



MICROBIOLOGY 2017

XXXII SIMGBM Congress

Palermo, September 17-20, 2017

Sunday, September 17

- 14.30-16.00 Registration
- 16.00-16.45 **Plenary Lecture**, Chairs M. Sosio & P. Visca
Marnix Medema (Wageningen University, The Netherland)
Computational approaches to natural product discovery
- 16.45-18.45 **General Session: Microbial metabolisms: predictions and modelling**
Chairs: R. Fani & E. Ricca
- 16.45-17.15 **Emmanuelle Bouveret** (CNRS, Marseille, France)
Regulation of lipid metabolism in bacteria
- 17.15-17.45 **Marco Moracci** (Federico II University, Naples, Italy)
A metagenomic approach to the study of microbial metabolic pathways
- 17.45-18.15 **Marco Fondi** (University of Florence, Italy)
Genome-scale prediction of metabolic fluxes
- 18.15-18.45 **Donato Giovannelli** (Earth-Life Science Institute, Tokyo, Japan)
Extremophiles as a model to understand the emergence and evolution of metabolism
- 19.00 Welcome reception

Monday, September 18

- 09.00-11.00 **General Session: Gene regulation in viruses and pathogenic bacteria**
Chairs: F. Briani & E. Tramontano
- 09.00-09.30 **Jonas Blomberg** (University of Uppsala, Sweden)
Endogenous retroviruses and regulatory RNAs: sequence traces of past battles between organism and microbe
- 09.30-10.00 **Riccardo Manganeli** (University of Padova, Italy)
The sigma factors of Mycobacterium tuberculosis: physiology and role in virulence
- 10.00-10.30 **Katarzyna Purzycka** (Polish Academy of Sciences, Poznan, Poland)
How RNA structure governs retroviral replication
- 10.30-11.00 **Maria Letizia Di Martino** (University of Uppsala, Sweden)
One gene and two proteins: a leaderless mRNA supports the translation of a shorter form of the Shigella VirF regulator
- 11.00-11.30 Coffee break

- 11.30-13.30 **General Session: Complex microbial systems**
Chairs: F. Barras & B. Colonna
- 11.30-12.00 **Tam Mignot** (CNRS, Marseille, France)
A single myxobacterial complex at the crossroad of motility, sporulation and predation
- 12.00-12.30 **Emilia Mauriello** (CNRS, Marseilles, France)
The nucleoid as a scaffold for the positioning of macromolecular complexes
- 12.30-13.00 **Sacha Lucchini** (University of Salerno, Italy)
Role and diversity of global gene regulators in bacterial adaptation to the host
- 13.00-13.30 **Giordano Rampioni** (University Roma Tre, Italy)
*Untangling the complexity of the quorum sensing network of *Pseudomonas aeruginosa**
- 13.30-14.30 Lunch
- 14.30-16.00 Poster Session 1
- 16.00-18.00 **General Session: Extracellular vesicles from bacteria to animal cells**
Chairs: E. Affabris & AM. Puglia
- 16.00-16.30 **Meta J Kuehn** (Duke University, Durham, North Carolina, USA)
Biogenesis and functions of bacterial Outer Membrane Vesicles
- 16.30-17.00 **Andreas S Baur** (University of Erlangen, Germany)
Extracellular vesicles in HIV infection and cancer
- 17.00-17.30 **Mariagrazia Pizza** (GSK, Siena, Italy)
Outer Membrane Vesicles in vaccinology
- 17.30-18.00 **Claudia Arenaccio** (University Roma Tre, Italy)
Transfer of viral protein to uninfected cells: the Nef model and its prospective application
- 18.00-19.00 Round Table

Tuesday, September 19

- 09.00-11.00 **General Session: New frontiers in extreme marine microbiology: ecology, biotechnology and evolution**
Chairs: E. Ricca & L. Vezzulli
- 09.00-09.30 **Costantino Vetriani** (Rutgers University, New Jersey, USA)
Novel advances in the microbiology of deep-sea hydrothermal vents
- 09.30-10.00 **Michail Yakimov** (Inst. Coastal Marine Environment, CNR Messina, Italy)
Evolutionary and biotechnological aspects of studying the deep-sea haloarchaea
- 10.00-10.30 **Angelo Fontana** (Institute of Chemistry of Biomolecules, CNR, Naples, Italy)
*Capnophilic lactic fermentation and hydrogen synthesis by *Thermotoga neapolitana**
- 10.30-11.00 **Gian Marco Luna** (Institute of Marine Sciences, Venice, Italy)
Viruses in the dark, deep ocean

- 11.00-11.30 Coffee break
- 11.30-13.30 **General Session: Plant-microbe interactions reloaded: new frameworks for old partners**
Chairs: AM. Puglia & C. Viti
- 11.30-12.00 **George C. diCenzo** (McMaster University, Hamilton, Canada)
Toward the minimal rhizobial genome
- 12.00-12.30 **Davide Bulgarelli** (University of Dundee, Dundee, Scotland, UK)
Tracing the domestication route of the plant microbiota
- 12.30-13.00 **Alessio Mengoni** (University of Florence, Italy)
Genome and metabolic evolution of the symbiotic rhizobia
- 13.00-13.30 **Massimiliano Cardinale** (IFZ Justus-Liebig-University, Giessen)
Diversity and specificity of the seed microbiota
- 13.30-14.30 Lunch
- 14.30-16.00 Poster Session 2
- 16.00-16.45 **Plenary Lecture**, Chairs F. Briani & P. Visca
E. Gerhart H. Wagner (University of Uppsala, Sweden)
It's ok to be different – featuring toxin-antitoxin-driven persisters
- 16.45-18.00 “Franco Tatò” Prize 2017
“Mario Campa” Prize 2017
Naicons Prize 2017
- 18.00-20.00 Annual Society Members' Meeting
- 20.30 Social dinner

Wednesday, September 20

- 09.30-10.15 **Plenary Lecture**, Chairs P. Branduardi & M. Ruzzi
Michael Sauer (Boku University of Wien, Austria)
Synthetic and diverse - microbiology on duty in industry
- 10.30-13.00 **Parallel sessions**
A: Microbial genetics and genomics
B: Environmental and industrial microbiology
C: Interactions between microbes/viruses and their hosts