



# **WORKSHOP & HANDS ON TRAINING**

**ON**

**“MATRIX-ASSISTED LASER DESORPTION IONIZATION-TIME OF FLIGHT MASS SPECTROMETRY (MALDI-TOF MS) IN CLINICAL MICROBIOLOGY”**

**&**

# **CME**

**ON**

**MALDI-TOF MS IN MICROBIAL DIAGNOSTICS**

**13<sup>TH</sup> NOVEMBER, 2019**

**Venue: Kalam Centre, KGMU, Lucknow, UP**



***Organized by:-***

**Department of Microbiology, King George's Medical University  
Lucknow, Uttar Pradesh**

# Welcome Message

## Greetings from KGMU!

It is our proud privilege and honour to extend very warm and cordial invitation to all of you on behalf of the organizing committee to join the Workshop & Hands on training on “Matrix-assisted laser desorption ionization-time of flight (MALDI-TOF MS) in Clinical Microbiology” and CME on “MALDI-TOF MS in Microbial Diagnostics”. Various international bodies and Government of India are initiating programs with aim to increase awareness to diagnose infections through modern tools for identification of pathogens and to encourage best practices among the health professionals and policy makers to avoid the further emergence and spread of antibiotic resistance.

The current technologies used in clinical microbiology to identify the pathogenic agents are time-consuming and frequently expensive. As a result, physicians prescribe empirical antimicrobial therapies. This scenario is often the cause of therapeutic failures, causing higher mortality rates and healthcare costs, as well as the emergence and spread of antibiotic resistant bacteria. As such, new technologies for rapid identification of pathogen testing are needed. Clinical microbiology laboratories have experienced revolutionary changes in the way in which microorganisms are identified, moving away from slow, traditional microbial identification algorithms toward rapid molecular methods and mass spectrometry. Today, MALDI-TOF MS is adapted for use in microbiology laboratories, where it serves as a paradigm-shifting, rapid, and robust method for accurate microbial identification.

In continuation of these efforts, we have planned to organize a CME with various eminent speakers to share their experiences and recent advances related to rapid microbial identification. It gives us immense pleasure to invite faculty members, residents and other members to interact with various speakers. The training and workshop using MALDI-TOF MS will enable participants for automated identification of microbes. The following aspects will be detailed: MALDI-TOF MS practical application, analysis and databases. This workshop combines a theoretical introduction and a practical demonstration. The participants will be given opportunity to manipulate the samples during the procedure.

Thanks & Regards

## Organizing Committee

Patron

**Prof. MLB Bhatt**

Hon'ble Vice Chancellor, KGMU

Organizing Chairperson

**Prof. Amita Jain**

Head, Department of Microbiology, KGMU

Co-Organizing Chairpersons

**Prof. Vimala Venkatesh**

Department of Microbiology, KGMU

**Prof. Gopa Banerjee**

Department of Microbiology, KGMU

Organizing Secretary

**Dr. Sheetal Verma**

Associate Professor, Department of Microbiology, KGMU

Organizing Co-Secretaries

**Prof. R. K. Kalyan**

Department of Microbiology, KGMU

**Prof. Prashant Gupta**

Department of Microbiology, KGMU

Logistic Partners  
BioMérieux, India

### WHO SHOULD ATTEND

Clinical Microbiologists, Faculty with interest in Clinical Microbiology/Infectious diseases, Postgraduate students, PhD, Research scholars and any interested member.

### HOW TO APPLY

Applicants should apply in the Registration Form attached with this brochure and send it to email: [dr.sheetal2001@gmail.com](mailto:dr.sheetal2001@gmail.com)

## Registration

- CME: No registration fee but registration is mandatory. Certificates will be provided to all the participants. Mail the scanned copy of duly filled registration form to [dr.sheetal2001@gmail.com](mailto:dr.sheetal2001@gmail.com) latest by 5<sup>th</sup> November, 2019.
- Workshop: The registration fee for the workshop is 2500 INR (Two thousand and five hundred only). Out station participants will have to make their own arrangements for the stay. Besides training material, candidates will be provided working lunch and mid-morning and afternoon tea. All interested participants can register themselves till **5<sup>th</sup> November, 2019**.
- No of participants for workshop- 30 candidates only (On first come first serve basis)  
Fee for the workshop should be submitted through Demand Draft issued by Nationalized Bank only, payable at Lucknow/NEFT/Bank transfer. DD/Cheque should be in favour of **"MICROBIOLOGY TRUST OF KGMU"** with enclosed registration details.

