



UNIVERSITÀ  
DI PARMA

DIPARTIMENTO DI SCIENZE  
DEGLI ALIMENTI E DEL FARMACO



# OUTREACH FINAL Conference

## ITN MSCA "INTEGRATE"

Interdisciplinary Training Network for Validation of  
Gram-Negative Antibacterial Targets

# "FIGHTING ESKAPE, THE BAD GANG"

November 21-23, 2018

Congress Center - Plesso Aula delle Scienze

Parco Area delle Scienze – Campus Universitario, Parma (Italy)

### **November 21**

15:00-15:45 REGISTRATION

15:45-16:00 Welcome

16:00-16:30 Jerry Reen, College of Cork, Ireland "*Mining polycellular interactomes for pathogen control*"

16:30-17:00 Giuseppe Zanotti, University of Padova, Padova, Italy "*From X-ray to Cryo-EM to unveil bacteria machinery*"

17:00-17:30 COFFEE BREAK

17:30-18:00 Claudia Folli, University of Parma, Parma, Italy "*Toxin-antitoxin systems: a target for new antimicrobial agents?*"

18:00-18:30 Emanuela Frangipani, University of Rome3, Rome, Italy "*Antimicrobial Activity of Gallium Compounds on ESKAPE Pathogens*"

### **November 22**

Early Stage Researchers of ITN Marie Skłodowska-Curie "INTEGRATE"

9:30-10:00 Carlos Moreno-Cinos, University of Antwerpen, Antwerpen, Belgium "*Design, synthesis and characterization of novel inhibitors of Escherichia coli ClpP protease*"

10:00-10:30 Elisa Sassetti, Fraunhofer-IME, Hamburg, Germany "*Identification and Profiling of Bacterial Caseinolytic Protease Inhibitors as Potential Novel Antibiotics*"

10:30-11:00 Joana Magalhães, University of Parma, Parma, Italy "*Design, synthesis and optimization of inhibitors of enzymes involved in the sulfur assimilation pathway in Gram negative bacteria*"

11:00-11:30 COFFEE BREAK

11:30-12:00 Konstantinos Grammatoglou, Latvian Institute of Organic Synthesis, Riga, Latvia "*Design and synthesis of O-acetylserine sulphydrylase inhibitors as potential antibacterials*"

12:00-12:30 Nina Franko, University of Parma, Parma Italy "*Inhibition of cysteine biosynthesis for the development of enhancers of antibiotic therapy*"

12:30-14:00 LUNCH

14:00-14:30 Vanesa Garrido, APTUIT/EVOTEC, Verona, Italy "*Experimental strategy for the identification and characterization of novel inhibitors of alkylquinolone-dependent quorum sensing regulator in Pseudomonas aeruginosa, a promising antibacterial target*"

14:30-15:00 Silvia Stotani, Taros, Dortmund, Germany "*Design and synthesis of LsrK kinase inhibitors as quorum sensing modulators*"

15:00-15:30 Viviana Gatta, University of Helsinki, Helsinki, Finland "*Targeting quorum sensing: a new screening approach to discover LsrK inhibitors*"

15:30-16:00 Michaela Barancokova, University of Ljubljana, Ljubljana, Slovenia "*Design, synthesis and evaluation of novel DNA gyrase B inhibitors with antibacterial activity*"

16:00-16:30 COFFEE BREAK

16:30-17:00 Alyssa McVey, University of Cambridge, Cambridge, United Kingdom "*The glyoxylate shunt as a target for antibacterial intervention in Pseudomonas aeruginosa*"

17:00-17:30 Medarametla Prasanthi, University of Eastern Finland, Kuopio, Finland "*Computational approaches in identification of novel antibacterial agents*"

17:30-18:00 Round Table Discussion

### **November 23**

9:30-10:00 Claudiu Supuran, University of Florence, Florence, Italy "*The antibiotic arsenal and beyond*"

10:00-10:30 Martin Welch, University of Cambridge, Cambridge, UK "*A three pipe problem; a tour through gene essentiality, the fallacy of "resistance-proof drugs", and fun with fatty acids.*"

10:30-11:00 Brice Felden, University of Rennes, Rennes, France "*Functions and mechanisms of small RNAs in bacteria: an unexpected source for new antibiotics*"

11:00-11:30 COFFEE BREAK

11:30-12:00 Francesca Spyarakis, University of Turin, Turin, Italy "*Computational methods for antibiotic discovery*"

12:00-12:30 Gianluca Sbardella University of Salerno, Salerno, Italy "*The IMI Iniziative for antibiotics discovery*"

12:30-12:45 Gabriele Costantino, University of Parma, Parma, Italy "*Closing remarks*"

12:45-13:30 LIGHT LUNCH

**Practical info:** No registration fee is required to attend the conference. However, an email to SARA ZAMBERNARDI sara.zambernardi@studenti.unipr.it is strictly requested before November 19. Acceptance is on "first come, first served basis".