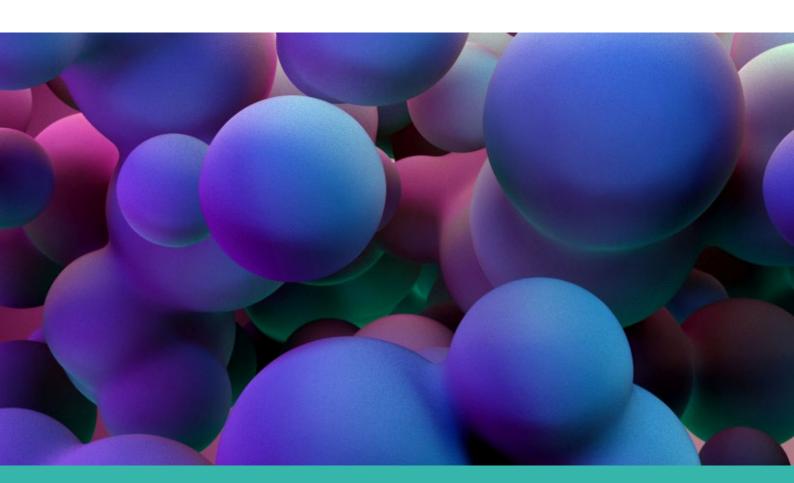


Postgraduate course Programme

Implementation of New Rapid Diagnostic and Antimicrobial Susceptibility Testing Methods for Bloodstream Infections

Istanbul, Türkiye 15 – 17 October 2025





Istanbul, Türkiye

Faculty Members

Switzerland	Adrian Egli
Spain	Antonio Oliver
Türkiye	Bahar Madran
France	Brigitte Lamy
Germany	Cansu Çimen Van Dijck
Türkiye	Cansel Vatansever
Sweden	Erika Matuschek
Türkiye	Füsun Can
Türkiye	K. Erhan Palaoğlu
Switzerland	Laurent Poirel
Türkiye	Meltem Kaya Ayaş
Türkiye	Murat Akova
Sweden	Onur Karatuna
Türkiye	Önder Ergönül
United Kingdom	Riina Rautemaa-Richardson
Türkiye	Serap Şimşek Yavuz
Türkiye	H. Selçuk Özger
Greece	Spyros Pournaras
Türkiye	Şiran Keske
France	Thierry Naas
Türkiye	Yeşim Beşli



Istanbul, Türkiye

Day 1	Wednesday, 15 October 2025
08:00 – 08:15	Registration and short breakfast
08:15 – 08:30	Welcome and presentation of the course Yeşim Beşli and Önder Ergönül
Basic concepts Chair: Brigitte La	and epidemiology of bloodstream infections my
08:30 - 09:00	Current epidemiology and burden of bloodstream infections Serap Şimşek Yavuz
09:00 – 09:30	Changing landscape of invasive fungal infections Riina Rautemaa-Richardson
09:30 – 10:00	Definition of sepsis and usage of biomarkers Selçuk Özger
10:00 – 10:30	Break
Diagnosis and m Chair: K. Erhan P	nanagement of sepsis: current practice and future directions alaoğlu
10:30 – 11:00	Optimization of blood culture strategy <i>Brigitte Lamy</i>
11:00 – 11:30	How to introduce new laboratory tests in the diagnosis of bloodstream infections: Definition of the case to be tested, evaluation of the new technology against the gold standard, debate Spyros Pournaras
11:30 – 12:00	Use of bioinformatics and machine learning in diagnosis and treatment of sepsis Adrian Egli
12:00 – 12:30	How to use rapid microbiological tests in bloodstream infections from the perspective of diagnostic stewardship, antimicrobial stewardship and infection control Şiran Keske
12:30 – 13:30	Lunch
Parallel worksh	op: best practices across the blood culture pathway
13:30 – 15:00	Participants will be divided into three groups and rotate through the stations below (30 min/station)
	Demonstration of proper technique for blood culture collection <i>Bahar Madran</i>
_	Indicators of good blood culture practices Brigitte Lamy and Yeşim Beşli
	Antimicrobial susceptibility testing - for which positive blood cultures? Şiran Keske and Onur Karatuna
15:00 – 15:30	Break



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Current approaches in antimicrobial susceptibility testing and detection of resistance Chair: Antonio Oliver

