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

Debates*

July, 3rd and 4th, 2012

CAIXAFORUM 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 a series of debates on the matter on July 3rd and 4th with the participation of a wide scope of internationally recognized experts. After the debate (July 5th) an open symposium with the participation of some of the invited experts will be held in order to present key current initiatives in the field, as well as conclusions arising from the previous 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 and University of Copenhagen, Denmark

Peter Coveney – University College London, UK

Johan van der Lei – Erasmus University Medical Center, The Netherlands

More information:

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

*(attendance by invitation)

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Debates*

Tuesday, July, 3rd 2012

CAIXAFORUM BARCELONA

13:30 Registration

14:30 Welcome and introduction

Ferran Sanz, IMIM – UPF, Spain

SESSION 1: Dealing with biomedical knowledge explosion for better healthcare: Identifying actionable knowledge items at the point of care

14:45 Introductory talk by Anthony Brookes

University of Leicester, UK

15:05 Statement by Russ B. Altman

Stanford University, USA

15:15 Statement by Joan Albanell

Hospital del Mar – IMIM, Spain

15:25 Statement by Teri Klein

Stanford University, USA

15:35 Statement by Angela Brand

Institute for Public Health Genomics,
Maastrich University, The Netherlands

15:45 Statement by Edward H. Shortliffe

Columbia & Arizona State Universities, USA

15:55 Open Debate (35min)

16:30 Coffee break

SESSION 2: Exploiting patient information to enrich basic biomedical research

17:00 Introductory talk by Johan van der Lei

Erasmus University Medical Center, The Netherlands

17:20 Statement by Riccardo Bellazzi

University of Pavia, Italy

17:30 Statement by Alfonso Valencia

National Cancer Research Center, Spain

17:40 Statement by Norbert Graf

Saarland University, Germany

17:50 Statement by José Luís Oliveira

University of Aveiro, Portugal

18:00 Statement by Edward H. Shortliffe

Columbia & Arizona State Universities, USA

18:10 Open Debate (35min)

19:30 Transport from the hotel to UPF Rectorate

20:00 Dinner at UPF Rectorate Building

22:00 Transport to the hotel

*(attendance by invitation)

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Wednesday, July, 4th, 2012

CAIXAFORUM BARCELONA**SESSION 3 Standards for clinical-omics
integration: the semantic challenge**

- 9:00** **Introductory talk by Barend Mons**
Leiden University Medical Centre, The
Netherlands
- 9:20** **Statement by Alfonso Valencia**
National Cancer Research Centre, Spain
- 9:30** **Statement by Patrick Ruch**
University of Applied Sciences, Switzerland
- 9:40** **Statement by Victor Maojo**
Universidad Politécnica de Madrid, Spain
- 9:50** **Statement by Amnon Shabo**
IBM Research, Israel
- 10:00** **Statement by Mark Musen**
Stanford University, USA
- 10:10** Open Debate (35min)
- 10:45** Coffee break

**SESSION 4: New IT paradigms supporting
massive biomedical data
management**

- 11:15** **Introductory talk by Amnon Shabo**
IBM Research, Israel
- 11:35** **Statement by Núria López-Bigas**
Universitat Pompeu Fabra, Spain
- 11:45** **Statement by Riccardo Bellazzi**
University of Pavia, Italy
- 11:55** **Statement by Roderic Guigó**
Center for Genomic Regulation, Spain
- 12:05** **Statement by Anthony Brookes**
University of Leicester, UK
- 12:15** Open Debate (45min)
- 13:00** Lunch

**SESSION 5: Systems medicine: Making systems
biology translational**

- 14:00** **Introductory talk by Søren Brunak**
Technical University of Denmark, University of
Copenhagen, Denmark
- 14:20** **Statement by Peter Ghazal**
University of Edinburgh Medical School, UK
- 14:30** **Statement by Martin Hofmann-Apitius**
SCAI Fraunhofer Institute, Germany
- 14:40** **Statement by Joaquin Gea**
Hospital del Mar-IMIM, Spain
- 14:50** **Statement by Scott Boyer**
AstraZeneca, Sweden
- 15:00** Open Debate (45min)
- 15:45** Coffee break

**SESSION 6: Integrative knowledge
management for improving drug
R&D**

- 16:15** **Introductory talk by Russ Altman**
Stanford University, USA
- 16:35** **Statement by Tim W. Clark**
Harvard Medical School, USA
- 16:45** **Statement by Anthony Rowe**
Janssen Research & Development, UK
- 16:55** **Statement by Martin Hofmann-Apitius**
SCAI Fraunhofer Institute, Germany
- 17:05** **Statement by Scott Boyer**
AstraZeneca, Sweden
- 17:15** Open Debate (45min)
- 18:00** Free time or visit to CaixaForum
- 20:00** Dinner (optional)

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