



Palamuru University, Mahabubnagar

Welcomes you to the

Two day - International e-Conference

on

**MICROBIAL PATHOGENESIS AND RECENT ADVANCES IN
DIAGNOSIS OFOMICRON**

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

Email : microbiology@palamuruuniversity.ac.in

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**Department of Microbiology
University College
PALAMURU UNIVERSITY**

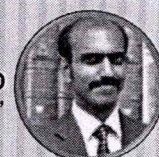
EMINENT SPEAKERS



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

Day 1: 04.02.2021



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

Dr. Gokul Shankar Sabesan
Faculty of Medicine
Manipal University College, Malaysia



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

Day 2 : 05.02.2021

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



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
OSD to VC & 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

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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 count as a state university by statutory enactment to cater to the growing requirements of higher education of the region in general. 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 Wanaparthy, 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

About the Conference

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.

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 pathogen 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 delay 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.

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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 27-01-2022.

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

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

Name of the Account : Convener, MPRADO-2022

Bank Name : State Bank of India, Ganeshnagar, Mahabubnagar

Account number : 40715736086

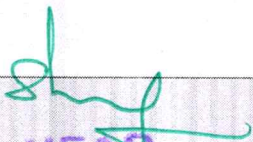
IFSC Code : SBIN0016375

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

Registered candidate will get hard copy of certificate by post after feedback.

Contact details: 9866457142, 9703412951

Email: microbiology@palamuruuniversity.ac.in


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