

Locations

Department of Physics - University of Bologna
Via Irnerio 46, Bologna
Academy of Science - University of Bologna
Via Zamboni 31, Bologna
Aula Magna
Department of Experimental Pathology - University of Bologna
Via San Giacomo 12, Bologna

Abstracts

The guidelines and format and for extended abstract submission are available at the following URL:
<http://www.sysbiohealth.eu/symposium2008/abstracts>

Registration

Register for the Sysbiohealth 2008 conference:
<http://www.sysbiohealth.eu/symposium2008/registration>



**Sysbiohealth
Symposium
2008**

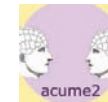
**Medicine and diseases:
a systems biology perspective**

**24-25 November
2008
Bologna, Italy**

Scientific Committee

Lilia Alberghina (University of Milan Bicocca, Italy) - Francesco Beltrame (ICT Department, CNR, Rome, Italy) - Patrizia Brigidì (University of Bologna, Italy) - Gastone Castellani (University of Bologna, Italy) - Gianni Cesareni (University of Rome Tor Vergata, Italy) - Willem De Vos (University of Wageningen, The Netherlands) - Claudio Franceschi (University of Bologna, Italy) - Tom Kirkwood (Newcastle University, UK) - Amos Maritan (University of Padua, Italy) - Luciano Milanesi (Institute of Biomedical Technologies, CNR, Italy) - Olivier Toussaint (Namur University, Belgium)

Organised by Gastone Castellani, Claudio Franceschi, Lilia Alberghina and Luciano Milanesi



› Monday November 24th

TUTORIALS

Department of Physics - University of Bologna
Via Innerio 46, Bologna

08:30

Registration

- 08:40-10:00 Tutorial 1: *Dynamic models of cellular networks*
Daniel Remondini (Bologna, Italy)
- 10:00-11:20 Tutorial 2: *Protein-Protein Interactions*
Gianni Cesareni (Rome, Italy)
- 11:20-12:40 Tutorial 3: *Protein-Protein molecular surface interaction*
Rita Casadio (Bologna, Italy)

> SYMPOSIUM

Academy of Science - University of Bologna
Via Zamboni 31, Bologna

- 13:00-14:00 Buffet Lunch and Registration
14:00-14:10 Opening address and welcome

Session 1: Biological Complex Systems

- 14:10-14:40 Keynote lecture: *Noise in biological complex systems*
Amos Maritan (Padua, Italy)
- 14:40-15:10 Keynote lecture: *Protein and domain interaction networks*
Gianni Cesareni (Rome, Italy)
- 15:10-15:40 Keynote lecture: *Systems-level properties of cell cycle regulatory networks* - Lilia Alberghina (Milan, Italy)
- 15:40-16:00 Discussion

Session 2: Systems Biology of Organs and Diseases: The Gut Microbiota

- 16:00-16:20 *Modulation of Gut Microbiota*
Patrizia Brigidi (Bologna, Italy)
- 16:20-16:50 *Microbes inside*
Keynote lecture: Willem de Vos (Wageningen, The Netherland)
- 16:50-17:10 Discussion

17:10-17:30 Coffee Break and Poster Session

Session 3: Oral Presentations

- 17:30-17:45 *A Systems Biology Approach to oral anticoagulation therapy*
Enza Messina (Milan, Italy)
- 17:45-18:00 Selected Oral Presentation n.2
- 18:00-18:15 Selected Oral Presentation n.3
- 18:15-18:30 Selected Oral Presentation n.4

18:30-19:30 SBH General Assembly

20:30

SOCIAL DINNER

› Tuesday, November 25th

Aula Magna

Department of Experimental Pathology - University of Bologna
Via San Giacomo 12, Bologna

Session 4: Systems Biology of Aging

- 09:00-09:20 *Introduction*
Far from equilibrium open systems also age
Olivier Toussaint (Namur, Belgium)
- 09:20-09:50 *Keynote lecture*
Tom Kirkwood (Newcastle, UK)
- 09:50-10:10 Discussion

10:10-10:30 Coffee Break

Session 5: Systems Biology of Organs and Diseases: The Immune System

- 10:30-10:50 *Introduction*
Modelling viral spreading and immune system complex dynamics
Pietro Liò (Cambridge, UK)
- 10:50-11:20 Keynote lecture: *A systemic and evolutionary approach to immune responses* - Claudio Franceschi (Bologna, Italy)
- 11:20-11:40 Discussion

Session 6: Round Table on: Systems Biology and Systems Medicine: A European Union perspective looking for collaborations and funding

- 11:40-13:00 *Round Table*
Participants: Lilia Alberghina, Francesco Beltrame, Patrizia Brigidi, Gastone Castellani, Gianni Cesareni, Pino Donghi, Claudio Franceschi, Tom Kirkwood, Pietro Liò, Luciano Milanesi, Olivier Toussaint

13:00-15:00 Buffet Lunch and Poster Session

Session 7: Systems Biology of Organs and Diseases: Neuroinformatics and The Brain

- 15:00-15:20 *Perspectives and future challenges in Neuroinformatics*
Luciano Milanesi (Milan, Italy)
- 15:20-15:50 Keynote lecture: *Models of Learning and Memory*
Gastone Castellani (Bologna, Italy)
- 15:50-16:10 Discussion

16:10-16:30 Coffee Break

- 16:30-16:45 Selected Oral Presentation n.1
- 16:45-17:00 Selected Oral Presentation n.2
- 17:00-17:15 Selected Oral Presentation n.3
- 17:15-17:30 Selected Oral Presentation n.4

17:30-17:50 Young Investigator Award Ceremony

17:50-18:00 CLOSING REMARKS