



EUROPEAN COMMISSION
RESEARCH EXECUTIVE AGENCY

Marie Skłodowska-Curie Individual Fellowships: European

Cluster event

"The fundamental contribution of MSCA Individual Fellowships to the EU Action Plan against Antimicrobial Resistance"

26 - 27 June 2019

INSTITUT DE BIOENGINYERIA DE CATALUNYA (IBEC)

Room Baobab, Tower I, floor 11

c/ Baldiri Reixac 4-8, 08028 Barcelona, Spain

Wednesday 26 June

09:15-09:30 **Registration (disclaimer confidentiality)**

09:30-09:40 Welcome and introduction to the meeting (Gaetano Castaldo-REA)

09:40-09:50 Introduction to IBEC (Prof Josep Samitier-IBEC)

09:50-10:20 Presentation **Scientific Monitoring and Innovation Radar** (Dr António Ornelas-Soares-independent expert)

10:20-10:40 Coffee/tea break

Project presentation and discussion

10:40-11:10 **SaRNAREg** "Staphylococcus aureus sRNA targetomes and regulatory networks involved in fast adaptive responses: structure, mechanisms and dynamics" (Dr David Lalaouna)

11:10-11:40 **ENVIROSTOME** "Exploring the contribution of bacteriophages to the emergence and spread of antibiotic resistance in environmental settings" (Dr Ana Carolina Maganha de Almeida)

11:40-12:10 **ROPHARE** "Insights into the role of phages on the bacterial resistome" (Dr Elena Gomez Sanz)

12:10-12:40 **SHARE_WW** "Spatial organization and Horizontal gene transfer of Antibiotic Resistance by ESBL in WasteWater" (Dr Ana Silva)

12:40-14:45 Lunch break

14:45-15:00 **MSCA IF management** (Sandrine Jacobs/ Bronius Goossens-REA)

Project presentation and discussion

15:00-15:30 **PHANTOM** "Phenotypic screening the host antimicrobial responses towards the eradication of Mycobacterium tuberculosis" (Dr Loris Rizzello)

15:30-16:00 **Vanrestrep** "Vancomycin resistance regulation in the antibiotic-producers streptomycetes" (Dr Fernando Santos Benei)

16:00-16:20 Coffee/tea break

16:20-16:50 **ProphARG** "Evolution of Prophages that carry Antibiotic Resistance Genes (ARGs) and their host-bacteria in response to antibiotics and increased lytic activity" (Dr Carolin Wendling)

16:50-17:20 **ResistEpist** “Dissection of the mechanisms causing the epistasis between antibiotic resistance mutations in Escherichia coli” (Dr Roberto Balbontin Soria)

17:20-18:30 Parallel sessions Innovation Radar (SaRNAReg, ENVIROSTOME, ROPHARE, PHANTOM and Vanrestrep)/ Monitoring (SaRNAReg, ENVIROSTOME, ROPHARE, PHANTOM, Vanrestrep, ProphARG, ResistEpist, SHARE_WW)

Thursday 27 June

09:20-09:30 Introduction (Kaisa Hellevo- REA)

09:30-10:00 Presentation “**EU Action Plan against Antimicrobial Resistance**” (Charles Price- European Commission DG SANTE) (teleconference)

10:00-10:30 Presentation “**Moving research talent forward**” (Stijn Delaure-European Commission DG EAC) (teleconference)

Project presentation and discussion

10:30-11:00 **qMAR** “Quantification of the intestinal load of a targeted set of resistance genes to Monitor Antibiotic Resistance in paediatric transplant patients” (Dr Elias Dahdouh)

11:00-11:30 **DiPaC_MC** “Direct Pathway Cloning of Neglected Bacteria in the Hunt for Novel (Bio-) Chemistry” (Dr Paul D'Agostino)

11:30-11:50 Coffee/tea break

Project presentation and discussion

11:50-12:20 **FIMBUG** “Heterogeneity in fimbrial length and abundance as a generic regulator of E. coli surface colonization” (Dr Anders Lundgren)

12:20-12:50 Presentation “**Creating novel solutions that make healthy lives a reality for all**” (Irene Sánchez-EIT Health)

12:50-14:30 Lunch break

Project presentation and discussion

14:30-15:00 **SARCOM** “Selection for antimicrobial resistance in a complex community context” (Dr Uli Klümper)

15:00-15:30 **Targeting TopoII** “Mechanistic studies of metal-dependent DNA cleavage in Type II topoisomerase toward therational design of novel anticancer drugs” (Dr Jissy Kuriappan)

15:30-16:00 **BLMs 4 TB** “Beta-lactams for Tuberculosis Treatment” (Dr Santiago Ramon Garcia)

16:00-16:30 Presentation “**Artificial Intelligence tackling AMR: assisting clinicians to make better informed decisions**” (Dr Cristina Correia-AbTrace) (teleconference)

16:30 -16:50 Coffee/tea break

16:50-18:00 Parallel sessions Innovation Radar (qMAR, FIMBUG and BLMs 4 TB) and Monitoring (qMAR, FIMBUG, Targeting TopoII, SARCOM and BLMs 4 TB)

18:00-18:30 General discussion

----- **End of meeting** -----

* Parallel informal meeting sessions between the fellows and the Project Officer can take place during the meeting