

Lipari School on Computational Life Sciences

Computational Microbiology and Microbiome-Based Medicine

July 17 - July
24, 2016,
Lipari Island,
Italy

Directors

Alfredo Ferro (University of Catania, Italy)
Michael Levitt (Stanford University, USA)
Carlo M. Croce (Ohio State University, USA)

Steering Committee

Rosalba Giugno (University of Verona, Italy)
Lorenzo Malatino (Director of Graduate Studies in "Translational Biomedicine" University of Catania, Italy)
Gene Myers (Max Planck Institute, Dresden, Germany)
Alfredo Pulvirenti (University of Catania, Italy)
Francesco Purrello (Director "Department Clinical and Experimental Medicine" University of Catania, Italy)
Stephen Quake (Stanford University, USA)
Stefania Stefani (University of Catania, Italy)

PROGRAM

Open introductory lecture

- **Michael Levitt** (Nobel Prize 2013), Stanford University, USA

Closing lecture

- **Carlo M. Croce**, Ohio State University, USA

Speakers

- **Soren Brunak**, Novo Nordisk Foundation Center for Protein Research at University of Copenhagen and Center for Biological Sequence Analysis, Technical University of Denmark - *Metatranscriptomics and transcriptional interdependencies*
- **Gene Myers**, Max Planck Institute, Dresden, Germany - *DNA Sequencing and Bacteria Tracking Systems*
- **Joseph Petrosino**, Baylor College of Medicine, Houston, USA - *Translating the Microbiome of mice and men*
- **Stephen Quake**, Stanford University, California, USA - *Microbiome analysis in Medicine*
- **Andrea Ventura**, Memorial Sloan Kettering Cancer Center, New York, USA - *CRISPR and somatic genome editing for cancer research*

Guest speakers

- **Patrizia Brigidi**, University of Bologna, Italy - *Human gut microbiome*
- **Donata Medaglini**, University of Siena, Italy - *Microbiome and Immunology*
- **Rino Rappuoli**, Siena, Italy - *Reverse Vaccinology GSK Vaccines*
- **Franco Scalfaferrri**, Catholic University of the Sacred Heart, Milano, Italy - *Modulating gut microbiome in Clinics: Fecal Bacteriotherapy or fecal microbiota transplantation*
- **Stefania Stefani**, University of Catania, Italy - *The probiotic approach in the microbiome and multi-drug-resistant era*

Tutorials

- **Salvatore Alaimo**, University of Catania, Catania, Italy - *NGS and Microbiome Analysis*

Application Deadline **May 29, 2016**

More info at: liparischool@dmi.unict.it or lipari.school.bio@gmail.com

<http://lipari.cs.unict.it/LipariSchool/Bio/>