

## Call for abstracts

Faculties/Scientists/Academicians/Industrialists/Research scholars/Graduate students are invited to submit abstracts for oral or flash presentations under any of the conference themes

## Guidelines for abstract submission

The abstract should be limited to 250 words, single column, 1.5 line spacing, font (Times New Roman) size 12 with a relevant title, list of the authors with affiliations, contact details including mobile number of corresponding author and five key words. Submit the abstract specifying the theme by email to [micon2023@yenepoya.edu.in](mailto:micon2023@yenepoya.edu.in)

Important Dates		Registration Fees (18% GST)	
Last date for registration	31.01.2023	UG/PG students	₹. 500
Abstract submission	31.01.2023	Research scholars	₹. 750
Announcement of accepted abstracts	10.02.2023	Faculties/Scientists	₹. 1,500
Pre-conference workshop	02.03.2023	Industry delegates	₹. 4,000
Conference	03.03.2023	Stalls	₹. 11,800
Post-conference study tour	04.03.2023	Start-up Expo	₹. 2,000
		Pre-conference workshop	₹. 500

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# National Conference MiCON 2023

## MICROBES INNOVATION & TECHNOLOGY



Organised by

## Division of Microbiology and Biotechnology Yenepoya Research Centre

Yenepoya (Deemed to be University), Mangalore, India



3<sup>rd</sup> MARCH 2023



YENEPOYA RESEARCH CENTRE



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Yenepoya (Deemed to be University), a well established educational hub in the pristine surroundings of a tranquil south Indian town, Mangaluru. The university offers educational programs that are professional, skill-oriented and multi disciplinary. The campus houses state-of-the art facilities for education and research. The Yenepoya Research Centre (YRC), one of the important research centers of the university, specializes in interdisciplinary research, promoting innovation and translation to cater the needs of the society at regional and global levels.

## Scope

MiCON 2023, a national-level conference organized by the Division of Microbiology and Biotechnology, Yenepoya Research Centre, under the theme "Microbes, Innovation and Technology" intends to deliberate and discuss the progress made in the basic research and innovative technological advancement in all the areas of environmental, medical, pharmaceutical, veterinary, agricultural, food and molecular microbiology with special focus on sustainable approaches. The conference also provides a unique platform for startup expo and entrepreneurs from academia to exchange their ideas and gain insights into the customer demands from experts and peers.

The third millennium is progressing in bottleneck speed with innovations and technological advances to provide health, comfort and a sustainable ecosystem. Several initiatives by the Government of India have focussed on providing opportunities for innovators from academia to transform the innovations into national wealth while advocating "Make in India" initiative to be a self-reliant nation. This conference hosts invited speakers who are experts in their respective domains to lead the sessions. There are ample opportunities for researchers to present their own research findings and innovations in the form of oral/flash presentations.

## Themes

**The broad themes for the conference are as follows.**

### Multi-omics in microbiology

Multi-omics approaches are rapidly expanding, bridging the knowledge gap in microbiology. Contemporary omics approaches create new challenges and avenues for computational and wet lab microbiologists for setting up and testing new hypotheses. Generation of detailed high-resolution data has immensely benefited from recent advances in high-throughput multi-omics techniques like genomics, transcriptomics, proteomics, and metabolomics. Multi-omics has revolutionized the clinical and public health responses to communicable and infectious diseases. The development and application of meta-omics approaches and the exploration of new bioinformatics tools for microbial communities emphasize the structure, function and relationships that lead to fundamental advances in high-resolution microbial community profiles and new pathways/metabolism. Abstracts related to multi-omics in microbiology are invited under this theme.

### SARS-CoV-2 and COVID-19

COVID-19 is a highly contagious respiratory illness that began in Wuhan, Hubei province, China in December 2019. The causative agent SARS-CoV-2 is a positive-stranded RNA virus belonging to the genus Betacoronavirus of the family Coronaviridae. It claimed >628 million lives and triggered severe economic losses worldwide. The post-COVID-19 complications like mucormycosis including the post-COVID syndrome involving fatigue, and digestive, neurological and cardiovascular symptoms are known to prevail. The disease has opened up new avenues for researchers to study the virus, its genome, mutation rates and possible vaccine/treatment modalities. Under this theme, research abstracts that advance knowledge regarding microbiological (viral and fungal) aspects of COVID-19 and post-COVID complications are invited.

### Antimicrobial resistance (AMR) and novel antimicrobials

Microbes constantly evolve and develop antimicrobial resistance (AMR) to withstand the lethal impacts of antibiotics. Tracking down microbes with AMR attributes has been a keen interest among researchers to counter AMR and develop effective therapeutics. Several developing countries like India encounter AMR at an alarming rate due to the frequent availability of generic products, haphazard use of low-cost antibiotics, and constraint in best treatment options that leads to inappropriate and irrational prescriptions. Hence, tackling these problems is much necessary to control AMR. This theme calls for abstracts on the evidence-based use of antimicrobials, the mechanism involved and novel approaches to overcome AMR.

### Micro-bioremedies for sustainable environment

This theme intends to discuss the effects of harmful pollutants including microplastics on the environment and human health and the possible application of microbes for bioremediation purposes. The microbes implicated in bioremediation are usually the inhabitants of the hostile environment. Biodegradation and bioremediation are sustainable solutions for detoxifying diverse pollutants discharged from different sources to aquatic and terrestrial ecosystems and the restoration of nature. The environmental quality can be maintained by identifying microbes that break down pollutants and fine-tuning their metabolic activities in situ. Under this theme, abstracts that contribute to the concept of micro-bioremediation and biodegradation for a sustainable environment are invited.

### Technological innovations

Translational research provides innovative solutions for contemporary problems faced by humankind. A close collaboration between academia, industry and government has revolutionized translational research contributing to technological innovations. The general vision and goal of translational research is to serve from bench to bedside and bedside to community with the principal aim of addressing clinical and environmental issues. Many of these innovations are the outcomes of nanotechnology, a discipline that strives to develop novel drug delivery systems, biosensors, antimicrobial agents, rapid diagnostic tests and therapeutics. This theme calls for abstracts related to translational research in clinical and environmental microbiology with special focus on nanotechnology.