



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli, Off International Airport Road
Bengaluru -562157



Department of Health Research (DHR)- Indian Council of Medical Research (ICMR)

**Ministry of Health & Family Welfare, New Delhi
Sponsored**

National workshop

ON

Molecular Aspects and Computational Approaches of Human Infecting Bacterial and Fungal Agents in One Health Approach

ORGANIZED BY

**DEPARTMENT OF BIOTECHNOLOGY
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
&
KRISHNADEVARAYA COLLEGE OF DENTAL SCIENCES & HOSPITAL
BENGALURU-562157**



Date : July 27th to 31st, 2026

Resource persons : Subject experts from reputed Industries/Institutes

Who can attend: Faculty, Research scholars, UG/PG students from Biomedical, Pharmaceutical, Veterinary Science, Life sciences and Industry Persons

REGISTRATION: SCAN QR CODE OR CLICK LINK

https://docs.google.com/forms/d/e/1FAIpQLSdTBWs9RCtWU_TjLSB89NWtEQKk9hPwv7W59T93f4Qce3gOyw/viewform?usp=header



Important instructions :

- ☐ There is no registration fee for the workshop
- ☐ Maximum number of Participants is limited to 60
- ☐ The selection is on first come first serve basis
- ☐ No TA and DA will be provided to attend the workshop
- ☐ Accommodation will be provided for out station participants on request basis
- ☐ Selected participants will be intimated through e mail

Last date for registration 21/07/2026

EVENTCOORDINATORS

Dr. RAJENDRA SINGH C

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Dr. K. ARUL SELVAN

Professor & Head

Dept. of Microbiology, KCDS

Convener

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**Venue - CSE Seminar Hall
Sir M. VIT**

ABOUT ICMR

The Indian Council of Medical Research (ICMR), founded in 1911 as the Indian Research Fund Association and redesignated as ICMR in 1949, is the apex body in India for the formulation, coordination, and promotion of biomedical research. It functions under the Department of Health Research (DHR), Ministry of Health & Family Welfare, Government of India. ICMR promotes and supports cutting-edge research in communicable and non-communicable diseases, public health, infectious diseases, genomics, biotechnology, translational medicine, and health systems. Through its nationwide network of research institutes and regional centres, ICMR plays a pivotal role in disease surveillance, diagnostics, outbreak response, vaccine development, and evidence-based healthcare policies. The Council collaborates with national and international organizations to advance biomedical research and improve the health and well-being of the people of India.

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Sir M. Visvesvaraya Institute of Technology (Sir MVIT) is an Institute of repute in the State of Karnataka, founded by Sri Krishnadevaraya Educational Trust in 1986. Sri Krishnadevaraya Educational Trust was founded in 1985 by a group of 19 philanthropists, mainly builders belonging to the Raju Kshatriya community with the sole objective of establishing educational institutions with all-round quality perspective. Sir MVIT offers 10 B.E. degree programs in Artificial Intelligence & Machine Learning, Biotechnology Engineering, Computer Science & Engineering, Computer Science & Engg.(Internet of Things & Cyber Security including Block Chain Technology), Electronics & Communication Engineering, Electrical & Electronics Engineering, Electronics & Telecommunication Engineering, Information Science & Engineering, Civil Engineering, and Mechanical Engineering. Masters Programs in Master of Business Administration (MBA), Master of Computer Applications (MCA), M.Tech. in Mechanical Engineering (Computer Integrated Manufacturing), M.Tech. in Electronics and Communication Engineering (Electronics), M.Tech. in Biotechnology & Biochemical Engg., are also offered. The Institute is affiliated to Visvesvaraya Technological University and is approved by All India Council for Technical Education, New Delhi and is accredited by National Board of Accreditation, New Delhi and NAAC. The institute is also certified by Scientific & Industrial Research Organizations (SIRO).

