Contact

Target Audience

Microbiologists, basic researchers, biologists, medical doctors and laboratory personnel

Faculty Members

Jean Armengaud, Paris, France Ana Candela, Madrid, Spain Elena DeCarolis, Rome, Italy Lucia Grenga, Madrid, Spain Didier Hocquet, Besançon, France Hugo López Fernández, Vigo, Spain James O'Connor, Cork, Ireland Marina Oviaño, Coruña, Spain Belen Rodriguez-Sanchez, Madrid, Spain David Rodriguez-Temporal, Hospitalet de Llobregat, Spain Jean-Marc Rolain, Marseilles, France Linda Veloo, Groningen, The Netherlands Stefan Zimmerman, Heidelberg, Germany Estreya Zvezdanova, Madrid, Spain

For the Scientific Programme

Belen Rodriguez-Sanchez Hospital General Universitario Gregorio Marañón Doctor Esquerdo, 46 28007 Madrid, Spain

Phone +34 914269595 mbelen.rodriguez@iisgm.com

Administrative Secretariat

David Rodriguez-Temporal Hospital General Universitario Gregorio Marañón Doctor Esquerdo, 46 28007 Madrid, Spain

Phone +34 914265184 maldi.marannon@gmail.com









ESCMID EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES



ESCMID Postgraduate **Technical Workshop**

ESCMID Postgraduate Technical Workshop

Applications of MALDI-TOF Mass-Spectrometry in Clinical Microbiology

Online Education Course 19 - 20 October 2021



Course Coordinators Belén Rodríguez-Sánchez, Madrid, Spain

Course Objectives

This course aims to provide participants with the tools to do their best with their MALDI instruments: methodology for new MALDI applications and analytical tools for spectra analysis. The attendees will have the opportunity to interact with leading researchers in the field of MALDI-TOF massspectrometry applications in clinical microbiology and discuss recent breakthroughs and new applications. The workshop will include theoretical presentations and practical training, and will represent an excellent chance for networking between clinical microbiologists, basic researchers, MALDI experts, bioinformaticians and others.

Applications of MALDI-TOF Mass-Spectrometry in Clinical Microbiology

Organisers

ESCMID Study Group for Molecular Diagnostics (ESGMD)

Other Organising Groups

Department of Clinical Microbiology, Hospital Gregorio Marañón, Madrid

Course Programme

Tuesday 19 October 2021

Session 1

- 09:30 Welcome and introduction to the Course Belén Rodriguez-Sanchez
 09:45 New (and old) applications of MALDI-TOF in Out in the second second
- Clinical Microbiology Belén Rodriguez-Sanchez 10:30 Mass Spectrometry for virus detection and
- characterisation Lucia Grenga
- 11:15 Coffee break

Session 2

- 11:30 MALDI-TOF for the identification of anaerobes *Linda Veloo*
- 12:00 Identification of filamentous fungi and yeasts with MALDI-TOF *Elena De Carolis*
- 12:30 Identification of mycobacteria isolates with MALDI-TOF James O'Connor

13:00 Lunch

Practical Session 1

- 14:00 Analysis of aerobic and anaerobic bacteria Belen Rodriguez-Sanchez, Ana Candela
- 14:30 Analysis of mycobacteria David Rodríguez-Temporal
- 15:00 Coffee break

Practical Session 2

15:15	Analysis of fungi
	Estreya Zvezdanova, Belén Rodríguez-Sánchez

- 15:45 Questions and Answers
- 16:30 End of day

Wednesday 20 October 2021

09:15 Welcome

Session 3

- 09:30 Detection of antibiotic resistance mechanisms with MALDI-TOF: Review and future applications *Marina Oviaño*
- 10:15 Application of MALDI-TOF for bacterial typing *Didier Hocquet*
- 11:00 Coffee break

Session 4

- 11:30 Dealing with protein spectra from MALDI-TOF: how to analyze them Hugo López Fernández
- 12:00 Mass Spectrometry: new diagnostic tools for the near future Jean Armengaud
- 12:30 Application of IR spectroscopy for bacterial typing Stefan Zimmerman

13:00 Lunch

Practical Session 3

14:00 Detection of antibiotic resistance mechanisms. Belen Rodriguez-Sanchez, Marina Oviaño
14:30 Spectra analysis: comparison of populations and typing Hugo López Fernández

15:00 Questions and answers

End of day and farewell

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Organization

Registration Procedure

Register on the ESCMID website at www.escmid.org/education by 16 October, 2021.

Registration fee

EUR 80 for ESCMID members EUR 150 for all others

Online Access

Links for online access will be provided to registrants prior to the commencement of the course.

The programme is specified in Central European Summer Time (CEST)