

PATRON-IN CHIEF

Dr. Raja Ali Raza Anwar, HI, SI, PoP,
Chairman, PAEC

PATRON

Dr. Shakeel Abbas Rofi, PoP, Member
(Science), PAEC

Dr. Waheed S. Khan, DCS/DG (A & B), PAEC

ORGANIZING COMMITTEE

Dr. Uzma Maqbool, DCS/Director, NIAB

Dr. M. Kashif Riaz Khan, DCS /Head PBGD NIAB Dr.

Saba Akram, SS, NIAB (Organizer)

Dr. Abdul Rehman Khan, PS, NIAB

Benish Iltaf, JS, NIAB

FACULTY

Dr. Muhammad Kashif Riaz Khan, DCS, NIAB

Dr. Mian Abdul Rehman Arif, PS, PAEC

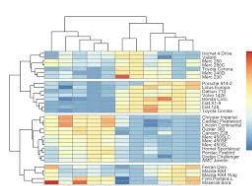
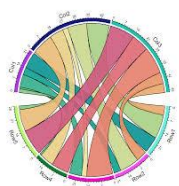
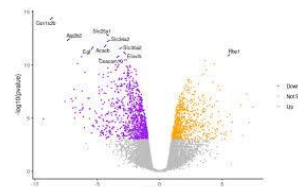
Mr. Jafar Hussain, PS, NIAB

Dr. Sajid Shukat, PS, NIAB

Dr. Saba Akram, SS, NIAB

Ms. Ayesha Wadood, SS, NIAB

Ms. Maria Ghaffar, SS, NIAB



ENQUIRIES/INFORMATION

Workshop Coordinator

Dr. Saba Akram SS/Organizer,
Plant Breeding and Genetics Division, NIAB,
Jhang Road, Faisalabad, Pakistan.

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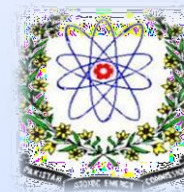
Email: sabaakram3463@yahoo.com;

sabaakram@niab.org.pk

Application form can be downloaded from

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

Note: Participation is on a first-come, first-served basis.



3rd Training workshop on

“SCIENTIFIC DATA ANALYSIS USING R-SOFTWARE”

(November 02-04, 2026)

(Hands-on)



at

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

(PAKISTAN ATOMIC ENERGY COMMISSION)

WORKSHOP PREAMBLE

The Nuclear Institute for Agriculture and Biology (NIAB), an establishment of the Pakistan Atomic Energy Commission (PAEC), is a leading research institute engaged in agricultural and biological research. NIAB regularly organizes specialized training courses to enhance the research and technical skills of students, researchers, teachers, and professionals.

The three-day training course on “Scientific Data Analysis Using R Software” is designed to equip participants with practical skills to manage, analyze, visualize, and interpret scientific data using R and RStudio. The course will cover commonly used statistical approaches and graphical techniques, with practical examples relevant to agricultural, biological, and experimental research.

Participants will gain hands-on experience in transforming raw research data into meaningful statistical results, informative graphs, and publication-ready outputs, enabling them to conduct more efficient, reliable, and reproducible scientific analyses.

WORKSHOP DESCRIPTION

Lectures:

- Brief history and introduction to R & RStudio
- Getting started with R & RStudio
- Requirements for Data analysis in RStudio
- Data Curation
- Analyzing data from CRD, and RCBD using the ANOVA approach and post-ANOVA test through R.
- Principal Component Analysis (PCA)
- Correlation and cluster analysis
- Multi trait genotype idiom (MGIDI) using R
- R shiny-apps i.e. FieldHub, Circos etc.
- Data visualization (ggplot2, plotly, GWalkR)
- RNAseq and WGCNA



SCHEDULE

Time and venue:

November 02-04, 2026

Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad, Pakistan

Receipt of application:

Duly filled Application form along with copy of CNIC and two passport size photographs must reach the organizer by **October 23, 2026**. Application after due date will not be entertained. Application form can be downloaded from NIAB website (www.niab.org.pk). Advance copy of application as scan can be sent by email (sabaakram3463@yahoo.com).

Registration Fee:

Students: Rs. **3000/-**

Researchers/Faculty members: Rs. **6000/-**

PIEAS Students: **2000/-**

Please pay in the form of demand draft (in the name of Head LAO, NIAB, Faisalabad)/cash Payment.

Certificates will be awarded to all the participants.

Travel & accommodation:

The nominating institutions/participants themselves shall arrange and bear the cost of travel and stay.

Working lunch will be available at NIAB Officers cafeteria on cash payment.

Attention: All participants are advised to bring their laptops with prior installed R-Software and R-Studio