



Hands-on Training in Molecular Markers and Tissue Culture Assisted Plant Breeding

Sponsored by Science and Engineering Research Board (SERB), Department of Science and Technology, Govt of India under the Accelerate Vigyan Scheme

About IARI

Indian Agricultural Research Institute, or 'Pusa Institute' is the country's premier institution for research and higher education in the field of agricultural and other allied sciences. The primary mission is to explore new frontiers of science and knowledge and develop quality human resources to provide leadership to the country in technology development and policy guidance. The institute conducts basic and strategic research, serves as a center for academic excellence, and provides national leadership in agricultural research, education and extension through the development of new concepts, hypotheses and technologies.

About the Training

Marker-assisted selection (MAS) is a breeding tool which is being used to make more accurate and useful selections in breeding populations leading to crop improvement programs. MAS allows heritable traits to be linked to the DNA segments that are responsible for controlling that trait. DNA/QTLs can be detected through specific laboratory techniques such as molecular markers.

Plant tissue culture is one of the promising and efficient technologies which has opened and widened the scope of plant research. It is largely used for plant multiplication but recently, this technology is being used for plant propagation, disease elimination, crop improvement and production of secondary metabolites.

The goal is to provide a holistic experience to postgraduate and research scholars wherein they will be exposed to the various molecular biology and tissue culture laboratory instruments and techniques. This hands-on training will provide an excellent opportunity to motivate and inculcate innovations and ideas in their future study plans. Also, the students and young researchers together with experts and scientists will interact in various domains of exciting field of plant biology. The overall goal of this training is to provide a forum for the exchange of information and ideas on different molecular biology and tissue culture to be used in plant improvement and breeding programs.

Participation and Eligibility

Offline mode: Participants pursuing either M.Sc. or Ph.D. programmes from AICTE approved Central and State Universities in any field of Agricultural Sciences and Biological Sciences.

Eligibility: Participants must submit a valid identity card issued by their college/institution and 'No Objection Certification (NOC)' from the Head of the Department/Supervisors during application and must produce in the event of selected for the training program.

Number of participants: 20

Selection criteria: Based on the application (purely based on merit and statement of purpose).

Online mode: Bachelor's/Master's/Ph.D (pursuing or passed) in any field of Agricultural Sciences and Biological Sciences.

Eligibility: Participants must submit a valid identity card issued by their college/institution.

Registration Details

Registration fee: No fee

Registration link (mandatory for all)

<https://forms.gle/Q2uEo6Yo4Vpm9Kur7>

Offline mode (mandatory for offline):

<https://forms.gle/6qvEs2qbuzdZdXwd9>

Travel, Accommodation and Food

All the selected students (offline mode) will be provided with travel allowance (as per GOI norms). Accommodation (on shared basis) and food will be provided to participants for the entire training duration.

Venue Details

Venue: Division of Genetics, Indian Agricultural Research Institute (ICAR-IARI), New Delhi, Delhi, India – 110012.

Online: Zoom (link will be shared with participants later).

Important Dates

Registration: 17 May – 17 June 2023

Intimation: 19-20 June 2023 (to offline selected candidates)

Training: 24 July – 2 Aug 2023

Contact details: Organising Team, soygenetics@gmail.com

Certifications will be provided to all participants on successful completion

Organizing Committee

Chief Patron

Dr A K Singh (Director)

Dr C Viswanathan (JD (Res))

Patron

Dr Gopala Krishnan S (Head, Div of Genetics)

Event Organizer

Dr R Ambika Rajendran (Sr Sci, Div of Genetics)

Event Coordinators

Dr S K Lal (Pr Sci, Div of Genetics)

Dr Akshay Talukdar (Pr Sci, Div of Genetics)

Organizing Secretary

Dr Manisha Saini (Sci, Div of Genetics)

Organizing Members

Ms Deepshikha Sharma

Mr Ayyagari Ramlal