



Training Programme on Genetically Engineered (GE) Plants: Biosafety Considerations, Policies, Challenges and Detection Strategies (Hybrid Mode)

19-25 JULY 2022

Course Director: Dr. Gurinderjit Randhawa
Course Convenors: Dr. Monika Singh
Dr. Vandana Tyagi

Organized by
ICAR-National Bureau of Plant Genetic Resources
New Delhi 110 012

Background

ICAR-National Bureau of Plant Genetic Resources (ICAR-NBPGR) is the nodal institute at national level for acquisition, management and genomics based profiling of indigenous and exotic plant genetic resources for food and agriculture and to carry out related research and human resources development. Being the nodal agency for issuing Import Permit for transgenic planting material imported for research purposes, besides quarantine processing, molecular testing of imported transgenes is being undertaken since 1998.

GM Detection Research Facility (GDRF) is accredited as per the international standard ISO/IEC17025:2017 by the National Accreditation Board for Testing and Calibration Laboratories (NABL), a Constituent Board of Quality Council of India, with the scope of GM testing of seeds of ten GM crops, namely, Apple, Brinjal, Cotton, Flax, Indian mustard/ Canola, Papaya, Maize, Rice, Soybean and Wheat and GM testing in Oil of Canola, Cottonseed, Indian Mustard and Soybean. The Facility is also a designated National Referral Laboratory to detect the presence or absence of Living Modified Organisms (LMOs) and Genetically Modified Organisms (GMOs) under sub-section (1) of Section 4 of the Seeds Act, 1966 in a Gazette of India: Extraordinary Notification (Department of Agriculture, Cooperation and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Government of India) dated 15 November 2017.

Aim of the training course

The DBT-sponsored “National Programme for Quarantine and GM Diagnostics of Genetically Engineered Plant Material” is implemented at ICAR-NBPGR, New Delhi since September 2020. One of the objectives of Component-2 of this programme is to develop critical mass of human resources in the area of detection of GE plants (including GM as well as genome edited plants) and biosafety issues related to GE plants.

With increase in number of GM events and diversification of traits, cost-effective GM diagnostics could ensure public confidence and solve legal disputes if any. The course is thus designed to orient the researchers, representatives from GM testing laboratories, custom officials and other stakeholders, on GE detection and biosafety concerns related to GE plants.

Course content

- Introductory Concepts of Genetically Engineered (GE) Plants
- National Regulatory Framework for GE Plants
- Genetically Engineered Crops: Technologies, Applications and Biosafety Considerations
- Understanding the IPR landscape of GE Plants
- Molecular Detection of GE Plants: Current and Emerging Technologies
- Hands-on-training on GE Detection

Organizing Committee

Advisory

Dr. Ashok Kumar
Director (Acting), ICAR-NBPGR

Dr. Sanjay Kalia
Scientist-E, Department of Biotechnology

Course Director

Dr. Gurinderjit Randhawa

Convenors

Dr. Monika Singh
Dr. Vandana Tyagi

Members

Ms. Kushaldeep Kaur, Technical Assistant
Dr. Raghavendra Aminedi, Project Scientist III
Dr. Paramita Palit, Project Scientist II
Ms Shiwani Soni, Project Associate II

Who can participate?

Participation is invited from Researchers/ Scientists from ICAR Institutes/ SAUs/ Central/ State Government Organizations, GM testing laboratories, Directorate of Plant Protection, Quarantine & Storage and private sector.
Preference will be given to the Institutional Biosafety Committee (IBSC) members of the organizations or the participants involved in GM detection

Registration fee/ TA/ DA

- There is **no registration fee** for participants to attend this training.
- **TA/ DA** would be met as per the Rules.
- The selected participants would be intimated in 3 working days of the last date of submission of Nomination.

**Registration Form for
Training Programme on
Genetically Engineered (GE) Plants:
Biosafety Considerations, Policies, Challenges
and Detection Strategies (Hybrid Mode)**

1. Name:
2. Date of Birth (DD/MM/YY)
3. Gender:
4. Designation:
5. Present Employer and Address:
6. Relevant Experience (in brief):
7. Present Field of Specialization:
8. Are you an Institutional Biosafety Committee (IBSC) a) Member b) Member Secretary in your institute? Please specify
9. Expectation from the training programme:
10. Contact details:
Address:
E-mail ID:
Phone:
14. Mode of attending; VIRTUAL/ IN PERSON

Date
Place

Signature of the Applicant

Recommendation of Head of Forwarding Organization:

This is certified that the above information is correct and the employee will be allowed to participate in the Training.

**(Signature with Date & Designation
of the Competent Authority with Stamp)**

Note: The duly filled-in Registration Form in the prescribed format and forwarded by the Competent Authority should reach through E-mail to gdrflab@gmail.com not later than **4 July 2022**.

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