DEPARTMENT OF BIOTECHNOLOGY

The Department of Biotechnology was started in the year 2002, as a 4 year BE program with a humble intake of 30 students. Being the first institution under the Visvesvaraya Technology University (VTU) to perceive the requirement for an undergraduate technical program in Biotechnology, Sir MVIT played a pioneering roles in the formulation of the curriculum, starting with the preparation of draft syllabus, organization of seminars/conferences/workshops, initiating industry-institute interactions etc. Today, the department is entrenched with a talented group of faculties drawn from diverse fields such as, Bioinformatics, Plant biotechnology, Microbial biotechnology, Protein chemistry, Environmental Engineering, Bioprocess technology, Chemical Engineering etc. Apart from bestowing quality training, the department has distinguished itself in the spheres of R & D activities too. The department obtained recognition as an R & D centre by VTU in 2006, and in 2011, an M. Tech Program in Biotechnology and Biochemical Engineering was started as well. Thus, it offers M. Tech., M. Sc., (Engg.) by Research and Ph.D. programs. Department of received research funds from DST, DBT, ICMR, BIRAC & VGST.

ABOUT KCDS

Krishnadevaraya College of Dental Sciences & Hospital (KCDS), Bengaluru, established in 1992, is one of the premier dental institutions in Karnataka. The college is affiliated with the Rajiv Gandhi University of Health Sciences (RGUHS), Bengaluru, and is recognized by the Dental Council of India (DCI).

KCDS is committed to excellence in dental education, research, patient care, and community outreach. The institution offers undergraduate, postgraduate, and doctoral programs across various dental specialties and is supported by highly qualified faculty, advanced laboratories, and modern clinical facilities. The hospital is equipped with state-of-the-art operation theatres, 25-bedded inpatient facilities, advanced diagnostic services, and ultramodern dental equipment, providing comprehensive oral healthcare while promoting interdisciplinary research and innovation.

CONTACT DETAILS:

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About the workshop

The National Workshop on “Molecular Aspects and Computational Approaches of Human Infecting Bacterial and Fungal Agents in One Health Approach” aims to provide an interdisciplinary platform for researchers, academicians, healthcare professionals, and students to explore recent advances in the study of pathogenic bacteria and fungi affecting human health. The workshop focuses on understanding the molecular mechanisms of host–pathogen interactions, antimicrobial resistance, virulence factors, disease pathogenesis, and emerging infectious diseases. Through expert lectures and interactive sessions, participants will gain insights into cutting-edge molecular techniques and their applications in the diagnosis, prevention, and control of infectious diseases. The workshop also emphasizes the integration of computational and bioinformatics tools in infectious disease research within the framework of the One Health Approach, which recognizes the interconnectedness of human, animal, and environmental health. Participants will be introduced to modern computational methods such as genome analysis, molecular modeling, phylogenetics, metagenomics, and data-driven disease surveillance. By bringing together experts from diverse disciplines, the workshop seeks to foster collaborative research, strengthen scientific capacity, and promote innovative solutions to address global challenges posed by bacterial and fungal infections.

The objectives of the events are:

- To understand the molecular basis of antimicrobial and antifungal resistance.
- To explore emerging resistance mechanisms and global trends.
- To provide hands-on training in molecular, microbiological and computational techniques.
- To introduce computational approaches for studying microbial pathogens and resistance mechanisms.
- To highlight the One Health approach in combating antimicrobial and antifungal resistance.
- To promote interdisciplinary research, collaboration and innovation in infectious disease research.

PATRONS

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Sri V.Madhu	Trustee
Sri K.C.Chandrashekar Raju	Trustee
Sri Varadaraju Chandrashekar	Trustee
Sri Sudarshan M. Raju	Trustee

ORGANIZING CHAIRS

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Dr. Ponnanna A. A

Principal KCDS, Bengaluru -562157

CO-ORGANIZING CHAIR

Dr. Bharathi Ganesh

Vice-Principal, Sir MVIT, Bengaluru - 562157

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CONVENER :

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MEMBERS

- Dr. PriyaNarayan., Member
- Dr. Mrinalini Menon., Member
- Dr. Jagadeesh Kumar D, Member
- Ms. Niveditha A., Member
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- Dr. Hariharan P., Member
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