

# APPLICATION FORM

Name: \_\_\_\_\_

Father/Spouse: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Gender: \_\_\_\_\_

NIC: \_\_\_\_\_

*Picture*

Affiliated Institute: \_\_\_\_\_

Designation: \_\_\_\_\_

Address: \_\_\_\_\_

Ph: \_\_\_\_\_

Fax: \_\_\_\_\_

e-mail: \_\_\_\_\_

Academic Qualification:

Degree	Institution	Ranking	Year
B.Sc (Hons):			
M.Sc/MBBS			
Additional Qualification (If any):			

Research/training experience: \_\_\_\_\_

Accommodation required: Yes / No

Sig / Seal

(Applicant's Signature)

(Applicant's Head of Department)

- Last date for submission of forms is November 10, 2023
- Registration fee and the other charges may be deposited as cash or Bank Draft in the name of Account Officer NIBGE, FSD.

19<sup>th</sup> National Training Course on Modern Techniques in Bio-technology, National Institute for Biotechnology & Genetic Engineering, NIBGE, P. O. Box 577, Jhang Road, Faisalabad-PAKISTAN. or E. mail: mufathia@yahoo.com

- Application forms can also be downloaded from <http://www.nibge.org>



19<sup>th</sup> National Training Course on  
Modern Techniques in Biotechnology  
November 20-24, 2023

**National Institute for Biotechnology and Genetic Engineering (NIBGE)**, has widely been recognized as "Center of Excellence in Biotechnology" at international level. Scientists of NIBGE perform leading-edge research in the discipline of Biotechnology and train human resource for productive and rewarding scientific careers. Keeping emerging and cutting edge technologies in focus, NIBGE harbors state of the art equipment for research and outsource analytical services on commercial level. NIBGE by all means promoting collaboration in research with local and international organizations. It is an affiliated center of the **International Center of Genetic Engineering and Biotechnology (ICGEB)**, Italy and it's library has been designated as **National Library of Biological Sciences**. Training of manpower at postgraduate and doctorate level is one mandate of NIBGE and it is declared as constituent college of Pakistan Institute of Engineering and Applied Sciences (PIEAS) for the award of M.Phil. and



**National Institute for Biotechnology and Genetic Engineering (NIBGE), P.O. Box 577, Jhang Road, Faisalabad- PAKISTAN**

**Tel: 92 41 9201316-22 Web: [www.nibge.org](http://www.nibge.org)**

## Course Overview

Biotechnology is the field integrating many areas like microbiology, molecular biology, biochemistry, cell biology and immunology. Biotechnology has applications in medicine, agriculture, aquaculture, chemical manufacturing, textile processing and food processing industry. Basic biotechnological information can be learnt without any expensive resources, but the modern techniques have to be learnt by hands-on experience at the bench. Moreover, in response to the expanding frontiers in bio-technology, training and reorientation of the teaching faculty is essentially required to meet the rapidly changing professional and scientific needs of the stakeholders. This training course focuses on basic concepts, theoretical knowledge and hands-on training of skills and in-depth understanding of methods in modern biotechnology by experts in their field.

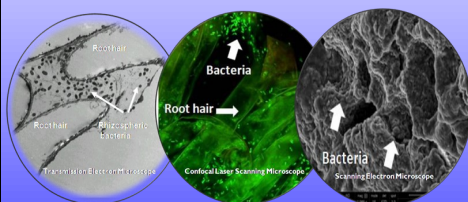
The National Institute for Biotechnology & Genetic Engineering (NIBGE) Faisalabad, being a Federal research body in the country has a mandate to apply modern and innovative research techniques in agriculture, health, industry and environment and routinely offers up-to-date training programs to support the study of most vibrant disciplines of science and technology in the country. Now NIBGE is pleased to announce the 18<sup>th</sup> training course in the series of short-term training program on "Modern Techniques in Biotechnology".

## Topic coverage

- ▶ Modern Techniques in Biotechnology
- ▶ DNA based Information Technologies
- ▶ Transformation Technology
- ▶ Gene expression and function
- ▶ Proteomics
- ▶ Enzymology/Microbiology
- ▶ Bioinformatics/Data interpretation
- ▶ Imaging Techniques
- ▶ Human genome
- ▶ Cytogenetics
- ▶ Chromatographic Techniques (LC-MS/MS, GC-MS)
- ▶ CRISPR technology
- ▶ Nanotechnology

## Course Faculty:

Kalsoon Akhtar, N. A. Saeed, Samina Iqbal, Mazhar Iqbal, Hamid Rashid, M Arif, Waheed S. Khan, Fathia Mubeen, M. Afzal, Imran Amin, Sumera Yasmin, Fazali Rabbi, M. Asif, Abdul Tawab, M. Arshad, Asma Imran, Ameena Mubeen, Ayesha Ihsan, Sadia Bajwa, Asma Rehman, Hazrat Ali, M. Imtiaz, Amir Shahzad, M. Farooq, Rubab Zahra, Huma Tariq, Jawaria Hashmi, and M.J. Iqbal.



Detection of Rhizospheric Bacteria

## 19<sup>th</sup> National Training Course on Modern Techniques in Biotechnology November 20-24, 2023

**Participants:** 25

### Who can apply

Researchers under 40 years of age with an M. Sc degree in life sciences and working in academia, universities or industrial laboratories. Preference shall be given to permanent employees of the research centers/departments/universities working in biotechnology or planning to initiate work in this area.

**Closing date:** November 10, 2023  
**Duration:** 5 days  
**Venue:** NIBGE, Faisalabad

### Registration fee:

#### Category of participants

#### Local participants (With working lunch/tea)

Faculty, Researchers, employees	Rs. 8000 (Mandatory on acceptance)
Students	Rs. 4000

#### Residential participants (with accommodation, breakfast, lunch, dinner) (Optional)

Faculty, Researchers, employees	Rs. 15,000/5 days
Students	Rs. 10,000/5 days

\* Registered participants will be provided with registration pack including course manual and required stationary.

Note: All dues should be paid before or at the time of registration by the participants in form of cash/bank draft in the name of account officer NIBGE.

### Organizers

#### Chair of the organizing committees:

Dr. Zahid Mukhtar DG A&B, PAEC  
Dr. Kalsoon Akhtar (Director, NIBGE)

#### Organizing Committee

Dr. Fathia Mubeen  
(Course organizer)  
Dr. Sumera Yasmin  
Dr. Asma Imran  
Dr. Muhammad Imtiaz

#### Advisory Committee

Dr. Nasir A. Saeed  
Dr. Samina Iqbal  
Dr. Mazhar Iqbal  
Dr. Hamid Rasheed

### For Correspondence:

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Soil & Environmental Biotechnology  
Division (NIBGE)  
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