



Vidya Prasarak Mandal's

B. N. Bandodkar College of Science (Autonomous), Thane

NAAC Re-accredited 'A' Grade, College With Potential for Excellence (CPE), Best College Award, ISO 9001: 2015 Certified, Recipient Of RBNQA Commendation Certificate From IMC, Recipient Of Jagar Janivancha Awards Of Govt. Of Maharashtra, Supported Under - Fist O Level (Min. Of Sci. & Tech.) & DBT Star College Scheme

Departments of Biotechnology, Microbiology, Biochemistry,
Botany, Human Science & Interdisciplinary Science

In collaboration with
Mycological Society of India
Mumbai Unit
Organize

National Conference on

Microbiome: The Story Untold !



7th & 8th January, 2022

Online Platform: Microsoft Teams

Register [Here](#)

IMPORTANT DATES:

First preparatory workshop

25th September, 2021

Second preparatory workshop

10th & 11th December, 2021

Last Date for abstract submission

4th December, 2021

Last date for full length paper
submission

18th December, 2021

National conference

7th & 8th January, 2022

Preamble

Microbiome - the catalogue of microbes and their genes, has been the priority research area being extensively explored in last two decades. The term 'Microbiome', was coined by Joshua Lederberg in 2001. It is often used interchangeably with Microbiota - which refers to microbial taxa associated with a particular environment. The field has brought paradigm shift away from studying 'single, specific' microbes to a more holistic microbiome approach. It is evolving rapidly and has generated information that is of great interest, not only for scientific fraternity, but for general public at large. Microbiome research encompasses studies on understanding the behaviour, interactions and functions of microbial communities within a specific environment. Innovative, cost-effective, high-throughput screening technologies and modern computational skills has proved conducive for massive data flood in this area.

Extensive research in this arena has made us aware that humans are known to be colonized with more than trillions of bacteria, with the gut microbiome being equipped with a metabolic potential equivalent to a 'virtual/ exteriorized organ' within the gastrointestinal tract! The microbiota changes according to diet, age, lifestyle, climate and geography, genetic make-up, early microbial exposure and health status of the host. Its role in health, immune status and disease has been the area of intense research. Understanding microbiome of a population, integrated with artificial intelligence, has not only led to newer strategies of diagnosis, management, and treatment of diseases, but has also widened the doors of personalized medicine. India especially holds an unparallel setup for human microbiome studies because of the extensive genetic diversity, dietary habits, ethnicity, cultural connections and changing lifestyle of the population.

Diverse geographical locations and ecosystems also hold a promising potential to undertake research related to plant systems. It has been reported that, an effective plant microbiome can offer benefits to its host, including plant growth promotion, nutrient use efficiency, and control of pests and phytopathogens. This necessitates the immediate need to utilize functional potential of plant-associated microbiome and its innovation into crop production and unlock new opportunities for the design of more efficient microbial consortia for enhancing crop productivity and the restoration of soil health.

Other than fundamental interests to improve Human health and Agriculture, microbiome research holds great promises in various fields like ecology, personalized modern medicine, forensics to even exobiology. Advances in engineering of environmental microbiomes will replace toxic chemicals in agri-, horti-, and aquaculture in the future and stimulate a more sustainable use of environmental resources, as well as improve food processing. Agricultural products based on the microbiota are one of the fastest growing sectors in agronomy with a Compound Annual Growth Rate (CAGR) of 15-18% and a predicted value of over 10 billion US dollars by 2025.

We are organising the conference on 'Microbiome: The Story Untold!' to uncover this 'hidden treasure', wherein we would host invited talks, research paper presentations and discussions on Human Microbiome, Environmental Microbiome, Plant-Microbe interactions, Probiotics and Functional Foods and advances in computational approaches in the field of microbiome research. The conclave aims to bring together scientists, research scholars, industry professionals, academicians and students to exchange their experiences about various aspects of microbiome research. In view of microbiome research in India being in infancy, such platform would initiate a dialogue amongst all the stakeholders and be instrumental in generating and motivating young students to explore further 'this' field of research!

Organizing Secretary
Dr. Kalpita Mulye and Dr. Jayashree Pawar

All the peer reviewed research papers would be published in the Conference Proceedings with ISBN.

Registration charges	Amount (in Rs.)
Participation without Publication	300/-
Participation with Publication	850/-

Kindly note that all the authors of the research article will have to register for the conference.

