

4th National Training Course on "Bacterial Identification and Metagenomics"

Organizers

Chair of the organizing committee

Dr. Shahid Mansoor *SI*, Director, NIBGE

Organizing Committee:

Dr. Qaiser M. Khan, Head S & EBD, NIBGE
Dr. M. Sajjad Mirza, DCS, NIBGE (Course Organizer)
Raja Abdul Razzak, PS, NIBGE
Dr. Ghulam Rasul, PS, NIBGE
Dr. Fathia Mubeen, PS, NIBGE
Dr. Sumera Yasmin, PS, NIBGE
Ms. Naima Hamid, SS, NIBGE
Dr. Asma Imran, SS, NIBGE



NIBGE

National Institute for Biotechnology and Genetic Engineering (NIBGE) was established in 1992 as a pioneer institute in the country with the mandate to work on four major research areas *i.e.* agriculture, health, environment and industry. During the span of time, highly qualified scientific manpower has joined the Institute and a matching infrastructure and research facilities have been developed. Due to the outstanding performance, NIBGE has been declared as a "Center of Excellence in Biotechnology" by Min S&T. In addition to basic research facilities required for Genetic Engineering and Biotechnology work, highly sophisticated equipments have been procured to facilitate the research work. Major equipments include Thermocyclers, Real Time Quantitative PCR, Bi-olistic Gene Gun, Microarray System, DNA Sequencers, Transmission Electron Microscope, Field Emission Scanning Electron Microscope, Confocal Laser Scanning Microscope, Atomic Force Microscope, CV Chromoscan, Atomic Absorption Spectrophotometer, Elemental Analyzer, HPLCs, Gas Chromatographs, GC Mass Spectrometer and LC/MS/MS Spectrometer facility.

Human resource development specialized in biotechnology is one of the major objectives of the Institute and NIBGE is contributing effectively in this area by conducting M.Phil and Ph.D biotechnology programmes in collaboration with Quaid-i-Azam University Islamabad and Pakistan Institute of Engineering and Applied Sciences (PIEAS) Islamabad. Research facilities and expertise available at NIBGE are extended not only to private and public sectors at individual level but also by organizing specialized training courses regularly for researchers, university students and teachers.

Painting "Diversity of microbes"



by: Dr. Akkermans (Late), Wageningen Agri Uni, The Netherlands

For Correspondence:

Dr. M. Sajjad Mirza (Course Organizer)

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

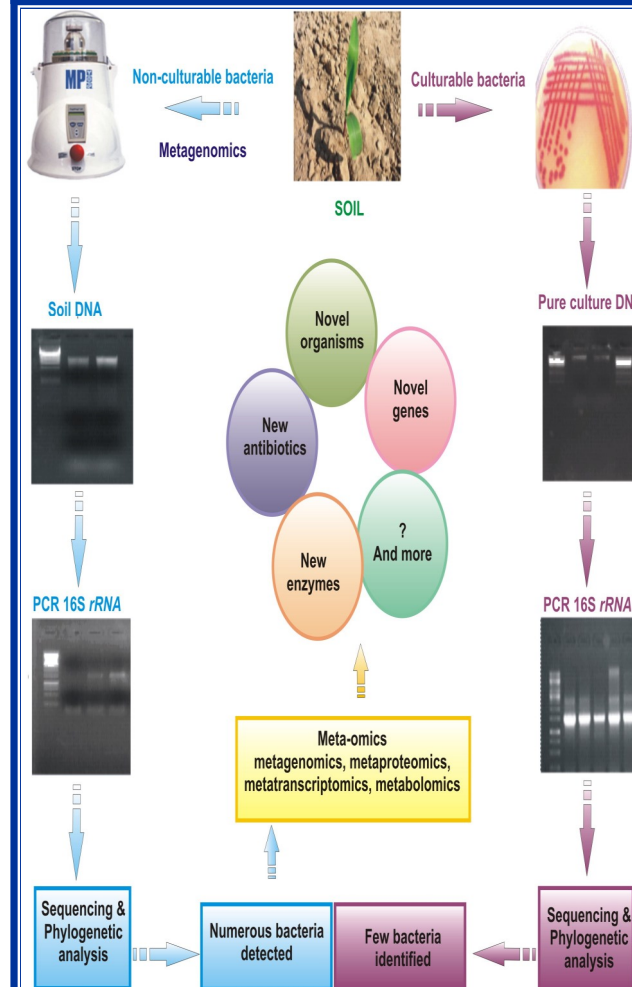
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4th National Training Course
on
**Bacterial Identification
and
Metagenomics**
March 16-20, 2015



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

Tel: 92 41 2651475-79, Web: www.nibge.org

Course Introduction

During the training course, conventional microbiological techniques to study “Culturable” fraction of bacterial populations as well as modern molecular techniques will be employed to study metagenomics of non-culturable bacteria in the soil. Special emphasis will be given to demonstrate extraction of DNA from soil and other sources of mixed bacterial populations by using a specifically designed DNA extraction instrument “Bead Beater”.

Course Outline:

- ☐ Purification of bacteria from soil samples using selective and non-selective growth media
- ☐ Differentiation of bacterial strains by PCR
- ☐ Identification of bacteria by 16S rRNA sequence analysis
- ☐ Extraction of DNA from soil
- ☐ PCR amplification of 16S rDNA from soil DNA
- ☐ PCR amplification of a functional gene *nifH* from soil DNA
- ☐ Diversity of culturable and non-culturable bacteria
- ☐ Data analysis and interpretation

Faculty:

Dr. Shahid Mansoor	Dr. M. Sajjad Mirza
Raja Abdul Razzak	Dr. Ghulam Rasul
Dr. Samina Iqbal	Dr. Fathia Mubeen
Dr. Sumera Yasmin	Ms. Naima Hamid
Dr. Asma Imran	

Participants: 20

Students, researchers and post-graduate fellows from academia, research institutions, universities, hospitals and industrial laboratories are eligible.

Registration/Bench fee/Lunch/Tea: Rs. 3000/- (*Mandatory*)

*Accommodation, Meals: Rs. 3000/5 days
(*Optional*)

**This extra amount to be paid in addition to registration fee if accommodation and meals are required*

Note : Dues may be paid only after acceptance of application by the course organizers

All dues should be paid as cash or Bank Draft, in the name of **Accounts Officer NIBGE, Faisalabad**

Dr. M. Sajjad Mirza
Dr. Ghulam Rasul
Dr. Fathia Mubeen
Ms. Naima Hamid

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Closing date: 9th March, 2015


Duration: 5 days

Venue: NIBGE, Faisalabad

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APPLICATION FORM

Name:	
Father/Spouse:	
Date of Birth: Gender:	
NIC no:	

NIC no:

Affiliated Institute:

Address:

Academic Qualification:

B.Sc (Hons):

M.Sc /MBBS

Additional Qualification:
(If any)

Research/Training Experience:

Hostel Accommodation & Meals

Required / Not Required

Sig / Seal̄

(Signature of the Applicant)

(Head of the Institute)

- Last date for the submission of forms is 9th March, 2015
- Registration Fee and other charges may be deposited as cash or Bank Draft in the Name of **Accounts Officer NIBGE, Faisalabad**
- Send complete application form along with CV, copy of NIC & recent photograph to: The Course Organizer “4th National Training Course on “Bacterial Identification and Metagenomics” *National Institute for Biotechnology & Genetic Engineering, NIBGE, P.O. Box 577, Jhang Road, Faisalabad- PAKISTAN* or
E. mail: sajjadmirza58@gmail.com
- Application forms can also be downloaded from <http://www.nibge.org>