



Department of Neurochemistry
National Institute of Mental Health and
Neuro Sciences (NIMHANS)
Bangalore-29

2023

HANDS ON WORKSHOP

on

BASIC AND ADVANCED MOLECULAR BIOLOGY TECHNIQUES FOR ASPIRING RESEARCHERS



10- 12, April 2023

Hands on practical session

- Genomic DNA extraction from whole blood
- RNA extraction and cDNA conversion
- Nucleic acid and protein quantitation and quantification
- Polymerase Chain Reaction (PCR) (Conventional)
- Real Time PCR
- Gel electrophoresis (Agarose and SDS PAGE)

Lecture Topics

- DNA and RNA isolation, principles and applications
- Polymerase chain reaction: conventional and real-time
- Agarose gel electrophoresis
- SDS PAGE and gel staining methods
- Introduction to data analysis using software's
- Introduction to high throughput sequencing technologies

Purpose of the workshop

Biochemistry and Molecular Biology remains the most exciting branches of Bio-Sciences in the 21st Century, as it forms the basis of Biotechnology, with wide applications in modern science. Despite its importance, however, many students and researchers are still not well-versed in these techniques, probably because the techniques are typically too complex, time-consume, and expensive for individual laboratories. This hands-on workshop, therefore, aims to assist young research aspirants in India, to develop skills required for active research in the areas of Molecular Biology. It is open to all researchers, lecturers, professionals, and postgraduate students in all areas of Biological, Pharmaceutical Sciences, as well as Molecular Medicine.

Venue of the Work shop:

Department of Neurochemistry, 2nd Floor,
Admin block, NIMHANS, Bengaluru-29,
Karnataka

Who should attend this workshop?

Researchers, lecturers, professionals, and post-graduate students in all areas of Biological, Pharmaceutical Sciences, as well as Molecular Medicine

Maximum number of participants: 20

Registration details

Online registration is mandatory for all applicants and for online registration please visit

https://docs.google.com/forms/d/e/1FAIpQLSfoGjfuckAX32dMDp2deN3ToDQGzBJb3B_Ei35Xsd1gsZHmQA/viewform?usp=sf_link

Upon registration, the selected candidates will be requested to pay the registration fees

Payment mode and details will be shared via email to the selected candidates

Important Date

Last date for registration - 20th March 2023

Announcement of selected candidates through email – 21st March 2023

Last date for registration fees payment – 24th March 2023

Registration Fees

The registration fee for the workshop is Rs.3540/- (Rupees three thousand five hundred and forty only – including 18% GST). The registration fee covers the workshop participation, workshop kit, lunch, and refreshments for three days. Please note that fees paid will not be refundable under any circumstances and there is no spot payment

Accommodation

Limited in-house accommodation (Non-AC) will be provided only on sharing basis (2/3/6) at Kabini guest house subject to availability on a first come first serve basis. The tariff is fixed at Rs.300 per day per person and has to be paid at the guesthouse during check-in

Chief Patron

Prof. Pratima Murthy
Director

Patron

Prof. B.S. Shankaranarayana Rao
Registrar

Co-Patron

Prof. Bindu M. Kutty
Dean (Basic Sciences)

Chairperson

Prof. Nandakumar D N
HOD, Dept of Neurochemistry

Convenor

Dr. K. Gokulakrishnan
Associate Professor

Coordinators

Dr. Sandhya Narasimhan
Mr. Thirumoorthy C
Mr. Nikhil PJ

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