FABA
FEDERATION OF ASIAN BIOTECH ASSOCIATIONS

FABA ACADEMY
Skill. Upskill. Reskill

INDIAN IMMUNOLOGICALS LIMITED

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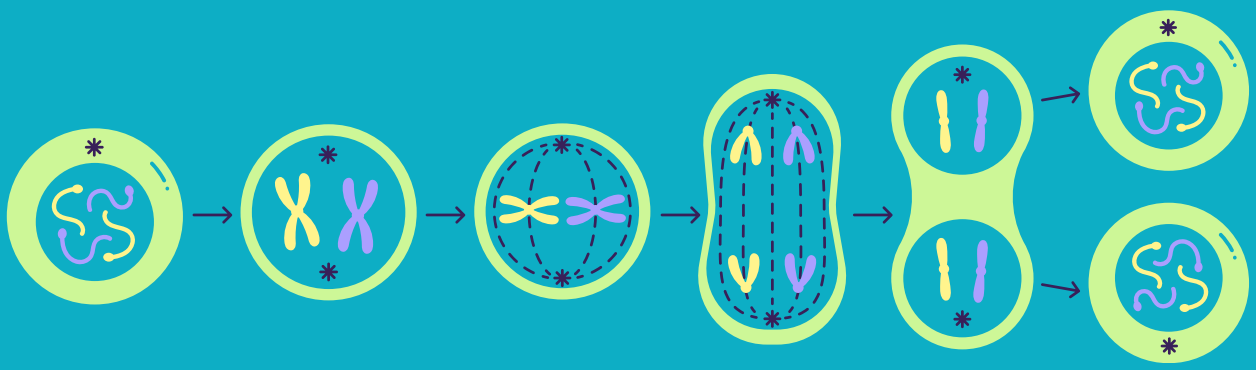


FOUNDATIONS IN

MICROBIOLOGY, MOLECULAR BIOLOGY, CELL CULTURE & SOFT SKILLS

8 SEPTEMBER - 8 OCTOBER 2025,
AGRI BIOTECH FOUNDATION, RAJENDRA NAGAR, HYDERABAD

REGISTER NOW

BUILD YOUR CAREER IN LIFE SCIENCES

Develop essential laboratory skills, technical expertise, and professional competencies

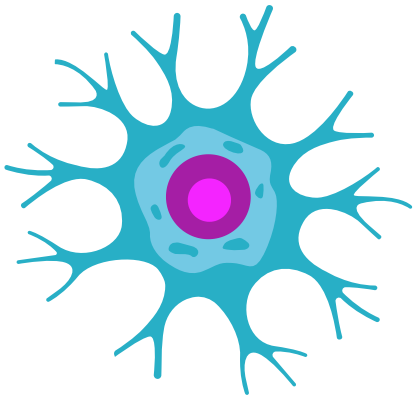
For: Bachelor's, Master's, Industry Professionals and Ph.D. students in Life Sciences

This intensive one-month course provides a comprehensive introduction to the fundamentals of microbiology, molecular biology, and cell culture techniques along with soft skills needed to job market.

Through a combination of lectures, hands-on laboratory sessions, and interactive discussions, participants will gain a solid theoretical understanding and practical skills in these essential areas of life sciences.

WHY CHOOSE THIS PROGRAM?

- Comprehensive curriculum covering microbiology, molecular biology, and cell culture
- Hands-on laboratory experience with cutting-edge techniques and equipment
- Career development through professional soft skills training
- Expert instruction from experienced faculty members
- Industry-relevant skills that enhance employability
- Networking opportunities with professionals in the field



WHAT YOU'LL LEARN:

Technical Skills:

- Analytical instrumentation in industry
- Laboratory safety and aseptic techniques
- Experimental design and data analysis
- Microbial culture techniques and analysis
- DNA isolation, PCR, and gel electrophoresis
- Molecular cloning
- Gene expression analysis
- Protein purification and characterization
- Cell culture maintenance
- Advanced cell culture applications
- Basics of microscopy and cellular imaging

Professional Skills:

- Scientific literature searching and evaluation
- Laboratory notebook maintenance
- Career development strategies
- Personal branding and CV building
- Using AI tools for scientific research

Faculty & Trainers

Prof. M V Jagannadham - Program Manager, Former Chief Scientist, CSIR-CCMB

Dr. Srinivas Duvvada Scientific Officer, University of Hyderabad

Dr. Mabu Subhan - Scientific Officer, University of Hyderabad

Dr. M Gopala Krishna Research Scientist, Agri Biotech Foundation

Dr. Bukke Kutti Bai Research Scientist, Agri Biotech Foundation

Ms. Manasa Nellaturu Young Professional, Agri Biotech Foundation

"It’s been a wonderful experience of gaining hands-on exposure to essential lab techniques, revisiting core biological concepts, and enhancing soft skills that are crucial in both academia and industry." - Gowri Krishna (1st Batch)

This course did not just equip me with vital skills and knowledge but it also bridged the gap between classroom style learning and academics. Most importantly, however, this programme gave me the opportunity to better understand myself and the world around me, it helped me transform biology from a subject to a technology. - Abha Ravikumar Mundada

DETAILED COURSE STRUCTURE

	Theory	Hands-on
Week 1: Introduction to Microbiology & Soft Skills	• Literature Search • Generative AI for sciences • Laboratory book maintenance • Instrumentation • Fundamentals of Lab experimentation (basic principles) • CV Making • Linkedin Profile • Personal Branding • Job-searching strategies and career building • History and scope of microbiology • Data Analysis and Statistics • Microbial diversity (bacteria, archaea, fungi, viruses) • Microbial structure and function • Microbial growth and nutrition • Microbial control and sterilization	• Showing basic instruments and understanding the principles • Buffers • Microscopy and staining techniques • Aseptic techniques • Bacterial culture and growth analysis • Antibiotic susceptibility testing
Week 2: Molecular Biology Fundamentals	• DNA structure and replication • Gene expression and regulation • Recombinant DNA technology • Polymerase chain reaction (PCR) - Real-Time PCR • Gel electrophoresis	• DNA isolation and purification • PCR amplification • Gel electrophoresis and DNA visualization • Plasmid DNA isolation and analysis