### Bank Details:

Account Name : MICROBIOLOGY TRUST OF KGMU

Account no. : 50476474830

IFSC Code : ALLA0211028

MICR Code : 226010013

Bank Name : ALLAHABAD BANK

Branch : KGMC BRANCH, LUCKNOW, UP

Contact at [dr.sheetal2001@gmail.com](mailto:dr.sheetal2001@gmail.com) or +91-9936269516 or +91- 9415754912 for any query.

## Registration Form

1. Name		
2. Gender		
3. Designation		
4. Organization		
5. Address		
6. Email ID		
7. Mobile No.		
<b>8. Payment details (Workshop)</b>		
Mode of Payment:		
Demand Draft <input type="checkbox"/>	Online-Banking <input type="checkbox"/>	Cash <input type="checkbox"/>
Demand Draft/Online Banking Transaction no. (UTR no.).....		
Dated: .....Drawn on:.....		
Rupees (In words).....		

Dated:

Signature

**Note:** Completed registration form should be sent to email: [dr.sheetal2001@gmail.com](mailto:dr.sheetal2001@gmail.com) latest by **5<sup>th</sup> November, 2019**.

**CME**  
**On**  
**MALDI-TOF MS IN MICROBIAL DIAGNOSTICS**  
**PROGRAM SCHEDULE**

**DATE:** Wednesday, 13<sup>th</sup> November, 2019

**VENUE:** Kalam Centre, KGMU, Lucknow

TIME	EVENT	
8:00-9:00 A.M.	Registration of participants	
9:00-9:05 A.M.	Welcoming Guests & Delegates	Dr. Sheetal Verma, Associate Professor Department of Microbiology, KGMU
09:05-9:10 A.M.	Chairperson's Opening Remarks	Prof. Amita Jain Head, Department of Microbiology, KGMU, Lucknow
9:10-9:20 A.M.	Address by Hon'ble Chief Guest	Prof. MLB Bhatt Hon'ble Vice Chancellor, KGMU, Lucknow
9:20-9:25 A.M.	Vote of Thanks	Prof. Vimala Venkatesh Department of Microbiology, KGMU, Lucknow
TEA BREAK		
Time	Topic	Speaker
9:30-10:00 A.M.	Introduction to MALDI-TOF MS	Prof. Vimala Venkatesh Department of Microbiology, KGMU, Lucknow
10:00-10:30A.M.	MALDI-TOF Mass Spectrometry in Clinical Microbiology	Mr. Meer Ali Training Manager, BioMérieux India
10:30-11:00 A.M.	Modern Tools for Diagnosis of Bacterial Infections -An Update with emphasis on MALDI-TOF-MS	Dr. Sheetal Verma Associate Professor Department of Microbiology, KGMU, Lucknow
11:00-11:30 A.M.	Role of MALDI -TOF-MS in Clinical Mycology Laboratory	Prof. Prashant Gupta Department of Microbiology, KGMU
11:30-12:00 P.M.	Identification of Mycobacterium Species by MALDI-TOF Mass Spectrometry	Prof. R. K. Kalyan Department of Microbiology, KGMU, Lucknow
LUNCH		

**WORKSHOP & HANDS ON TRAINING**  
**MALDI-TOF MASS SPECTROMETRY (MALDI-TOF-MS) IN CLINICAL MICROBIOLOGY**

**DATE:** Wednesday, 13<sup>th</sup> November, 2019

**VENUE:** Kalam Centre, KGMU, Lucknow

**TIME: 1:00-5:00 P.M.**

**Highlights**

- Pre- Assessment
- Basic Introduction
- Sample Handling
- Turn Around Time
- Hands on Session on MALDI-TOF MS
- Post-Assessment
- Feedback

