



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

# 2022

## HANDS ON WORKSHOP

in

### BASIC MOLECULAR BIOLOGY TECHNIQUES FOR ASPIRING RESEARCHERS



06- 08, April 2022

#### Hands on practical session

- Genomic DNA extraction
- Nucleic acid and protein quantitation and quantification
- Polymerase Chain Reaction (PCR) primer designing
- PCR (Conventional)
- Gel electrophoresis (Agarose and SDS PAGE)
- DNA Bisulfite Conversion

#### Lecture Topics

- Genomic DNA isolation, principles and applications
- Polymerase chain reaction
- SDS PAGE
- Bisulfite conversion
- Introduction to data analysis using software

#### Purpose of the workshop

Biochemistry and Molecular Biology remain the most exciting branches of Bio-Sciences in the 21<sup>st</sup> 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-consuming, 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, 2<sup>nd</sup> 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/1FAIpQLSdSi3kiRubcnAvsj24vy9V6Xp\\_JqWkAjMJLD87D2FTymUnmgw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdSi3kiRubcnAvsj24vy9V6Xp_JqWkAjMJLD87D2FTymUnmgw/viewform?usp=sf_link)

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

## Important Date

Last date for registration - 25<sup>th</sup> March 2022

Announcement of selected candidates through email - 26<sup>th</sup> March 2022

Last date for registration fees payment - 31<sup>st</sup> March 2022

## Registration Fees

The registration fee for the workshop is Rs.2950/- (Rupees two thousand nine hundred and fifty 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. No TA/DA will be provided.

## Mode of Payment

The registration fee must be paid through "Online- SBI" collect. More details on payment procedure will be send to the selected candidates only through email

## Accommodation

Limited in-house accommodation (Non-AC) will be provided at Kabini guest house at NIMHANS subject to availability on first come first serve basis. Tariff of the room is fixed at Rs.600 per day for single accommodation (Rs.300 /day per person for double sharing) and has to be paid at the guesthouse during check-in.

## Chief Patron

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Director, NIMHANS

## Patron

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Department of Neurochemistry, NIMHANS.

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HOD, Dept. of Neurochemistry,  
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Dept. of Neurochemistry,  
NIMHANS

## Coordinators

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