

## REGISTRATON FORM

Name: \_\_\_\_\_

Qualification: \_\_\_\_\_

Institute/Department: \_\_\_\_\_

Official Address: \_\_\_\_\_

Tel: \_\_\_\_\_

Email: \_\_\_\_\_

Signature: \_\_\_\_\_

## AIMS & OBJECTIVES

Providing young researchers hands-on training in various biotechnological techniques used in agricultural science. The lectures given by experts will be followed by practical sessions. Every participant will get individual assistance from the resource persons.

## PARTICIPATION

- ❖ The number of participants is limited
- ❖ Last date for submission of forms is **July 20, 2019**
- ❖ Selected participants will be informed by July 24, 2019
- ❖ The non-refundable registration fee of selected participants for workshop is Rs. 5000/-. The fee is to be submitted in cash along with registration form at Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE)

## INFORMATION

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**THIRD DR. A.Q. KHAN  
SUMMER SCHOOL**

on

**Green Spin in Biotechnology**  
August 01 - 04, 2019



**Organized by**

**Dr. A. Q. Khan Institute  
of Biotechnology and Genetic  
Engineering (KIBGE)  
University of Karachi  
Karachi-75270**

## INTRODUCTION

Biotechnology is considered to be the technology of present century. Plant biotechnology aims to address major issues of national interest, such as pest disease control, salt and drought tolerance, crop yield quality, sustainability and environmental impact of crop production. Understanding *in vitro* culture strategies, genomics, proteomics and its integration with conventional agricultural practices would also enable the achievement of food security.

## RESOURCE PERSONS

### **Prof. Muhammad Ishaq**

United Medical & Dental College, Karachi

### **Prof. Shamshad Zarina**

National Centre for Proteomics, University of Karachi

### **Dr. H. Mujtaba Naqvi**

Former Director General , Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering, University of Karachi

## PARTICIPATION

This four-day practical course will be focused on molecular tools for researchers working in the area of molecular biology, biotechnology, botany, agriculture and related disciplines intending to better understand the role of biotechnology for the improvement in agriculture. Preference will be given to those who are working on related research projects.



## WORKSHOP HIGHLIGHTS

The workshop will include lectures and hands-on training in well-equipped laboratory facilities at KIBGE, including :

- DNA, RNA and Protein Extraction & Quantification
- Gel Electrophoresis
- Polymerase Chain Reaction (PCR)
- Plasmid Isolation and Cloning
- Agrobacterium-Mediated Transformation
- Electroporation and Heat-Shock Mediated Transformation
- SDS-PAGE
- Native -PAGE
- Western Blotting
- Plant Tissue Culture
- Micropropagation through Different Explants
- Hairy Root Culture for Secondary Metabolites