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

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## Open Symposium

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July 5<sup>th</sup>, 2012

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

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### 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>

B-DEBATE IS AN INITIATIVE OF:



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### PROGRAM

**9:00****Welcome****Montserrat Vendrell**, Biocat  
**Ferran Sanz**, IMIM-UPF**9:20****Big Data Needs 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**

Light Lunch

[www.bdebate.org](http://www.bdebate.org)

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