

INTRODUCTION

The Nuclear Institute for Agriculture and Biology (NIAB), an establishment of Pakistan Atomic Energy Commission (PAEC), is primarily a research institute involved in goal oriented biological and agricultural research. NIAB is well equipped and has a qualified staff of 75 scientists, 50 of them are holding Ph.D. degrees in various disciplines of science. NIAB also maintains a close liaison with other establishments of PAEC and various institutions involved in R & D activities at home and abroad.

Utilizing the expertise and the facilities available at the Institute, the Vaccine Development Group is going to conduct a training course on laboratory diagnosis of infectious diseases in which students, researchers and teachers can participate and learn various techniques and methodologies for identification of pathogens.

The Three days course has been designed to acquaint the participants with theoretical and practical aspects of both conventional and advanced techniques used for diagnosis of infectious diseases. It also comprises lectures in specialised subjects of designing the diagnostic assays and good laboratory practices. Successful completion of the course would enhance your skills and practical insight at your work place.

COURSE DESCRIPTION

Scope:

- ❖ Applications and Principle of Real Time PCR (qPCR) for rapid diagnosis
- ❖ Applications of Polymerase Chain Reaction (PCR, RT-PCR) for detection of viral nucleic acids
- ❖ Applications and Principle of ELISA for Identification of serum antibodies in animals

Hands-on Training:

- ❖ Detection of Lumpy Skin Disease Virus (LSDV), Peste-des-Petits Ruminants Virus (PPRV), Foot and Mouth Disease virus (FMDV) via polymerase chain reaction (PCR) and Real Time PCR (qPCR).
- ❖ Detection of antibodies against Avian Influenza virus and Peste-des-Petits Ruminants Virus (PPRV) by competitive ELISA.



SCHEDULE

Time and Venue:

01st – 03rd March, 2023
Vaccine Development Group,
Animal Sciences Division, NIAB, Faisalabad

Receipt of Applications:

Duly filled application form along with copy of CNIC and two passport size photographs must reach the organizer by **24th February, 2023**. Application forms can be downloaded from NIAB website (www.niab.org.pk). Advance copy of application can be sent by email on address: mudasserhabib@yahoo.com. Only the selected applicants will be allowed to attend the training. Selection will be conveyed through email or post.

Registration Fee:

Students: Rs. 3000/-
Researchers / Officials: Rs. 3500/-
(After selection candidates are advised to deposit registration fee)

Award of certificates:

Certificates will be awarded to the participants on completion of the course.

TRAVEL AND ACCOMMODATION

The nominating institutions or participants themselves shall bear the cost of travel and stay at Faisalabad. However, NIAB will help to secure moderate priced accommodation for the participants, if requested well in advance. Transport to and from the venue of the course (NIAB) will be provided for fixed points in the city free of charge.

PATRON-IN-CHIEF:

Dr. Raja Ali Raza Anwar, Chairman PAEC

PATRON:

Dr. Masood Iqbal, Member (Science)

ADVISORY COMMITTEE:

Dr. Iftikhar Ali, DG (Agri. & Biotech.)

Dr. Yousuf Saleem, DCS/ Director, NIAB

Dr. Manzoor Hussain, DCS/ Officiating Director NIAB

Dr. Uzma Maqbool, DCS/ Head ASD, NIAB

ORGANIZING COMMITTEE:

Dr. Mudasser Habib

Principal Scientist/ Course Organizer

Dr. Muhammad Salah-ud-Din Shah

Principal Scientist/ Co-organizer

FACULTY:

Dr. Zafar-ul-Ahsan Qureshi

(Principal Veterinary officer (Retd), Ex Director, VRI, Lahore)

Dr. Arfan Ahmad

(Associate Professor, UVAS, Lahore).

Dr. Moazur Rahman

(Professor, SBS, Punjab University, Lahore)

Dr. Uzma Maqbool

(Deputy Chief Scientist, NIAB)

Dr. Hamid Irshad

(Principal Scientific Officer, NARC, Islamabad)

Dr. Imran Amin

(Principal Scientist, NIBGE)

Dr. Muhammad Abu-Bakar

(Senior Scientific Officer, NVL, Islamabad)

Hafiz Muhammad Muzammil

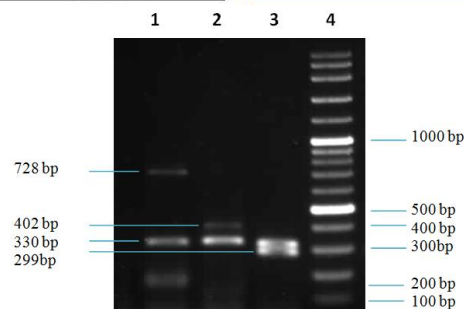
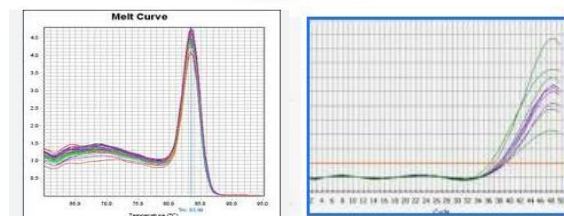
(Research Associate, NIAB)

Mr. Irfan Ullah Khan

(Senior Scientific Assistant, NIAB)

Mr. Asad Javed

(Scientific Assistant I, NIAB)



ENQUIRIES:

Further information regarding the course is available from the organizer:

Dr. Mudasser Habib

Principal Scientist/ Course Organizer
Nuclear Institute for Agriculture and Biology (NIAB), P. O. Box No. 128, Jhang Road, Faisalabad, PAKISTAN.

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E-mail: mudasserhabib@yahoo.com

Web: <http://www.niab.org.pk>



Hands-on Training

On

**“Serological and Molecular
Techniques for Animal Disease
Diagnosis”**

01 – 03 March, 2023



**Vaccine Development Group
Animal Sciences Division**

**NUCLEAR INSTITUTE FOR AGRICULTURE AND
BIOLOGY (NIAB), FAISALABAD**

(PAKISTAN ATOMIC ENERGY COMMISSION)