Registration fees can be paid by

- Online payment: A/c No. 0043101100000002,
IFSC code: BKID0000043, Branch: Shivaji Path, Thane
- Registration can be done before the deadline using link:
<https://forms.gle/vU7RMqQRdYRP36FC9>
- Correspondence: mbtsu2022@gmail.com

Eminent Speakers of the National Conference



Dr. Yogesh Shouche
Scientist, National Center for
Cell Science, Pune



Dr. Ashwin Kotnis
Associate Professor,
AIIMS, Bhopal



Dr. Vineet Sharma
Associate Professor,
IISER, Bhopal



Dr. Anil Kumar
Scientist, National
Institute of Immunology,
Delhi



Dr. Naveen Arora
Scientist, FISEB



Dr. Hemant Purohit
Former Head,
Environmental Genomics
Unit, NEERI, Nagpur



Dr. Parikshit Prayag
MD, Infectious Diseases,
Deenanath Mangeshkar
hospital, Pune

Chief Patron

Dr. V. V. Bedekar
Chairman, Vidya Prasarak Mandal

Convener

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Principal, B N Bandodkar College of Science, Thane

Organizing Secretary

Dr. Kalpita Mulye
Coordinator, Dept. of Microbiology

Dr. Jayashree Pawar
Coordinator, Dept. of Biotechnology

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Research Centre (SRC)

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Former Assistant Director,
Piramal Life Sciences, Mumbai

Dr. Shilpa Verekar

HOD, CQA Laboratory,
Parle Agro Pvt. Ltd.



Departments of
Biotechnology, Microbiology,
Biochemistry, Botany & Interdisciplinary Science
Present

Vidya Prasarak Mandal's

B N Bandodkar College of Science
(Autonomous), Thane

25th September
2021
3 – 5 pm
On Microsoft
Teams
[Join Here](#)

**1st Pre-Conference
Workshop
Of National Conference**
on

Microbiome: The Story Untold !

Topic:
The Curtain Raiser



Dr. Kalpita Mulye
Head, Dept of Microbiology

Topic:
16S rRNA gene analysis:
Important Tool in
Microbiome Research



Dr. Jayashree Pawar
Head, Dept of Biotechnology

E-certificates will be given to all participants who attend the workshop completely and fill the feedback form.

Join 15 minutes before to avoid any technical issues.

Upcoming Events

2 nd Pre-Conference Workshop	27 th November, 2021
National Conference	7 th & 8 th January 2022

Themes of the conference:

Human Microbiome

Plant Microbiome

Environmental Microbiome

Probiotics & Functional Foods

Advances in Computational Research

Contact : mbtsu2022@gmail.com



VPM's B.N. Bandodkar College of Science (Autonomous), Thane

Departments of Biotechnology, Microbiology, Biochemistry, Botany, Human Science and Interdisciplinary Science in collaboration with Mycological Society of India (Mumbai Chapter) present **National Conference** on,

2nd Pre-conference
Workshop

'Understanding The Tools of Trade'

MICROBIOME : THE STORY UNTOLD!

10th- 11th
December 2021
Join Here



10th December 2021
Ms. Purvi Shah

"Unravel the DNA
sequence"

Timing : 3.00 pm-5.00 pm

For any queries contact:
mbtsu2022@gmail.com



11th December 2021

Ms. Judith Talker

Timing : 3.00 pm-5.00 pm

11th December 2021

Dr. Ashwini Tilak

Timing: 11.00 am-1.00 pm

"Essential
Bioinformatics"



E- certificates will be provided to all participants attending the workshop after filling the feedback form. Join 15 minutes prior to avoid any technical glitches

Events of the Conference

- Logo Competition
- First Pre-conference workshop
- Poster Competition
- Second Pre-conference workshop



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National Conference On:
Microbiome: The Story Untold!

Poster Competition

THEMES

- Plant Microbiome
- Human Microbiome
- Environmental Microbiome
- Microbiome engineering & functional foods

CATEGORIES FOR ENTRY

1. UG
2. PG
3. Ph.D./ Faculty/ Industry personnel

[Click here](#) for registration and upload

Last date for submission of poster: **28th November 2021**

Conferences/ Seminars/ Workshops Conducted in Last Five Years

Department

Topics

2020 - 21

Chemistry

Advances in Chemical Sciences and Sustainable Development

2019-20

Physics

Materials and their applications : a broad Perspectives

2018-19

Zoology

Ecology, Ethology and Environment Management

2017-18

Botany

Green Earth: A Panoramic View

2016-17

Biotechnology & Microbiology

Emerging Technologies for Sustainable Agriculture

Vidya Prasarak Mandal, Thane. List Of Institutes

B. N. Bandodkar College Of Science

K. G. Joshi College Of Arts

N. G. Bedekar College Of Commerce

V. P. M's TMC Law College

V. P. M's Polytechnic College

V. P. M's Advanced Study Centre

V. P. M's Polytechnic IT Centre

Dr. V. N. Bedekar Institute Of Management Studies

V. P. M's Centre For Foreign Language Studies

V. P. M's Department Of Defense And Strategic Studies

V. P. M's London Academy For Education And
Research

V. P. M's Academy Of International Education And
Research

Dr. Bedekar Vidya Mandir

Sou. A. K. Joshi English Medium School