ORDRA-2023

« Development of a Tool for Research and Diagnosis of Antibiotic Resistance »

SCIENTIFIC PROGRAM

- Day 1: May 22nd, 2023

Olivier Siri, Michel Camplo and Jean Michel Bolla: Introduction

Paolo Ruggerone, Univ of Cagliari: « Bacterial Efflux Systems: A Computational Journey »

Olivier Siri, CINaM Marseille: « 053 and Other Modified Indulines: From Dyestuffs to Biology »

Marlène Martinho, BIP, Marseille: « Site-Directed Spin Labelling and EPR for structural biology study of BmrA »

Yann Denis, IMM-CNRS Marseille: “"Transcriptome analyses: solutions proposed by the transcriptomic platform of the Institut de Microbiologie de la Méditerranée"

Mrunal Patil, MCT Marseille: “How to diagnoses efflux of antibiotics in bacteria. Phenazinium compound 053 a suit tool for efflux diagnostic in Gram positives”

Gael Brasseur, LCB Marseille: “Transport of fluorescent molecule 053 in Gram+ *S. aureus* and Gram- bacteria followed by flow cytometry.”

Gilles Phan, CiTCoM Paris: "MexB interaction with DC053 : preliminary results from crystallography and microscale thermophoresis"

Marine Novelli, MCT Marseille: “Tripartite Efflux pumps reconstitution in vitro to study transport kinetics, selectivity, energy dependence.”

Jean-Michel Jault, IBCP Lyon: "Multidrug bacterial ABC transporter and structural asymmetry in the Nucleotide-Binding Domain"

Cédric Orelle, IBCP Lyon: "The functioning mechanism of BmrA: an archetypical multidrug ABC transporter from bacteria"

Attilio Vargiu, Univ of Cagliari: "Investigating the interaction of teranostic compounds with efflux pumps of Gram-positive and Gram-negative bacteria."

Aurélien Pasturel, Idylle-Labs: How to convert research discovery to commercial kits: Could 053 be bankable?

Olivier Siri Michel Camplo and Jean Michel Bolla: Conclusions of the day.

- Day 2: May 23rd, 2023

All participants: round table on prospects: renewal of the workshop, articles, patents, grant applications, financial supports from companies and/or SATT, planning.