

**One Day Seminar on
Capacity Enhancement in Biosafety
Evaluation of GM Crops May 11, 2015**

Patron in Chief:

Dr. S. M. Javed Akhtar, Member Sciences, PAEC

Advisory Committee:

Dr. Kauser Abdulla Malik HI, SI, TI
(National Distinguish Professor, FC Univ. Lahore)
Prof. Dr. M. Iqbal Choudhary
(Director, ICCBS– HEJ Karachi)
Dr. Nayyar Iqbal, Director, A&B, PAEC

Organizing Committee:

Dr. Shahid Mansoor, SI, Director, NIBGE
Dr. Qaiser M. Khan, DCS, Head EBD
Dr. M. Afzal Ghauri, DCS, Head, IBD
Dr. Shahid M. Baig, SI, DCS, Head HBD
Dr. Zahid Mukhtar, PS, Head, ABD
Dr. Muhammad Asif, PS, ABD
Ms Aameena Mobein, SS, EBD

An Excellent opportunity for scientists, researchers, students & faculty members from academia and research institutes. Preference will be given to regular employees working on GM crops and biosafety.

Participants: 50

Registration Fee: 500 /-

Closing date: May 7, 2015

Note: Please bring **original CNIC** required for entrance at NIBGE main gate.

For Correspondence:

Dr. Shahid Mansoor, SI, Director, NIBGE

National Institute for Biotechnology and Genetic Engineering (NIBGE), P.O. Box 577, Jhang Road, Faisalabad– PAKISTAN

Tel: 092-41-9201471; 092-41-9201316-20 Ext. 234

Fax: 092-41-9201472

Cell: 0300-7944841

email: shahidmansoor7@gmail.com

asif.biosafety@gmail.com, amina25@gmail.com



National Institute for Biotechnology and Genetic Engineering, inaugurated in January 1994 is more than Sixteen years old now. During this time, it has established itself as “**Center of Excellence in Biotechnology**” by upgrading its infrastructure and improving the quality of scientific manpower. NIBGE has been alive to all the developments in the field of health, agriculture, industry, environment & has accordingly developed its research programs. It is an affiliate center of the **International Center of Genetic Engineering and Biotechnology (ICGEB)**, Italy and its library has been designated as **National Library of Biological Sciences**. Human resource development is the cornerstone for development in the field of biotechnology. NIBGE by all means, has emerged as a focal point for all national and international activities related to biotechnology in the country and will continue to contribute to scientific and technological development for the prosperity of the country.



**One Day Seminar
on
Capacity Enhancement
in
Biosafety Evaluation of
GM Crops
May 11, 2015**



National Institute for Biotechnology and Genetic Engineering (NIBGE), P.O. Box 577, Jhang Road, Faisalabad– PAKISTAN
Tel: 092-41-9201316-20,
Fax: 092-41-9201472, Web: www.nibge.org

Introduction to One Day Seminar

Modern biotechnology presents a great potential to solve agricultural problems that is evident with the rapid adoption of genetically modified crops (GMCs) in many countries. Agricultural biotechnology in Pakistan has made a considerable development in the recent years. To address different agricultural problems such as insect pests, diseases, weeds and abiotic stresses, biotech research is going on various crops in different biotech institutes in the country. Using novel transgenes for expression of useful traits, NIBGE has indigenously developed promising transgenic lines of four important crops, including cotton, wheat, sugarcane and potato, which are tolerant to biotic and abiotic stresses. Biosafety evaluation studies of these GM crops are being conducted to meet the requirements before their commercial release.

Concern for biosafety is an important issue in the development of GMCs. To address these concerns, international biosafety policies and regulations have evolved in parallel with the development of GM crops. According to National Biosafety Guidelines and Pakistan Biosafety Rules 2005, GM crops either developed through local efforts or imported from other countries must be evaluated before their commercial release. Implementation of these biosafety rules ensures the safety of personnel, non-targets and environment from possible risks that may be associated with GM crops. Toxic and allergenic properties are considered as focal aspects in the evaluation of potential health risks of food derived from genetically modified crops. Battery of tests for toxicological assessments of GM crops have been established at Environmental toxicology Lab, NIBGE and successfully conducted biosafety evaluation of transgenic cotton, wheat and sugarcane.

It is imperative to create awareness on biosafety of GM crops among all the stake holders. Keeping in view the importance of this area we are conducting "One day seminar on capacity enhancement in biosafety evaluation of GM crops", which will be very instrumental to enhance the capacity building in biosafety assessment of GM crops.



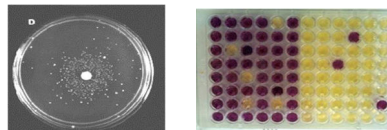
Biosafety Evaluation of GM Crops at NIBGE

In vivo Toxicity Assessment

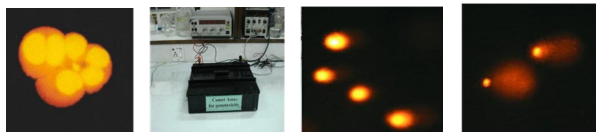


Toxicity in rats, mice, rabbits and Fish (aquatic toxicity)

Mutagenicity and Genotoxicity



Ames: Spot test Microtiter test



Micronuclei Comet assay: undamaged & damaged DNA

Evaluation of effects on non-target arthropods



Application Form One Day Seminar on Capacity Enhancement in Biosafety Evaluation of GM crops May 11, 2015

Name: _____	Recent Photograph
Official Position: _____	
CNIC No.: _____	
Date of Birth: _____	
Organization: _____	
Address: _____	
Phone: _____ Cell: _____	
E-mail: _____	
Highest Academic Qualification: _____	
Research/Training experience: _____	
Particular interest in the training: _____	
Applicant's Signature _____	Head of Department Signature /Seal

Note: Please attach one CNIC copy, brief CV and photograph with this form.

Submission of Registration Form:

Duly signed application forms along with other supporting documents can be sent or emailed to

Dr. Shahid Mansoor, SI

Director, NIBGE

P.O. Box 577, Jhang Road, Faisalabad

Email: shahidmansoor7@gmail.com

Registration:

Registration will be done at registration desk at NIBGE on 11th May, 2015.