

HANDS-ON TRAINING WORKSHOP ON TECHNIQUES IN MOLECULAR BIOLOGY

6th – 10th NOVEMBER 2023

The “Omics” revolution focusing on researches in the field of genomics, proteomics, transcriptomics & metabolomics, has come to occupy the center stage of biological research. The increase in genomics and bioinformatic methods have revolutionized research in basic and applied biological fields. Whilst molecular techniques have evolved at a speedy rate over the last few decades, the underlying biochemical principles behind the vast majority of them has actually changed little. In this context a 5-day training programme on “ Techniques in Molecular Biology” is being organized from Nov 6-10, 2023, at Department of Botany, Royal School of Life Sciences, The Assam Royal Global University, Guwahati. This workshop combines opportunities to perform the basic molecular biology techniques, with particular attention to the principles underlying each technique.

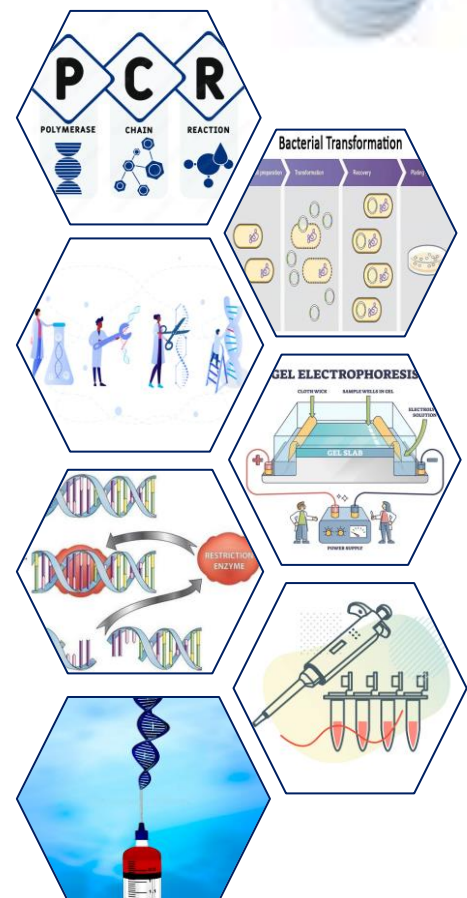
COURSE DESCRIPTION

The programme shall delve hands-on training by undertaking practical classes on various techniques in Molecular Biology.

The workshop is open for MSc and Research Scholars and the participants shall be charged a registration fee of Rs. 1000/-.

The techniques to be covered during the training shall include:

1. Preparation of competent cells
2. Genomic DNA isolation
3. PCR
4. Transformation of bacterial cell and screening of recombinants
5. Plasmid isolation and restriction digestion



LECTURES

- Introduction to PCR: History and latest developments
- Gene cloning methods and applications

PRACTICAL SESSIONS

- Primer designing
- Genomic DNA isolation, agarose gel electrophoresis
- PCR
- Preparation of competent cells
- Bacterial transformation, plasmid isolation and restriction digestion

COURSE LANGUAGE

All course notes and lectures will be in English.

Therefore, participants should have a good knowledge of English.

COURSE FEES

The workshop fees is **Rs. 1000/-**, to be paid in advance via the registration link:

Maximum student intake: 20
(first-come-first-serve), *MSc. students and Research Scholars*

VENUE

Department of Botany, RSLSC,
Block D, The Assam Royal Global
University, Betkuchi, Guwahati-
781035

ADDITIONAL INFORMATION

Participating students will have to carry their own lab coats

REGISTRATION LINK:



Scan QR Code

Last date for registration: 2nd NOVEMBER 2023