs.

G20 Logo and Theme

The G20 Logo draws inspiration from the vibrant colors of India's national flag – saffron, white and green, and blue. It juxtaposes planet Earth with the lotus, India's national flower that reflects growth amid challenges. The Earth reflects India's pro-planet approach to life, one in perfect harmony with nature. Below the G20 logo is "Bharat", written in the Devanagari script.

The theme of India's G20 Presidency - "Vasudhaiva Kutumbakam" or "One Earth-One Family · One Future" - is drawn from the ancient Sanskrit text of the Maha Upanishad. Essentially, the theme affirms the value of all life – human, animal, plant, and microorganisms – and their interconnectedness on the planet Earth and in the wider universe.

The theme also spotlights LiFE (Lifestyle for Environment), with its associated, environmentally sustainable, and responsible choices, both at the level of individual lifestyles as well as national development, leading to globally transformative actions resulting in a cleaner, greener and bluer future.