

REGISTRATION

Who should participate?

- MPhil/PhD students
- Faculty Members

Registration Fee

- For students: Rs. 4000/-
- For faculty: Rs.6000/-

Accommodation Charges

For faculty/students: Rs. 3000/-
Accommodation fee will be charged only if residence is required.

How to Apply?

The interested candidates are required to forward their nominations through their supervisors (for MPhil/PhD students) and head of department (for faculty) along with a

- a) Duly filled registration form
- b) A short CV (1-2 pages only)
- c) A passport size photograph

Where to send?

Please send complete application by post to Dr. Munir Ahmad, School of Biological Sciences, University of the Punjab, Quaid-e-Azam Campus, Lahore or e-mail at munir_pu@yahoo.com by Friday, 13th March, 2020.

Note

Limited seats are available. After intimation of successful selection from SBS, registration fee and accommodation charges mentioned above have to be submitted till Friday, 20th March, 2020 as per direction from SBS.

ORGANIZERS

Patron in Chief

Prof. Dr. Niaz Ahmad Akhtar
Vice Chancellor PU

Patron

Prof. Dr. Naeem Rashid
Acting Director General SBS

Advisory Committee

Prof. Dr. Javed Iqbal
Prof. Dr. M. Waheed Akhtar
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Dr. Muhammad Akhtar Ali
Dr. Saima Iftikhar
Dr. Munir Ahmad

For correspondence and information

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National Workshop on Recombinant DNA Technology (March 30-April 04, 2020)



**School of Biological Sciences,
University of the Punjab,
Lahore**

PREFACE

Molecular Biology and Genetic engineering have thousands of applications in biological, clinical, pharmaceutical, agricultural and industrial research. Some of the molecular techniques, for instance Recombinant DNA technology have become one of the most powerful tools in modern biology. The recombinant DNA is made by inserting foreign DNA fragment into a small replicating molecule such as a bacterial plasmid. This foreign DNA is then introduced into the competent bacterial cells which amplify the inserted fragment and make several copies of the insert known as a molecular clone. The primary aim of this workshop is to provide a comprehensive training on the recombinant DNA technology and to demonstrate fundamental hands on training in the essential skills of molecular biology.

The workshop has been designed for the beginners who have no previous experience with the techniques involved in the recombinant DNA technology. The young researchers and faculty members who are presently involved in teaching and research in the departments of Botany, Zoology, Biochemistry, Genetics, Microbiology, Molecular Biology, Biotechnology, Pharmacy and other allied fields in different universities, are encouraged to participate in this Workshop.

The workshop will comprise of lectures by the Peers, demonstrations and hands-on cloning and other essential molecular biology techniques.

PRACTICAL

- Use of micropipettes and calibration
- Preparation of growth medium/plates
- Basic microbiological procedures (streaking, culture inoculation and growing bacterial cells etc.)
- Genomic DNA isolation and quantification
- Gel Electrophoresis techniques
- Polymerase chain reaction (PCR)
- Purification of PCR product
- DNA Ligation and competent cells preparation
- Bacterial transformation
- Plasmid extraction and purification

VENUE AND TIMINGS

School of Biological Sciences, University of the Punjab, Quaid-e-Azam Campus, Lahore, 54590

March 30-April 04, 2020

08:30 am to 5:30 pm daily with a break of one hour for lunch and prayer

REGISTRATION FORM

Photograph

Name.....

Designation.....

Qualification.....

Department.....

Institution.....

E-mail:

Phone:

State how the workshop will benefit you in your work (please attach a separate sheet)

Accommodation required: YES / NO
(Please ✓ one of the options)

Recommendation from the Head of the institution