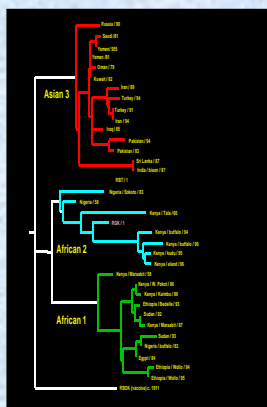


NIBGE is contributing to capacity building in various areas of biotechnology at national level. It was formally inaugurated in January 1994. During this time, it has established itself as “*Center of Excellence in Biotechnology*” by upgrading its infrastructure and improving the quality of scientific manpower. It is an affiliate center of the “International Center of Genetic Engineering and Biotechnology” (ICGEB), Italy. NIBGE research is focused in the field of health, agriculture, industry and environment & has accordingly developed its research programs. Molecular Diagnostic lab of Environmental Biotechnology Division (EBD), NIBGE has organized several laboratory training courses on molecular & related techniques for diagnosis of animal pathogens and their control.

*The Pioneer lab in country for PCR based diagnosis of animal pathogens*



FMDV Brucella PPR RP  
Molecular Diagnosis of Important Animal Diseases



Molecular Diagnostic Group, EBD, NIBGE

## 8<sup>th</sup> National Training Course on “Molecular Diagnosis of Infectious Diseases of Livestock & Poultry” April 6-8, 2015

### ORGANIZERS

#### Patron in Chief:

Dr SM Javed Akhtar, Member Sciences,  
PAEC

#### Advisory Committee

Dr Nayyar Iqbal, Director, A&B, PAEC  
Dr Shahid Mansoor, Director, NIBGE  
Dr Adama Diallo (IAEA-Expert) Vienna

#### Organizing Committee:

Dr Qaiser M Khan	DCS, EBD
Mrs Ameena Mobeen	SS, EBD
Mr Muhammad Asif	JS, EBD

### For Correspondence & Information

Dr Qaiser Mahmood Khan

(Course Organizer)

Deputy Chief Scientist

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## 8<sup>th</sup> National Training Course

on

## Molecular Diagnosis of Infectious Diseases of Livestock & Poultry

April 6-8, 2015



## Environmental Biotechnology Division

National Institute for  
Biotechnology and Genetic  
Engineering (NIBGE)  
(ISO-9001:2008)

<http://www.nibge.org>

A dedicated Biotech Institute  
of  
PAKISTAN ATOMIC ENERGY  
COMMISSION



## ABOUT TRAINING COURSE

The infectious diseases of livestock remain a key constraint to efficient livestock production in developing countries including Pakistan and have great concern with respect to the health, economic & environmental status of the country. The success of any disease control or eradication program relies on the robustness, efficacy of diagnosis, surveillance & monitoring methods as well as prophylactic measures. Molecular techniques have been successfully exploited to improve both the speed and accuracy of disease diagnosis and development of efficacious vaccines for human and animal health. This course will be structured to include both theoretical principles and hands on training on molecular diagnosis of animal diseases & other relevant techniques used for disease diagnosis.

## AIMS & OBJECTIVES

The purpose of this training course is to update the participants in their knowledge on the latest advances in molecular diagnosis and control of important animal diseases. It also plans to provide practical experience that will help to enhance the skills of the participants with regard to applying their knowledge in molecular biology to diagnose and control important animal diseases.

## COURSE OUTLINE

- Field sample handling/ preparation
- Bacterial DNA and viral RNA isolation from clinical samples
- Primer selection, cDNA synthesis, PCR amplification and analysis of PCR product
- Real time PCR for disease diagnosis
- Loop mediated isothermal amplification (LAMP)
- Modern Vaccine Development
- Molecular Markers for Livestock improvement.
- A comprehensive Lab manual will be provided.

## COURSE FACULTY

Dr Shahid Mansoor, Dr Qaiser M Khan, Dr Rob Briddon, Dr Rubina Tabassum, Dr Samina Iqbal, Dr Mehboob ur Rahman, Dr Imran Amin, Mrs Aameena Mobeen, Mr Muhammad Asif, Dr Adama Diallo (IAEA –Expert) and Mr Waqas.

## PARTICIPANTS: 20

*An Excellent Opportunity for Veterinarians, researchers, students & faculty members from academia and research institutes. Preference will be given to regular employees working on disease diagnosis & prophylaxis*

## REGISTRATION FEE

**Per Participant = Rs 3500 /-**

## APPLICATION CLOSING DATE

**31 March, 2015**

## TRAVEL & ACCOMODATION

The nominating institutions or the participants themselves shall bear the cost of travel and stay at Faisalabad. No TA/DA will be given to the participants. Very limited accommodation may be available at NIBGE student's hostel "on payment".

## SECURITY CLEARANCE

Please note that security clearance is prerequisite for participants and **original CNIC (NOT THE COPY)** is required for entrance at the main gate of NIBGE.

## Registration Form

### **"8<sup>th</sup> National Training Course"** **Molecular Diagnosis of Infectious Diseases of Livestock & Poultry** **April 6-8, 2015**

Name: \_\_\_\_\_  
Official Position: \_\_\_\_\_  
CNIC: \_\_\_\_\_  
Date of Birth: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

**Recent  
Photograph**

Phone: \_\_\_\_\_ Cell#: \_\_\_\_\_

E-mail: \_\_\_\_\_

Highest Academic Qualification: \_\_\_\_\_

Research/Training experience: \_\_\_\_\_

Particular interest in the training: \_\_\_\_\_

\_\_\_\_\_  
Signature /Seal\_\_\_\_\_

Applicant's Signature      Head of Department

(Note: Please attach one CNIC copy, brief CV and two photographs with this form)

### **Registration:**

The applicant can register online or by mail. Registration fee can be deposited on spot at registration desk at NIBGE on 6<sup>th</sup> April 2015 or can be sent as bank/demand draft in the name of "Director NIBGE-Faisalabad" along with duly filled/signed registration form and other supporting documents. The duly signed registration forms must reach before the closing date; please note that these cannot be accepted at the reception desk.

### **Submission of Registration Form**

Registration forms can be sent by email to [amina2531@yahoo.com](mailto:amina2531@yahoo.com) after filling in the desired information along with the soft copies of the brief CV, CNIC, photographs and the scanned copy of demand draft.