
The transformation continues,
3 batches Graduated !



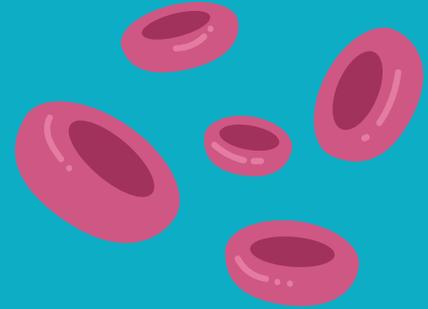
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Empowering 60+ life science professionals!
Launching new Batches of Finishing school

FOUNDATIONS IN MICROBIOLOGY, MOLECULAR BIOLOGY, CELL CULTURE & SOFT SKILLS



[REGISTER NOW](#)

Batch VI : 19 January - 21 February 2026
Agri Biotech Foundation, Rajendra Nagar, Hyderabad

“

"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

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BUILD YOUR CAREER IN LIFE SCIENCES

Develop essential laboratory skills, technical expertise, and professional competencies

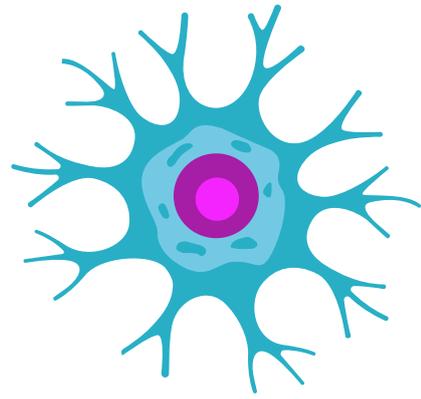
For: Bachelor's, Master's, Industry Professionals and Ph.D. students in Life Sciences

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. Mabu Subhan -
Scientific Officer, FABA



Dr. V Govind Raju -
Scientific Officer, FABA



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)

”

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 , University of
Hyderabad



Prof. Sharmishtha Banerjee

Biochemistry and Molecular
Biology, University of Hyderabad



Dr. Bala Reddy

Founder, Provis Biolabs



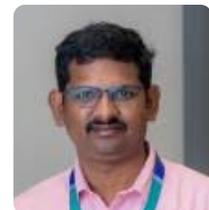
Dr. D Raghunadha Rao

Professor of Medical Oncology,
MNJ Cancer Hospital



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



Dr. Farhan Ahmed

Assistant Professor Department of Life Sciences GITAM School of Science Hyderabad

“

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 (2nd Batch)

”

SOME OF OUR MENTORS



Dr. Pratiksha Palahe

Project Lead, HiMedia
Laboratories



Dr. Srinivas Vudathala

COO, Sanray Laboratories



Dr. Girish K. Radhakrishnan

Scientist - F, NIAB



Dr. Divya Sriram

Co-Founder & CEO, D-NOME



Mr. VVNRC Murthy

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



Dr. M.V.Sasidhar

Chief Scientific Officer, AHREF

“

This journey was not just about learning, but also about networking, collaborating, and broadening perspectives with peers from diverse backgrounds. It gave me a better vision of how academic knowledge meets industrial relevance.- Krishna Priya (2nd Batch)

”

DETAILED COURSE STRUCTURE

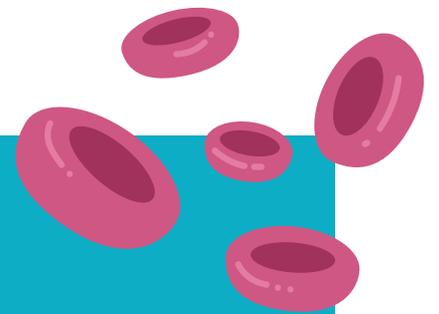
	Theory	Hands-on
<p>Week 1: Introduction to Microbiology & Soft Skills</p>	<ul style="list-style-type: none"> • Literature Search • Generative AI for sciences • Laboratory book maintenance • Instrumentation • Fundamentals of Lab experimentation (basic principles) • CV Making • LinkedIn Profile • Personal 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 	<ul style="list-style-type: none"> • Showing basic instruments and understanding the principles • Buffers • Microscopy and staining techniques • Aseptic techniques • Bacterial culture and growth analysis • Antibiotic susceptibility testing
<p>Week 2: Molecular Biology Fundamentals</p>	<ul style="list-style-type: none"> • DNA structure and replication • Gene expression and regulation • Recombinant DNA technology • Polymerase chain reaction (PCR) - Real-Time PCR • Gel electrophoresis 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none">• Principles of cell culture• Aseptic techniques and safety considerations• Cell culture media and reagents• Cell growth and maintenance• Cell passaging and cryopreservation	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Cell differentiation and transformation• Cell-based assays and applications• Transfection and gene expression analysis• Cell imaging techniques	<ul style="list-style-type: none">• Cell transfection and gene expression analysis• Cell staining and microscopy• Cell-based assays (e.g., proliferation, cytotoxicity)
Industrial Visits	<ul style="list-style-type: none">• Industry facilities, instrumentation and demonstratons	<ul style="list-style-type: none">• Visit to one incubation centre, 2 National research institutions and 2 industries



 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: 25th December 2025

HOW TO APPLY

Complete the online application form and pay the registration fee at <https://biofaba.org.in/foundations-in-microbiology-molecular-biology-cell-culture-soft-skills/>

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

