



# **Palamuru University, Mahabubnagar**

*Welcomes you to the*

**Two day - International e-Conference**

**on**

**MICROBIAL PATHOGENESIS AND RECENT ADVANCES IN  
DIAGNOSIS OF OMICRON**

**February 4 – 5, 2022**

**Online Mode**



*Organized by*

**The Department of Microbiology**

*in collaboration with*

**Indian Women Scientist Association (IWSA)**

**Microbiologists Society India (MSI)**

**IQAC Palamuru University**

**Webiste: [www.palamuruuniversity.ac.in](http://www.palamuruuniversity.ac.in)**

**Email : [microbiology@palamuruuniversity.ac.in](mailto:microbiology@palamuruuniversity.ac.in)**

# Palamuru University

Palamuru University has been established in the year 2008 by an Act of state legislature with the erstwhile Post Graduate College of Osmania University at Mahabubnagar as the nucleus. The University is situated in Bandameedipally Village 5 kms away from Mahabubnagar town on Hyderabad Raichur National Highway. Palamuru University is accelerating on the path of progress and emerging as the new destination of higher learning by in this part of the country. as a state university by statutory enactment to cater to the growing requirements of higher education of the region in general and of Mahabubnagar district in particular. The University started functioning from the academic year 2008-09 with the then PG College of Osmania university at Mahabubnagar as the nucleus, where in five PG courses were being offered. The New university set out with a vision and plan of action. On academic front, new courses (both regular and self-financing) have been started and initial faculty recruitment on a modest scale has been taken up. In the very first year of its establishment during 2008- 09, three regular programmes study viz., M.A. English, M.Sc. Chemistry & M.Sc Microbiology were launched. Today Palamuru University offers 19 academic programmes at the main campus (comprising University College, University College of Pharmacy and University College Education) and 3 Constituent Post Graduate centres at Gadwal, Kollapur and Wanaparthi, put together. The university has implemented progressive academic reforms such as semester system and Choice Based Credit System for promotion of academic excellence such as Ph.D. programmes There are 2000 students on the rolls of the University. Today 151 affiliated colleges with a student strength of 48,420 constitute the academic landscape of the University.

## Department of Microbiology

The Department of Microbiology was established since the inception of University in 2008. The Department consists of a vibrant community of faculty, researchers and students. We offer Post-Graduate and Doctoral Programs in Microbiology. Research within the Department is focused on broad areas of Agricultural, Environmental and Industrial Microbiology, more particularly confined to Microbial Biodiversity, Metagenomics, Bio fertilizers and Bio pesticides, Biofuel production, Biodegradation, Bioremediation and production of industrially important Microbial Enzymes etc., the faculty, post-doctoral fellows, Research Scholars staff and students of the department make an outstanding contribution to research in the field of Microbiology. The faculty publish their research in leading journals and present their work at national international conferences. The Department has built up an academic reputation of excellence in teaching and research. The department has well equipped laboratories for conducting practical and carrying out research. The students are well trained in such a way that they are absorbed in various pioneering research laboratories in microbiology, Biotechnology, diagnostic centres and also in food, pharmaceutical and agricultural industries. Highlights of this department include number of research projects were carried out in the department funded by SERB, DST, UGC, SSA-RVM etc.,

## About the Conference

Microbes have evolved a wide variety of tools to establish themselves in the host and gain nutrients, the consequence of which results in tissue damage and eventually disease production. In order to cause disease a pathogen must successfully cross the different stages of pathogenesis, viz. exposure, adhesion, invasion and infection. The outcome of an infection depends on the virulence factors of the host and host resistance. Since 2020 till today, we are experiencing the effect of COVID -19 to Beta variant to Omicron in the present situation which indicates the adaptation of microorganisms to the changing resistance exhibited by the humans. Mutations in the virus also have shown the variation in the clinical presentation of the infections. Tracking the mutation type and rate of the virus is important in reducing transmission through established and proven disease control measures, are crucial aspects of the global strategy to reduce the occurrence of mutations that have negative public health implications. People with severe COVID-19, such as those in an intensive care unit (ICU), are particularly vulnerable to bacterial and fungal infections. The most common fungal infections in patients with COVID-19 include aspergillosis or invasive candidiasis. Awareness of the possibility of fungal co-infection is essential to reduce delays in diagnosis and treatment in order to help prevent severe illness and death from these infections. This Conference aims at making aware of the mechanism of microbial (bacterial and viral) pathogenesis, their adaptations to the environment, the progress of the present COVID 19 pandemic to different forms or variants and associated mycotic infections, its diagnosis and administration of vaccines to control the pandemic.

