

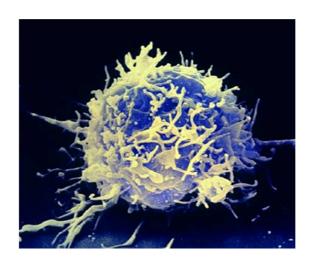




Satellite Meeting on Theoretical Immunology

European Conference on Complex Systems 2013 Barcelona, Spain September 19 2013

Modelling the Complexity of the Immune System



Timetable

09:20 Welcome and Opening

Chair: Alessia Annibale (King's College London)

09:30 Carmen Molina-Paris, University of Leeds

Stochastic modelling in immunology at the molecular, cellular and population levels

10:30 Ulrich Behn, University of Leipzig

Evolution towards a complex architecture and self-tolerance in a minimal model of the idiotypic network

11:00 Coffee break & Poster session

11:30 Rossana Scrivo, Sapienza University of Rome

Autoimmune phenomena of biological treatments

12:00 Pietro Liò, University of Cambridge

Assessing comorbidities risk during an infection: SARS and HIV case studies

12:30 Elena Agliari, University of Parma

Anergy and parallel processing in spin glass models of immune networks







13:00 Lunch & Poster session

Afternoon Session

Chair: Elena Agliari (University of Parma)

14:15 Susan Holechek, Arizona State University

Dengue as a complex epidemiological and immunological system

14:45 Anna Alemany, Universitat de Barcelona

Bond elasticity controls molecular recognition specificity in antibody-antigen binding

15:15 Short break & Poster session

15:30 Marcello Delitala, Politecnico di Torino

A mathematical model of competition between cancer cells and T-cells under immunotherapy

16:00 Deborah Dunn-Walters, King's College London

Challenges of age in immune system

16:30 Coffee break & Poster session

17:00 Collective debate: The big questions and the big obstacles in immune system modelling and its translation to medicine. Road map for the next decade.

Led by Adriano Barra (Sapienza Università di Roma) and Ton Coolen (King's College London)

18:00 End of the Satellite

Sponsors:

FIRALIS, Biomarker research and development
FIRB, Futuro in Ricerca di Base 2008
IMMB-KCL, Institute for Mathematical and Molecular Biomedicine
SAPIENZA, Università di Roma
INFN, Istituto Nazionale di Fisica Nucleare