

## Program

### Day 1: 25-April-2023

- Registration : 9:00 am  
Inauguration : 9:45 am  
Welcome Address : **Dr. R. Kannan**  
Associate Professor & Head,  
Department of Botany,  
NGM College, Pollachi
- Felicitation : **Dr R. Muthukumar**  
Principal  
NGM College, Pollachi
- 10.15 - 11:30 am  
Technical session 1 : **Microorganisms for Human Welfare**  
**Dr. D. J. Bagyaraj (Convenor)**  
NASI Honorary Scientist & Chairman  
Centre for Natural Biological  
Resources & Community  
Development, Bangalore
- 11:30 -11:45 am : Tea Break  
11:45 am -1:00 pm  
Technical session 2 : **Molecular Markers**  
**Dr. Harini Kumar**  
Professor of Biotechnology,  
Univ.of Agricultural Sciences, GKVK,  
Bangalore
- 01:00 – 02:00 pm : Lunch Break  
02:00 -03:15 am  
Technical session 3 : **Salmonella as an opportunistic plant pathogen**  
**Dr. Dipshikha Chakravorty**  
Associate Professor, Centre for  
Infectious Diseases Research (CIDR),  
Indian Institute of Science (IISc),  
Bangalore
- 03:15 – 04:30 pm  
Technical session 4 : **How to take care of Salmonella Infection in plants by diverse bacteria?**  
**Dr. Dipshikha Chakravorty**  
Associate Professor, Centre for  
Infectious Diseases Research (CIDR),  
Indian Institute of Science (IISc),  
Bangalore

### Day 2 : 26-April- 2023

- 09.30 – 10.45 am  
Technical session 5 : **Microbiome for human welfare and plant health for food security**  
**Dr. U. Sivakumar**  
Dean & Professor of Agri Microbiology,  
TNAU, Coimbatore
- 10:45 – 11:00 am : Tea Break  
11:00 am -12:15 pm  
Technical session 6 : **Microbial volatile organic compounds as signal and eco-friendly solutions for crop productivity**  
**Dr. U. Sivakumar**  
Dean & Professor of Agri Microbiology,  
TNAU, Coimbatore
- 12:15 – 01:00 pm : Lunch Break  
01:00 – 02:15 pm  
Technical session 7 : **Arbuscular mycorrhizal fungi for sustainable agriculture**  
**Dr. D. J. Bagyaraj**  
NASI Honorary Scientist and  
Chairman, Bangalore
- 02:15 – 03:30 pm  
Technical session 8 : **Biofuel – Future energy**  
**Dr. Harini Kumar**  
Professor of Biotechnology, Univ. of  
Agricultural Sciences,GKVK,  
Bangalore
- 03:30 – 03:45 pm : Tea Break  
03:45 – 04:15 pm : Valedictory Session  
Valedictory address: **Dr. N. Rajakumar**  
Former Principal  
NGM College, Pollachi
- Vote of Thanks : **Dr. K.Rajalakshmi**  
Associate Professor of Botany,  
NGM College,  
Pollachi

#### For Further Details Contact:

**Dr. K.Rajalakshmi**  
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Associate Professor of Botany,  
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## SCIENCE ACADEMIES' LECTURE WORKSHOP ON

# Understanding Microbes on Ecology, Diversity and Applications

25<sup>th</sup> and 26<sup>th</sup> April 2023

## Under Science Academies' Education Programs

Sponsored by

## INDIAN ACADEMY OF SCIENCE, BANGALORE



Indian National Science Academy, New Delhi



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Organized by

Department of Botany



**NGM College (Autonomous)  
Pollachi**



Re-accredited with NAAC  
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Email: ngm@ngmc.org, principal@ngmc.org  
Website: www.ngmc.org

**Venue: Prof. M. Alkondan Hall  
Time: 9:00 am - 4:30 pm**

## About the College

Nallamuthu Gounder Mahalingam (NGM) College, Pollachi was established in the year 1957 and it is an autonomous institution affiliated to Bharathiar University, Coimbatore. The college has been spreading its wings far and wide to provide a variety of educational programs under one roof for around 65 years. Over the years, the College has developed into a premier teaching and research Institution, offering 44 different programs including UG, PG and research. The College has about 250 faculty members and 6000 students. The benevolence of the beloved Patron Arutchelvar Dr. N. Mahalingam, the President Dr. B.K. Krishnaraj Vanavarayar and the Secretary Shri M. Balasubramaniam has transformed the College into a Centre of Excellence in higher learning and active research. The academic excellence, expert faculty, state-of-the-art research facilities, commendable ISR activities and promising placements are the strengths of the college. The NAAC has awarded 'A' grade twice and it is also an ISO 9001:2015 certified institution since 2002.

## About the Department

The Department of Botany was established in 1972 with an undergraduate course in botany and the post-graduate course is highly integrative in nature in order to ensure the vertical and horizontal mobility of students. Curricular contents range from Classical Botany to Applied Botany including Plant Biotechnology, Molecular Biology, Bioinformatics, and

## Bionanotechnology.

The infrastructure and the expertise available in the department have elevated it into a recognized research center of Bharathiar University to carry out research in both fundamental and applied fields of Botany to award M.Phil (full-time/part-time) and Ph.D. degrees.

## About the Seminar

Microbes are omnipresent, versatile and smart in all ecosystems and they can survive in any extreme environment where other organisms struggle to exist. Microbes are inevitable for they conquer our day-to-day life either in a useful or harmful manner. The role of microbes in human welfare starts from their role in many of the biochemical processes such as digestion, fermentation, decomposition, leaching and the microbial products include probiotics, single-cell protein, vaccines, antibiotics, biofuels, biofertilizers, biopesticides, compost etc. Nevertheless, some are highly pathogenic and makes a human life fatal. The diseases such as Plague, Dengue, Tuberculosis, SARS, AIDS, Covid-SARS are life threatening. Consequently, it is high time to comprehend the diversity, ecology, lifecycle, metabolism and applications of microbes.

Post-covid era has given a new thrust to microbes, not just about its pathogenicity and symptoms; nevertheless to more on its antimicrobial activity and its application as vaccines, edible vaccines, in addition to other applications like drug discovery and enzyme research.

Consequently, its high time to understand, discuss and share the knowledge on microbes from its ecology, morphology, diversity, genetics, evolution, plant-microbe interaction, infection cycle, metabolism, genomics to metabalomics. Hence, we believe that the two days Lecture workshop on "Understanding microbes on Ecology, Diversity and Applications" would bring new insights into the microbial world. Moreover, this is to provide a common platform for the academicians, research scholars, students with the eminent microbiologists of our country. The lectures will also enlighten the young minds and budding research scholars to focus on the latest trends and updates in the microbial world.

## Registration Details

No Registration Fee. However, kindly confirm your participation by the Google form on or before 20th April 2023, 6.00 pm.

## For Registration

### Google link

[https://docs.google.com/forms/d/e/1FAIpQLSdfsQQcF-3OajSIKKsd\\_tbmlsDp8BmpuWzrHSuWvqip6ALrUg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdfsQQcF-3OajSIKKsd_tbmlsDp8BmpuWzrHSuWvqip6ALrUg/viewform?usp=sf_link)

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