



Topics

- Introduction of Mass Spectrometry and Proteomics
- Sample Preparation Strategies
- Interpretation, Analysis & Validation of Proteomics data

KEYNOTE SPEAKERS



Dr. Nirpendra Singh
Fellow E (Scientist D)
INSTEM, Bangalore



Dr. Shadab Ahmad
(Senior Scientist)
C-CAMP, Bangalore



Dr Chandrashakher
Application manager
AB Sciex, Gurugram

Date: 30th & 31st July, 2022

Venue: Mini Auditorium & LCMS/MS Lab, Era University

ORGANIZED BY :

**DEPARTMENT OF BIOTECHNOLOGY
ERA UNIVERSITY, LUCKNOW**

In Association with :



Era's Lucknow Medical College & Hospital, Era University, Lucknow

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TOPIC NOTE

Today, Liquid Chromatography with tandem Mass Spectrometry (LCMS/MS) is a powerful analytical technique that combines the separating power of liquid chromatography with the highly sensitive and selective mass analysis capability of triple quadrupole mass spectrometry. However, several analytical methods are available for the clinical analysis of various metabolites in human, LCMS/MS technique takes advantages over other because of improved precision and accuracy, better selectivity, high sensitivity and rapidity. Its selectivity and accuracy have made it a technique of choice for detecting microgram or even nanogram quantities of a variety of analytes ranging from proteins, disease biomarkers, drug metabolites, food adulterants, to natural product extracts. In recent times, clinical proteomics has emerged as key technology in biomedical research with aimed at developing a better understanding of disease pathology, via targeting of cell signaling along with design of new therapeutic leads and approaches for clinical treatment. The clinical proteomics hands-on workshop at Era University aims to uses of LCMS/MS (Installed in October 2020, AB Sciex 4500 Q-TRAP) and its applications that describe sample preparation strategies and data interpretation with various workflows for protein identification and analysis. Methods for quantitative analysis of proteins will be introduced. The workshop will provide hands-on experience for performing and analyzing clinical proteomic experiments, MS and MS/MS analysis, including quantification. The overall our goal is to train participants to identify new opportunities and applications for clinical proteomic approaches in their biomedical research.

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Tentative Programme

DAY 1

09:00-10:00	Registration & Tea	Cafeteria, Ground floor University Building
10:00-10:15	Welcome notes	Mini Auditorium, University Building
10:20-11:00	Lecture 1 by Dr. Chandrashekher	
11:00-11:40	Lecture 2 by Dr. Nirpendra Singh	
11:40-12:20	Lecture 3 by Dr. Shadab Ahmad	
12:20-12:30	Discussion	
12:30-1:00	Inauguration	
1:00-1:30	Lunch	
1:30-2:00	Demonstration	
2:00-6:00	Workshop on Sample preparation (In-gel and in-solution), digestion strategies & troubleshooting & Demonstration.	LCMS/MS lab, Hospital Building

DAY 2

09:30-10:00	Tea	Mini Auditorium, University Building
10:30-1:30	Workshop on data analysis for qualitative and quantitative proteomics.	LCMS/MS lab, Hospital Building
1:30-2:00	Lunch	
2:30-5:00	Workshop on data validation and Training on Protein library.	

REGISTRATION

- 👉 For Registration (**Free**) any query please contact to faheemkhan35@gmail.com before 29th July 2022.
- 👉 **Eligibility Criteria:** M.Sc., Ph.D, M.D. & Faculty are encouraged to apply.
- 👉 ***Total Seats: 25** for **LCMS/MS** demonstration and Lab visit.
- 👉 ***Candidate** will be shortlisted on the basis of academic qualification & previous experiences.
- 👉 **Fees:** 500/- (Welcome kit, Demonstration & Lunch).

REGISTRATION

the link given below or Scan QR CODE
<https://forms.gle/LsjcJxWmzphwANmR6>



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