

High end workshop

**“Hands-On Training Workshop on Plant Pest/Pathogen
Diagnostics Associated with Hill Agriculture”**

under

Accelerate Vigyan Scheme



Date: 20th - 30th December 2022

Sponsored by: Science and Engineering Research Board

Organized by: ICAR-VPKAS, Almora-263601, Uttarakhand



Objectives

- To develop dedicated research skill and training in the area of disease diagnosis and identification of plant pest, pathogens and nematodes associated with hill agriculture. To bring exposure and opportunity to learn lab and field-based techniques through high standard practices with experts and support to skill and manpower development in area of integrated pest diagnostics.

Eligibility and Selection

- Number of participants: (a) 10 PhD Students (b) 10 PG Students
- Students pursuing masters and PhD in Agriculture/Biology/Zoology or any field conducting research work/planning to on molecular aspects.

Instructions

- **Free accommodations and food** will be provided in farmers training hostel, Hawalbagh, Almora
- **TA will be reimbursed** to participating students as per SERB guidelines.
- Certificate shall be issued to the participants post completion of workshop.
- **Registration fee: 1500/**

Registration

- Visit ICAR-VPKAS, Almora, website vpkas.icar.gov.in for registration or follow the given registration link
- Selected candidates will be informed through email.
- Registration deadline is 08/12/2022.

Workshop lectures

- Significance of plant pest/pathogen diagnostics to ensure food security
- Detection of Wheat rust disease using array of techniques and their application
- Molecular diagnostics for fungal plant pathogens
- DNA based markers in diagnostics of fungal diseases
- Next generation high-throughput DNA sequencing techniques and application
- A practical approach to phylogenetic analysis and species delineation using MEGA programme
- Nematode diversity and detection under hill agriculture
- Insect pest associated to hill agriculture and their identification
- Rapid DNA extraction technique for insect pest identification
- Introduction to molecular based virus diagnostic techniques, principle and its application

Note: Practical session after each lecture will be conducted therefore it is advised all participant to bring your **laptop** and accessories.

Registration link:

<https://forms.gle/ChR7WWaLYmQusfTt6>

Course Director

Dr Lakshmi Kant
Director, ICAR-VPKAS

Course co-ordinators

Dr Ashish K. Singh*
Dr Gaurav Verma
Dr K. K. Mishra

*Event organizer

Dr Ashish K Singh, Scientist, Nematology, Crop Protection Division, ICAR-VPKAS Almora-263601

Email: sashish0825@gmail.com

Mo: +917065482034