DETAILED COURSE STRUCTURE

	Theory	Hands-on
Week 3: Introduction to Cell Culture	• Principles of cell culture • Aseptic techniques and safety considerations • Cell culture media and reagents • Cell growth and maintenance • Cell passaging and cryopreservation	• Aseptic techniques and cell culture setup • Cell counting and viability assessment • Cell passaging and subculturing • Cryopreservation and thawing of cells
Week 4: Advanced Cell Culture Techniques and Applications		ell transfection and ne expression alysis ell staining and icroscopy ell-based assays g., proliferation, totoxicity)
Industrial Visits		sit to one cubation centre, 2 ational research stitutions and 2 dustries

REGISTER NOW

REGISTRATION INFORMATION

Program Fee

- **Students (Undergraduates/Graduates/Postgraduates) - Rs. 10,000**
- **Faculties/Ph.Ds and Postdocs -Rs. 15,000**
- **Industry Professionals- Rs. 20,000**

Application Deadline: 31st August 2025

HOW TO APPLY

Complete the online application form and pay the registration fee at **https://forms.gle/ExJZt7mUgsFv7pDn8**

CONTACT INFORMATION

Federation Of Asian Biotech Associations (FABA)
Agri Biotech Foundation Campus, Rajendra Nagar, Hyderabad

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Dr. Jagadeesh Gandla Chief Operating Officer,
Email: coo@biofaba.org.in, Ph: +918074648547

Limited upto 20 seats only. Apply early to secure your spot in this career-enhancing program.

A detailed syllabus with expanded program coverage will be shared soon

SOME OF OUR MENTORS

Prof. Pallu Reddanna

Senior Professor (Rtd.), University of Hyderabad, Executive President, FABA

Prof. S Dayananda

Professor (Rtd.), University of Hyderabad

Prof. A R Reddy

Former VC, Yogi Vemana University, Emeritus Professor, ABF

Prof. Pakki Reddy

Professor, Director, Agri Biotech Foundation

Dr. Nurpur Soni

Director R&D, Informatics, Amgen

Dr. U V Reddy

Director, UMED Pharma

Dr. Hari Rao

BSL-3 Advisor , Univesity of Hyderabad

Prof. Sharmishtha Banerjee

Biochemistry and Molecular Biology, University of Hyderabad

Dr. Bala Reddy

Founder, Provis Biolabs

Mr. VVNRC Murthy

Lead HR business partner, Human resources, Dr. Reddy's Laboratories Ltd.

Dr. M C Muthiah

Vice President HR, Indian Immunologicals Limited

Dr. Viswanadham Duppatla

Vice President, IKP Knowledge Park

SOME OF OUR MENTORS

Prof. M V Rajam

Retd Professor, Delhi University.

Prof. S Triveni

Professor and Head, Dept. of Agricultural Microbiology and Bioenergy, PJTS Agri University

Dr. Swetha Kamireddy

Assistant General Manager, Biological E Limited

Dr. JaganmohanReddy

Founder & CEO,
UR Advanced Therapeutics

Dr. Nageswara Rao

Co-founder & CSO,
Bycus Therapeutics

Dr. Madhuri Subbaiah

Scientist-E, National Institute of Animal Biotechnology (NIAB)

Dr. Anil Kumar Pasupulati

Associate Professor Dept. Biochemistry, SLS, University of Hyderabad

Dr. Gargi Desmukh

Scientist-in-charge,
Genome Foundation

ABOUT ORGANISERS

Federation of Asian Biotech Associations (FABA):

The Federation of Asian Biotech Associations (FABA) is a non-profit organization established in 2004 for providing a platform for academy, industry, and government bodies. FABA has launched the FABA academy to bridge the gap between academy and industry in human resources development by providing professional development programs to science graduates (https://biofaba.org.in/).

Indian Immunologicals Limited (IIL):

Indian Immunologicals Ltd (IIL) is the market leader in veterinary and human biologicals in India. It manufactures over 150+ products. IIL operates one of the largest plants in the world for veterinary vaccines. IIL has adequate infrastructure and cold chain distribution capability to reach out to various parts of India and world market. This flexibility in logistics has ensured many products of IIL occupy top slots in the market. IIL is a major player in the human vaccine market in India, focusing on the pediatric and rabies vaccine segments. IIL is also a major supplier of pediatric vaccines to India's large Universal Immunization Program. www.indimmune.com

EXPERT FACULTY

Project Head: Dr. M V Jagannadham is a distinguished scientist with a Ph.D. in Life Sciences from Jawaharlal Nehru University, New Delhi. He served as Chief Scientist at CCMB, Hyderabad, visiting professor, University of Hyderabad and currently scientific committee member of FSSAI, New Delhi, specializing in mass spectrometry, protein chemistry and proteomics.

Industry experts will share practical insights and cutting-edge applications in biotechnology, providing participants with valuable industry perspectives and networking opportunities. This one-month course will provide students with a strong foundation in microbiology, molecular biology, and cell culture techniques, enabling them to pursue further studies or research in these exciting fields.

REGISTER NOW


Welcome to FABA'S
FINISHING
Meet and learn from Guest Faculty from
University of Hyderabad
CCMB Hyderabad


virchow