

CONVENER



Convener of the Workshop

Prof. Agepati S Raghavendra

INSA Senior Scientist,
FNA, FTWAS, FASc, FNASI, FNAAS,
Department of Plant Sciences,
University of Hyderabad.

RESOURCE PERSONS



Prof. Dr. Appa Rao Podile

D.Sc (hc), FNA, FASc, FNASc, FNAAS,
FAMI, JC Bose Fellow (DST),
Department of Plant Sciences,
University of Hyderabad.



Prof. Dr. Rajagopal Subramanyam

FNA, FASc, FNASc,
Head, Department of Plant Sciences,
University of Hyderabad,
Director and Coordinator,
ASPIRE-BioNEST.



Prof. Paturu Kondaiah

FNA,
Dept. of Developmental Biology and
Genetics, Indian Institute of Science.
Hon. Advisor, Sri Shankara Cancer
Hospital and Research Centre.

Co-ordinator

Dr. Aparna Nerusu, Assistant Professor
Department of Biotechnology, VFSTR
Mobile: **9398370158** | Email: nerusu.aparna@gmail.com

Workshop Venue

Sangamam Seminar Hall, A-Block
VFSTR, Vadlamudi, Guntur-522 213, Andhra Pradesh, India.



VIGNAN'S
FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH

(Deemed to be University) - Estd. u/s 3 of UGC Act 1956



3 - 4
March
2025

Science Academies'
Lecture Workshop on

Recent Trends in Molecular Biology & Biotechnology

Organized by

Department of Biotechnology

School of Biotechnology & Pharmaceutical Sciences
Vignans Foundation for Science, Technology and
Research (Deemed to be University) Vadlamudi, Guntur

&

Department of Plant Sciences

School of Life Sciences
University of Hyderabad, Telangana

About Science Academies' Lecture workshop

The Science Academies' Lecture Workshop is a collaborative initiative by the Indian Academy of Sciences (IASc), Indian National Science Academy (INSA), and The National Academy of Sciences, India (NASI). The Indian Academy of Sciences, founded in 1934 by Nobel Laureate Sir C.V. Raman, aims to promote scientific progress in both pure and applied sciences. Launched in January 2007, these short-duration (2-day) Lecture Workshops are organized by the Joint Science Education Panel of the three academies. The primary objective is to enhance the knowledge of undergraduate, graduate, and research-level students and faculty. Designed to align with academic curricula, these workshops also introduce participants to advanced research topics, ensuring a comprehensive learning experience.

About Department of Plant Sciences, University of Hyderabad

The Department of Plant Sciences has established itself as a premier centre in India for high-quality teaching and cutting-edge research in Plant Sciences and Microbiology, producing highly skilled professionals in these fields. The Department envisions harnessing plant and microbiological resources to improve the environment and enhance human welfare through focused and systematic research and education in frontier areas of these sciences. The Department's progress has been bolstered by significant grant support from leading funding agencies, including UGC-SAP (DRS-1) and DST-FIST (Level-II, Phase-2), enabling the establishment of state-of-the-art laboratories for MSc and PhD programs. Research efforts are supported by a range of prestigious national and international agencies such as DBT, DST, ICAR, CSIR, and international collaborators like Humboldt Foundation, USDA, and the European Union. The faculty members are distinguished by their impactful research contributions and a strong publication record in top peer-reviewed journals. Collaborative research, shared facilities, and access to advanced instrumentation further strengthen its academic and research ecosystem.

About Vignan's Foundation for Science, Technology & Research (VFSTR)

The University was established in the year 2009 and is accredited by NAAC as "A+". VFSTR gives top priority to academic excellence with a social responsibility. The University is driven by values, ethics, and a dedicated team of professionals. With a greater emphasis on innovation, research, skill development and entrepreneurship, the University has entered an exciting phase and is shouldering greater responsibilities in imparting technical skill development. The University provides high quality academic programmes, training activities, research facilities and opportunities supported by continuous industry - institute interaction aimed at promoting employability, entrepreneurship, leadership and research aptitude among students and contribute to the economic and technological development of the region, state and nation.

Department of Biotechnology

The Department of Biotechnology is accredited by ABET, USA, and NBA, India, ensuring quality education and research excellence. It features state-of-the-art

laboratories and a highly qualified faculty from premier Indian institutes and globally recognized universities in the USA, South Korea, Singapore, Israel, and Malaysia. The department focuses on Bio Innovations in Resource Utilization for Health, Environment, and Agriculture, aligning with the Sustainable Development Goals (SDGs). Its academic and research activities are categorized into specialized clusters, including Environmental Biotechnology, Medical Biotechnology, Industrial Biotechnology, NGS Data Analysis, and AI for Drug Design. With a strong research foundation, the department has completed nine funded projects and is currently executing nine ongoing projects worth ₹930 lakhs, funded by agencies like ICMR, CSIR, and DST, involving active student participation. Adopting an experiential learning approach, the department integrates project-based learning and skill-based practices to prepare students for careers in biological and bioprocess industries. A international internship program offers students global exposure through collaborations with institutions like NTU Singapore, Korea Tech University, Kyoto Sangyo University, and Leipzig Institute, Germany, where they co-author research with leading scientists.

Titles of Lectures

- Plant microbiome
- Why plants are fascinating?
- Proteomic tools in resolving abiotic stress effect from algae and plants
- Hall Marks of Cancer
- Accumulation of photosynthetic pigments and lipids-Industrial applications
- Pattern-induced immunity in plants
- We can learn from plants to adapt to stress
- Role of OMICS technologies in the treatment of cancer patients

For Whom Intended	How to apply
Under Graduate Students	Registration link and QR code
Registration Particulars:	https://docs.google.com/forms/d/e/1FAIpQLSfHGucz_7bbXkmFakDr3B-DKO-tWh110wkOXWVbaioaeLgPQ/viewform?usp=header
No Registration Fee. Selection will be based on first-come-first-serve to a maximum number of 150 participants.	
	