



12° PhD Workshop

17-18 July 2018, Polo Didattico Aule Navile, Via della Beverara 123/1, Bologna

Organizers: V Scarlato, D Roncarati, S Strocchi, D Ghezzi

TUESDAY, JULY 17, 2018; AULA MAGNA

Chair: Simona Pepe

- 14:00 **Filippo Moramarco** (31, Scarlato/Balducci): BP1253, a phosphoribohydrolase enzyme in *Bordetella pertussis*
- 14:20 **Tarcisio Bignoli** (31, Scarlato/Delany): Staphylococcal protein A expression and its interplays with other virulence factors
- 14:40 **Daniele Ghezzi** (32, Zannoni): The pristine Imawari Yeuta cave (Venezuela): microbial diversity and biotechnological applications

Chair: Tarcisio Bignoli

- 15:00 **Houda Abl** (33, Porcelli): Investigating aKG in preventing cancer cells metabolic adaptation in tumorigenesis: a proof of concept in cancer models
- 15:20 **Paolo Pigni** (31, Perini): Functional analysis of neuroblastoma oncogenic drivers for discovery and development of targeted therapies
- 15:40 **Giulia Leone** (31, Porcelli): Induction of pseudonormoxia as adjuvant therapeutic strategy for cancer

16:00 - 16:30 break!

Chair: Filippo Moramarco & Ana Borrachero

- 16:30 **Paolo Emidio Costantini** (33, Zannoni): Genotypic and phenotypic characterization of *Lactobacillus* strains with antipathogenic activities
- 16:50 **Anna Galea** (32, Scarlato/Norais): Development of new analytical tools for characterization of bioconjugate vaccines regulation and synthesis in *E. coli*
- 17:10 **Simona Pepe** (31, Scarlato/Roncarati): The *Helicobacter pylori* heat-shock repressor HspR: definition of its direct regulon and characterization of the cooperative mechanism on its own promoter
- 17:30 **Claudio Patavino** (31, Ferrè): Computational methods for understanding virulence and epidemiology: application to listeriosis and brucellosis

WEDNESDAY, JULY 18, 2018; AULA MAGNA

Chair: Paolo Pigni

- 9:20 **Marco Russo** (32, Capranico / Marinello): Analysis of gene expression profiles and genomic R loops induced by G-quadruplex ligands in human cancer cells
- 9:40 **Irene bonafede** (31, Ferrè): RNA syntax and semantics: investigating the transcriptome complexity
- 10:00 **Andrea Miti** (32, Zuccheri): Development of DNA based biosensors employing DNA self-assembly for microRNA detection

Chair: Giulia Leone

- 10:20 **Silvia Strocchi** (32, Pession): The Gaucher Disease: a Hyper-Hippo syndrome?
10:40 **Ana Isabel Borrachero** (31, Monti / Caprini / Benfenati): Infrared laser photostimulation stimulates calcium signalling in primary differentiated rodent astrocytes
11:00 **Ana-Caterina Almeida** (33, Porcelli): Cancer cell models to test metabolic intervention strategies

11:20 - 11:50 break!

Chair: Stefany Loibman

- 11:50 **Viola Viviani** (33, GSK / Scarlato): Immuno-profiling the antigenic response of Gram-negative pathogens via combined approaches
12:10 **Libero Gurrieri** (31, Sparla): the "sweet response" to osmotic stress: rearrangements in carbon metabolism in *Arabidopsis thaliana*
12:30 **Marta Palombo** (32, Ciurli / Scarlato): Molecular characterization of the heat-shock regulatory circuit in *Campylobacter jejuni*

12:50 - 14:30 Lunch together!

Chair: Claudio Patavino & Libero Gurrieri

- 14:30 **Roberto Ciaccio** (33, Perini): The novel long non-coding RNA IncNB1 cooperates to MYCN stabilization and poor prognosis in high-risk neuroblastoma
14:50 **Eleonora Poeta** (33, Monti): Molecular mechanisms of brain cells proliferation defects in the rare genetic demyelinating disease AGC1-deficiency: a study on different in vitro models
15:10 **Sara Monticelli** (32, Maestrini): A Drosophila model to study unexplored functions of Multidrug Resistance Protein in Neuroblastoma and Autism Spectrum Disorder
15:30 **Annamaria Zannoni** (33, Scarlato): Impact of selected aminoacids of Helicobacter pylori HP1043 on its function as transcriptional regulator
15:50 **Simona Paglia** (33, Grifoni / Pession): Faraway, so close! Modelling brain cancer in Drosophila.

16:10 - 16:40 break!

Chair: Irene Bonafede

- 16:40 **Giulia Gobbi** (33, Ciarrocchi / Ambrosetti): Study of Mechanism of susceptibility to BET-Inhibitors in Lung Cancer
17:00 **Stefano Miglietta** (33, Porcelli): Bioenergetic profiling of Chemoresistant Ovarian Cancers
17:20 **Stefany Loibman** (31, Scarlato/Roncarati): A genome-wide approach for the identification of the *H. pillory* HrcA regulon