## EMINENT SPEAKERS



**Topic: "MOLECULAR PATHOGENESIS OF MYCOBACTERIUM TUBERCULOSIS, THE HIGHLY CONTAGIOUS TB CAUSING BACTERIA"**

**Prof. Sharmistha Banerjee**

Dept. of Biochemistry, School of Life Sciences  
Central University of Hyderabad



**Topic: "COVID-19 ASSOCIATED MYCOSES-A CURTAIN RAISER"**

**Dr. Gokul Shankar Sabesan**

Faculty of Medicine  
Manipal University Medical College, Malaysia

**Day 1: 04.02.2022**



**Topic: "RECENT TRENDS IN DIAGNOSIS OF OMICRON"**

**Prof. DVR. Sai Gopal**

Vice Chancellor, Cluster University, Kurnool, A.P  
Professor of Virology, S.V. University, A.P

**Topic: "SARS CoV 2: VARIANTS AND VACCINES"**



**Dr. Ruksana Raihan**

Associate Professor, Dept. of Microbiology  
US-Bangla Medical College, Head, Gazi Covid 19 PCR Lab  
Director, Research and Development CBRT, Bangladesh

**Day 2 : 05.02.2022**

### Chief Patron

**Prof. LB. Laxmikanth Rathod**

Vice-Chancellor  
Palamuru University

### Patron & Chairman

**Prof. Pindi Pavan Kumar**

Dept. of Microbiology  
Registrar, Palamuru University

### Convener and Organizing Secretary

**Dr. Shanthipriya Ajmera**, Asst. Professor, Dept. of Microbiology

Addl. Controller of Exams, Palamuru University, Mahabubnagar

Life Member IWSA & MSI

MSI Coordinator, Palamuru University

### Co-ordinator

**Dr. D. Madhusudhan Reddy**

Asst. Prof. Dept. of Microbiology  
IQAC Director  
Palamuru University

### Co-Convener

**Dr. N. Kishore**, Asst. Professor

Head, Dept. of Microbiology  
Joint Director, Academics  
Palamuru University

### Chairperson

**Dr. M. Noorjahan**, Principal

University P.G. College, Palamuru University

### Advisory Committee

**Prof. Arvind Deshmukh**, President of MSI, India

**Dr. K. Ratna**, President of IWSA/Hyd

**Prof. B. Bhima**, Head, Dept. of Microbiology, O.U

### Organizing team

**Dr. Soma Mrudula**

Assistant Professor, Dept. of Microbiology, Palamuru University

**Dr. Vasavi Dathar**

Head, Dept. of Microbiology, TSWRDC(W), Mahabubnagar  
MSI Telangana State President

**Dr. S. Sreedevi**,

Joint Secretary, IWSA

Research Scholars, Dept. of Microbiology, Palamuru University

## Paper Presentations Oral / Poster :

Invited abstracts for oral /poster presentations from the participants (students, research scholars, faculty & scientists)

### Themes

- ✦ Biomolecules-Drug resistance
- ✦ Clinical diagnosis and therapeutic agents
- ✦ Bacterial & Fungal Pathogens and associated diseases.
- ✦ Clinical infections and vaccines
- ✦ Microbial diseases and vaccines
- ✦ Cellular microbiology & systems microbiology
- ✦ Emerging & re-emerging viruses
- ✦ Advances in nanotechnology to treat microbial diseases
- ✦ Molecular diagnosis or molecular tools to detect omicron
- ✦ Antiviral therapy

**Abstract Guidelines:** Introduction, Main body of the paper, Conclusion and References. Maximum 350 words, 12 font size, Times New Roman and authors (her/his) full name and affiliation in *italics*.

**Note:** Please send your abstracts to microbiology@palamuruuniversity.ac.in email id before 26-01-2022.

Registration fee: 200/- (Two Hundred Rupees only)

**The Registration fee can be paid through Net Banking / Debit Card/ credit Card / UPI in favour**

<b>Name of the Account</b>	: Convener, MPRADO-2022
<b>Bank Name</b>	: State Bank of India, Ganeshnagar, Mahabubnagar
<b>Account number</b>	: 40715736086
<b>IFS Code</b>	: SBINOO16375

**Registration link:** <https://forms.gle/s6UZ3CtzRXrhE5R46>

**WhatsApp group link:**

<https://chat.whatsapp.com/HquhY541qqoJw6ljw5wZWj>

**All registered candidates please join the above WhatsApp link.**

Paper presented Candidate will get hard copy of certificates by post.

**Contact details: 9866457142, 9703412951**

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