

Postgraduate course Programme

2nd Hands on Workshop on Pseudomonas Aeruginosa Resistance Phenotypes and Whole Genome Sequence Resistome Analysis

Palma de Mallorca, Spain
1 – 5 September 2025



**2nd Hands on Workshop on Pseudomonas Aeruginosa
Resistance Phenotypes and Whole Genome Sequence
Resistome Analysis**

Palma de Mallorca, Spain



Faculty Members

Palma, Spain	Antonio Oliver
Zagreb, Croatia	Arjana Tambic
Palma, Spain	Carla López Causapé
Palma, Spain	Carlos Juan
Stockholm, Sweden	Christian Giske
Palma, Spain	Estrella Rojo Molinero
A Coruña, Spain	Jorge Arca
Besancon, France	Katy Jeannot
Fribourg, Switzerland	Laurent Poirel
Palma, Spain	Marian Gomis Font
Solna, Sweden	Pete Kinross
Madrid, Spain	Rafael Cantón
Palma, Spain	Sara Cortés Lara
Athens, Greece	Spyros Pournaras
Paris, France	Thierry Naas
Palma, Spain	Tomeu Moyà
Palma, Spain	Xavier Mulet

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Day 1 Monday, 1 September 2025

08:30 – 09:30	Registration, welcome, objectives and workshop overview C. López-Causapé, E. Rojo-Molinero, A. Oliver
09:30 – 10:30	EUCAST SIR definitions and breakpoints. Implications for the treatment of <i>P. aeruginosa</i> infections Christian Giske
10:30 – 11:00	Break
11:00 – 13:30	Laboratory Session. Susceptibility testing and phenotypic complementary tests E. Rojo-Molinero, X. Mulet, J. Arca, A. Oliver
13:30 – 14:30	Lunch
14:30 – 16:30	Laboratory Session. WGS Library preparation C. López-Causapé, MA Gomis-Font, S. Cortés-Lara
16:30 – 17:30	Genomic Resistance Surveillance in Europe Pete Kinross

Day 2 Tuesday, 2 September 2025

08:30 – 09:30	Mechanisms of resistance to novel β-lactams in <i>P. aeruginosa</i> Antonio Oliver
09:30 – 10:00	Break
10:00 – 13:30	Laboratory Session. Susceptibility testing, phenotypic and molecular tests E. Rojo-Molinero, X. Mulet, J. Arca, A. Oliver
13:30 – 14:30	Lunch
14:30 – 15:30	Laboratory Session. WGS Library preparation C. López-Causapé, MA Gomis-Font, S. Cortés-Lara
15:30 – 16:30	Insights into biochemical characterization of β-lactamases Jorge Arca
16:30 – 17:30	Regulation of resistance mechanisms expression in <i>P. aeruginosa</i> Katy Jeannot

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Day 3 Wednesday, 3 September 2025

08:30 – 09:30 **Epidemiology of MDR pathogens in Europe**
Arjana Tambic

09:30 – 10:00 **Break**

10:00 – 13:30 **Laboratory Session.**
WGS Library Preparation
C. López-Causapé, MA Gomis-Font, S. Cortés-Lara

13:30 – 14:30 **Lunch**

14:30 – 15:30 **Laboratory Session.**
WGS DNA sequencing
C. López-Causapé, MA Gomis-Font, S. Cortés-Lara

15:30 – 16:30 **Insights into the characterization of Penicillin Binding Proteins**
Tomeu Moyà

16:30 – 17:30 **Whole genome sequence resistome analysis**
Carla López-Causapé

Day 4 Thursday, 4 September 2025

08:30 – 09:30 **Detection of resistance mechanisms in the clinical microbiology
laboratory**
Thierry Naas

09:30 – 10:00 **Break**

10:00 – 13:30 **Laboratory Session.**
WGS Bioinformatics
C. López-Causapé, MA Gomis-Font, S. Cortés-Lara

13:30 – 14:30 **Lunch**

14:30 – 15:30 **Laboratory Session.**
WGS Bioinformatics
C. López-Causapé, MA Gomis-Font, S. Cortés-Lara

15:30 – 16:30 **Assessing *P. aeruginosa* virulence**
Carlos Juan

16:30 – 17:30 **Antimicrobial resistance in cystic fibrosis chronic respiratory infections**
Rafael Cantón

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Day 5 **Friday, 5 September 2025**

08:30 – 09:30 **Role of heteroresistance in Gram negative pathogens**
Spyros Pournaras

09:30 – 10:30 **Diversity and prevalence of acquired carbapenemases in *P. aeruginosa***
Laurent Poirel

10:30 – 11:00 **Break**

11:00 – 13:00 **Laboratory Session.**
Integrated final analysis and discussion of results
Antonio Oliver

13:30 – 14:30 **Lunch and farewell**

Programme

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Organisers



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Sponsors and supporters

JPIAMR “Improving surveillance of antibiotic-resistant *Pseudomonas aeruginosa* in Europe (ISARPAE)” (AC22/00032)

Centro de Investigación Biomédica en Red - Enfermedades Infecciosas (CIBERINFEC),
Instituto de Salud Carlos III

Grupo de Estudio de los Mecanismos de Acción y de la Resistencia a los Antimicrobianos (GEMARA) de la Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica (SEIMC)



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