15:30 – 16:00	Value of MALDI-TOF MS in rapid antimicrobial susceptibility testing Adrian Egli
16:00 – 16:30	EUCAST rapid antimicrobial susceptibility testing (RAST) Erika Matuschek
16:30 – 17:00	Phenotypic antimicrobial susceptibility testing versus molecular drug resistance testing Laurent Poirel
17:00 – 17:30	Strengths and weaknesses of current antimicrobial susceptibility testing methods and challenges in rapid antimicrobial susceptibility testing Onur Karatuna
17:30 – 17:45	Summary and debrief

Day 2 Thursday, 16 October 2025

Technical Workshop: Hands-on training on rapid identification and AST methods (Part 1)

08:30 – 10:45	Participants will be divided into three groups and rotate through the stations below (45 min/station)
	Rapid bacterial identification directly from positive blood culture bottles using MALDI-TOF MS Adrian Egli and Meltem Kaya Ayaş
_	Use of lateral flow immunochromatographic assay (LFIA) in detection of key resistance mechanisms Thierry Naas and Yeşim Beşli
	EUCAST rapid AST (RAST) directly from positive blood culture bottles Onur Karatuna
10:45 – 11:15	Break
Understanding	antimicrohial resistance as a first stan in treatment of sensis

Understanding antimicrobial resistance as a first step in treatment of sepsis

Chair: Laurent Poirel

11:15 – 11:45	Genetic diversity and biochemical properties of carbapenemases in Enterobacterales Thierry Naas
11:45 – 12:15	Pseudomonas aeruginosa antibiotic susceptibility profiles, genomic epidemiology, and resistance mechanisms Antonio Oliver
12:30 – 13:30	Lunch
13:30 – 14:00	Epidemiology and resistance mechanisms in Acinetobacter baumannii Thierry Naas



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14:00 – 14:30	Understanding resistance in <i>Enterococcus</i> spp. Cansu Çimen Van Dijck
Technical Work	cshop: Hands-on training on rapid identification and AST methods (Part 2)
14:30 – 16:45	Participants will be divided into three groups and rotate through the stations below (45 min/station)
	Reading zone diameters of EUCAST rapid AST (RAST) plates after 6-8 hour incubation
	Onur Karatuna and Meltem Kaya Ayaş
	Rapid phenotypic AST using automated systems Yeşim Beşli
_	Application of molecular diagnostics for bacteraemia Cansel Vatansever
16:45 – 17:00	Summary and Debrief
19:00 – 21:00	Social Dinner

Day 3 Friday, 17 October 2025

Technical Workshop: Hands-on training on rapid identification and AST methods (Part 3)

08:30 - 10:00	Participants will be divided into three groups and rotate through the stations
	below (30 min/station)

Reading zone diameters of EUCAST RAST plates after 16-20 h incubation and interpretation of results

Onur Karatuna

Interpretation of results of screening tests for detection of resistance mechanisms using RAST and rapid tests

Yeşim Beşli

Interpretation of phenotypic and genotypic test results together - implications for patient management

Laurent Poirel

10:00 - 10:30 **Break**

Treatment of sepsis in the era of antimicrobial resistance

Chair: Murat Akova

10:30 – 11:00	Changing epidemiology of antimicrobial resistance in bacterial bloodstream infections Füsun Can
11:00 – 11:30	Emerging threat of antifungal resistance Riina Rautemaa-Richardson



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17:15 - 17:45

17:45 - 18:00

Onur Karatuna

Concluding remarks and farewell Önder Ergönül and Yeşim Beşli

11:30 – 12:00 Last line therapeutic choices in drug resistant bacteria Onder Ergönüt 12:00 – 12:30 Review of current guidelines and challenges in treatment of sepsis Murat Akova 12:30 – 13:30 Lunch Case-based workshop: Selecting the right antimicrobial treatment options in management of sepsis 13:30 – 15:00 Participants will be divided into three groups and rotate through the stations below (30 min/station) Case study: management of sepsis in a setting with high levels of antimicrobial resistance Siran Keske Case study: management of sepsis in a setting with low levels of antimicrobial resistance H. Selçuk Özger Case study: interpretation of antifungal susceptibility test results Riina Rautemaa-Richardson Roundtable: how to bring phenotypic and molecular methods together to set up a comprehensive diagnostic workflow for bloodstream infections? Chair: Spyros Pournaras 15:00 – 15:45 Interactive roundtable Füsun Can, Murat Akova and Şiran Keske 15:45 – 16:15 Break Laboratory results shaping patient management Chair: Füsun Can 16:15 – 16:45 Evaluation of blood culture results – how to separate true causes of sepsis from contaminants Yeşim Beşli Implementation of EUCAST RAST in routine workflow: lessons learnt Erika Matuschek	11:30 – 12:00	
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What do to when there are no clinical breakpoints in the EUCAST table?



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