



## Training on “NMR - based Metabolomics”

27<sup>th</sup> – 31<sup>st</sup> January 2025

The CSIR-Center for Cellular and Molecular Biology is conducting a hands-on training on "NMR - based Metabolomics" targeted to faculty members/researchers from universities/institutes/industries and interested individuals in the field of Life Sciences, Medical Sciences, Pharmaceutical Science, Chemistry & allied areas. This training caters to individuals with varying levels of expertise, offering education and training in a range of NMR Spectroscopy and demonstrating its applications in Metabolomics. The program includes informative lectures, practical hands-on sessions, and in-depth instructions on data collection and analysis using High Field NMR Spectrometer.

<b>No. of seats</b>	: 10-12
<b>Minimum Qualification</b>	: Masters in any branch of life Science/Chemical Sciences/Allied areas
<b>Dates</b>	: 27 <sup>th</sup> – 31 <sup>st</sup> January 2025
<b>Mode of the Course</b>	: In-house training at CCMB
<b>Mode of selection</b>	: Application form & Statement of Purpose
<b>Course Fee</b>	: Rs. 18,000/- (Including GST and Accommodation)

### Training Curriculum:

Curriculum includes lectures and hands-on sessions on:

- Basics of NMR Spectroscopy
- Sample Preparation for Metabolomics
- Data Acquisition 1D and 2D NMR Experiments
- Data Processing and Analysis including Metabolites Identification and Quantification for all participants

### Salient Features of the Training:

- Expert instructors will provide lectures and hands-on training
- Certificate of participation will be issued to the participants
- Exposure to laboratory safety regulations
- One-to-one interaction with the trainers
- Evaluation assignments and Trouble-shooting sessions

**Apply using the link:** [http://recruitment.ccmb.res.in/training\\_programs/sdp/](http://recruitment.ccmb.res.in/training_programs/sdp/)

**Training Coordinator: Dr. Anant Bahadur Patel**

Chief Scientist, NMR Spectroscopy and Microimaging  
CSIR-CCMB, Hyderabad

**Contact details : Dr. Archana Bharadwaj Siva**

Nodal Scientist  
Skill Development Program  
CSIR-CCMB, Hyderabad  
[sdp@ccmb.res.in](mailto:sdp@ccmb.res.in)