
BEYOND OMICS REVOLUTIONS: INTEGRATIVE KNOWLEDGE MANAGEMENT FOR EMPOWERED HEALTHCARE AND RESEARCH

Open Symposium

July 5th, 2012

PRBB AUDITORIUM. C/ Dr. AIGUADER, 88. BARCELONA

PRESENTATION

The *omics* research (genomics, proteomics, systems biology, etc.) is generating a huge amount of data that incorporates key information on the biological basis of life and diseases. The management and analysis of this information requires powerful computational tools, which are often labeled as Bioinformatics. As *omics* research, also health care and clinical research generate vast amounts of electronically manageable information; the name normally given to the corresponding scientific discipline being Medical Informatics. Unfortunately, the *omics* information and the Bioinformatics tools are not generating health-related applications at the pace that was initially expected, nor the information generated in the health-related settings is used for enriching the basic biomedical research in the way that one may envisage. The reasons for the underdevelopment of synergic translational approaches between Bioinformatics and Medical Informatics are probably diverse. One of the possible reasons for this is the lack of deep debate on the problem by opinion leaders from the diverse related disciplines.

With the aim of fostering such dialogue, [B-Debate](#), an initiative of Biocat and “la Caixa” Foundation, and the Pompeu Fabra University in the framework of the European [INBIOMEDvision](#) project, organize this open symposium with the participation of some international recognized experts which will present current initiatives in the field, as well as conclusions arising from the previous two-day debates.

Scientific Committee:

Ferran Sanz – Universitat Pompeu Fabra & IMIM, Barcelona, Spain (Chair)
Anthony Brookes – University of Leicester, UK (Vice-Chair)
Søren Brunak – Technical University of Denmark & University of Copenhagen
Peter Coveney – University College London, UK
Johan van der Lei – Erasmus University Medical Center, The Netherlands

More information and registration:

<http://www.bdebate.org/debat/beyond-omics-revolutions-integrative-knowledge-healthcare-and-research>

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PROGRAM

9:00
Welcome

Enric Banda, "la Caixa" Foundation
Montserrat Vendrell, Biocat
Ferran Sanz, IMIM-UPF

9:20
**Big Data Need Big Ontology:
The Omics Revolutions and the
Formalization of Scientific
Knowledge**

Mark Musen, Stanford University
(California, USA)

10:00
**Extracting Fine Grained Disease
Phenotypes and Adverse Drug
Reactions from Electronic
Patient Records**

Søren Brunak, Technical
University of Denmark, University
of Copenhagen (Denmark)

10:40
**Turning Pharmacogenomics
Knowledge into Actionable
Clinical Information**

Russ Altman, Stanford University
(California, USA)

11:20
Coffee Break

11:50
**Micropublications: Semantic
Metadata for Scientific
Communication on the Web**

Tim W. Clark, Harvard Medical
School (Boston, USA)

12:30
**Information Technology and
Personalized Medicine. A
Clinical Perspective**

Norbert Graf, Saarland University
(Saarbrücken, Germany)

13:10
**I4Health: Bridging the
Knowledge Disconnect Between
Research and Healthcare**

Anthony Brookes, University of
Leicester (UK)

13:50
Closing remarks

14:00
Cocktail

www.bdebate.org

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