



DEPARTMENT OF BIOTECHNOLOGY  
MINISTRY OF SCIENCE & TECHNOLOGY  
GOVERNMENT OF INDIA



**Training**  
**on**  
**Biosecurity and Biosafety:**  
**Policies, Diagnostics, Phytosanitary Treatments and Issues**

**September 15-24, 2021**



**Course Directors** : Ashok Kumar, Director, ICAR-NBPGR  
V. Celia Chalam, Head, Division of Plant Quarantine, ICAR-NBPGR

**Course Convenors** : Kavita Gupta  
Zakaullah Khan  
Jameel Akhtar

**Organized**  
**by**  
**ICAR-National Bureau of Plant Genetic Resources**  
**New Delhi – 110012**

## About the Institute

The ICAR-National Bureau of Plant Genetic Resources (ICAR-NBPGR) with its headquarters at New Delhi, India is the nodal organization in India under the aegis of the Indian Council of Agricultural Research (ICAR) for management of plant genetic resources. As per Plant Quarantine (Regulation of Import into India) Order, 2003 under Destructive Insects & Pests Act 1914, ICAR-NBPGR is entrusted with the responsibility of issuing import permits and quarantine processing of germplasm including transgenics meant for research. Also, ICAR-NBPGR issues Phytosanitary Certificate for export of germplasm which is a mandatory requirement for complying with the International Plant Protection Convention and the importing country.

## Background & Facility

Introduction of useful planting material from other countries has played a significant role in diversifying agriculture and boosting the production. However, there is a risk of inadvertent introduction of pests along with the imported material. National Plant Protection Organizations have the responsibility to protect their agriculture from transboundary pests. Biosecurity is a strategic and integrated approach that encompasses the policy and regulatory frameworks that analyses and manage risks in the sectors of food safety, animal and plant health including environmental risk. Over the years, the Division of Plant Quarantine has developed a well-defined mechanism for undertaking the quarantine of imported plant material including transgenics for both public and private sectors. It has *state of art* facilities and expertise to undertake quarantine including diagnostics of pests and salvaging of infested/infected materials. Developing sensitive methods including molecular techniques for pest diagnosis to minimize the risks of introduction of exotic pests is important as imported germplasm material is precious and usually exchanged in small quantities. The quarantine measures are critical for ensuring biosecurity by regulating transboundary movement of pests. Besides, biosafety issues also need to be ensured which entail assessment and management of risks arising from the genetically engineered plants using recombinant DNA technology. India is a party to Cartagena Protocol on Biosafety, an international agreement for ensuring safe handling, transport, packaging and identification of living modified organisms.

## Training Course

The DBT-sponsored project “National Programme for Quarantine and GM Diagnostics of Genetically Engineered Plant Material” is operational at ICAR-NBPGR, New Delhi. One of the objectives of this project is to train human resources in the area of biosecurity/ biosafety issues related to GE plants. The course is thus designed to orient the researchers, plant quarantine officials and other stakeholders and aim is to develop a critical mass at national level who can comprehend, appreciate and participate in tackling various issues related to biosecurity/ biosafety concerns related to genetically engineered plants. A total of 30 participants would be selected based on their qualification, experience and nature of work being undertaken presently.

## Course Content

- National and international regulatory framework
- Biosecurity and biosafety issues
- Issues related to transboundary movement of genetically engineered plant material
- Pest diagnostics
- Phytosanitary treatments
- Risk assessment and management

### **Organizing Committee**

**Course Directors : Ashok Kumar, Director, ICAR-NBPGR, New Delhi  
V. Celia Chalam, Head, Division of Plant Quarantine, ICAR-NBPGR**

**Convenors : Kavita Gupta  
Zakaullah Khan  
Jameel Akhtar**

### **Who Can Participate?**

Participation is invited from Scientists/Teaching faculties/ Plant Quarantine Officials with post-graduation in Agriculture/ Life Sciences having research/ teaching experience in Plant Protection/ Crop Improvement/ Biotechnology/ Economic Botany etc. from ICAR Institutes/SAUs/ Central/State Government Organizations, Directorate of Plant Protection, Quarantine and Storage etc.

### **Registration Fee**

There is no registration fee for participants to attend this training in virtual mode.

**Registration Form for Participation in the Training on  
Biosecurity and Biosafety: Policies, Diagnostics, Phytosanitary  
Treatments and Issues (Virtual Mode)**

1. Participant's Details

Title: Mr.  Mrs.  Ms.  Dr

Name (in block letters):

2. Date of Birth:

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3. Gender:

M	F
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4. Academic Record (Please indicate Subject/ Year/ Univ.)

Degree	Subject	Year	University
M. Sc.			
Ph. D.			

5. Designation:

Place of Posting:

6. Present Employer and Address:

\_\_\_\_\_

\_\_\_\_\_

7. Teaching/ Research/ Professional Experience (in brief): \_\_\_\_\_

\_\_\_\_\_

8. Present Field of Specialization: \_\_\_\_\_

\_\_\_\_\_

9. Are you involved in any area of plant quarantine/biosecurity/plant protection/biosafety/biotechnology? Yes/ No

10. Do you have an Institutional Biosafety Committee (IBSC) in your institute? Yes/ No

11. Expectation from the training Programme: \_\_\_\_\_

12. Contact Details

Department:

Institute:

District:

State:

Email ID:

Mobile No.:

Phone No. (Off.):

Phone No. (Res.):

Date:

Place:

(Signature of the Applicant)

**Recommendation of Head of the Forwarding Organization**

It is certified that:

1. The above information is correct and the employee will be relieved for training.
2. Intimation of the nomination has been given within the stipulated time.

Date:

(Signature & Designation of the Competent Authority with Stamp)

**Note:** The duly filled-in registration form in the prescribed format and forwarded by the Head of the Organization should reach through email **not later than September 5, 2021** to [celia.chalam@icar.gov.in](mailto:celia.chalam@icar.gov.in) and [kavita.gupta@icar.gov.in](mailto:kavita.gupta@icar.gov.in)

**Address for correspondence:** Dr. V Celia Chalam, Head, Division of Plant Quarantine, ICAR-National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi- 110012; Phone Nos.: 011-25802787; 9968299994; Fax No.: 011-25842495; e-mail: [celia.chalam@icar.gov.in](mailto:celia.chalam@icar.gov.in); [kavita.gupta@icar.gov.in](mailto:kavita.gupta@icar.gov.in)