

## DAY 1: 11 Nov - Closed Debate

CaixaForum. Avinguda Francesc Ferrer i Guàrdia, 6-8, 08038 Barcelona

08:30 – 09:00 Registration

09:00 – 09:20 **Opening & Introduction** TBC (*Biocat*); **Ana Ripoll** (*BIB*); **Ferran Sanz** (*UPF-IMIM*)

### 09:20 – 11:00 1. What is Big Data in Biomedicine? Data types to be considered

09:20 – 09:40 Introductory talk: **Arcadi Navarro**, *Pompeu Fabra University*

09:40 – 09:50 Statement: **Ioannis Xenarios**, *Swiss Institute of Bioinformatics*

09:50 – 10:00 Statement: **Teresa Przytycka**, *National Institutes of Health*

10:00 – 10:10 Statement: **Mark Hughes**, *Thomson Reuters*

10:10 – 10:20 Statement: **Susanna-Assunta Sansone**, *University of Oxford*

10:20 – 10:30 Statement: **John P. Overington**, *EMBL European Bioinformatics Institute*

10:30 – 11:00 Open discussion

11:00 – 11:20 Coffee break

### 11:20 – 13:00 2. Infrastructures for Big Data

11:20 – 11:40 Introductory talk: **Cedric Notredame** and **Roderic Guigó**, *Center for Genomic Regulation*

11:40 – 11:50 Statement: **Blake Fitch**, *IBM · Thomas J. Watson Research Center*

11:50 – 12:00 Statement: **Dominic Clark**, *EMBL European Bioinformatics Institute*

12:00 – 12:10 Statement: **Jessica Vamathevan**, *GlaxoSmithKline*

12:10 – 12:20 Statement: **Toni Cortés**, *Barcelona Supercomputing Center*

12:20 – 12:30 Statement: **Janet Thornton**, *EMBL European Bioinformatics Institute*

12:30 – 13:00 Open discussion

13:00 – 14:00 Lunch

### 14:00 – 15:40 3. Big Data for health

14:00 – 14:20 Introductory talk: **Søren Brunak**, *Technical University of Denmark*

14:20 – 14:30 Statement: **Oscar Della Pasqua**, *GlaxoSmithKline*

14:30 – 14:40 Statement: **Laura Furlong**, *IMIM-UPF*

14:40 – 14:50 Statement: **Tim Hubbard**, *King's College London*

14:50 – 15:00 Statement: **Amnon Shabo (Shvo)**, *EFMI Work Group on Translational Health Informatics*

15:00 – 15:10 Statement: **Modesto Orozco**, *Institute for Research in Biomedicine. BSC*

15:10 – 15:40 Open discussion

15.40 – 16:10 Coffee break

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### 16:10 – 17:50 4. Societal aspects of Big Data (ethical issues, citizens participation, educational aspects, business opportunities, public policies)

16:10 – 16:30 Introductory talk: **Philip E. Bourne**, *National Institutes of Health*

16:30 – 16:40 Statement: **Niklas Blomberg**, *ELIXIR*

16:40 – 16:50 Statement: **Mateo Valero**, *Barcelona Supercomputing Center*

16:50 – 17:00 Statement: **Alfonso Valencia**, *Spanish Institute of Bioinformatics*

17:00 – 17:10 Statement: **Bruno Sobral**, *InnVentis*

17:10 – 17:20 Statement: **Josep Maria Argimon**, *Agència de Qualitat i Avaluació Sanitàries de Catalunya (AQuAS)*

17:20 – 17:30 Statement: **Gisele Roesems-Kerremans**, *European Commission*

17:30 – 17:50 Open discussion

17:50 – 18:15 **Conclusions**

20:00 – **Buffet dinner**

## DAY 2: 12 Nov - Open Symposium

CaixaForum. Avinguda Francesc Ferrer i Guàrdia, 6-8, 08038 Barcelona

09:00 – 09:15 Registration

09:15 – 09:30 **Welcome**

09:30 – 10:00 **Tim Hubbard** - *King's College London*

The 100,000 Genomes project: data, annotation and clinical feedback for genomic medicine in the UK NHS

10:00 – 10:30 **Philip E. Bourne** - *National Institutes of Health*

Opportunities and challenges for international cooperation around big data in biomedicine

10:30 – 11:00 **Janet Thornton** - *EMBL European Bioinformatics Institute*

EMBL-EBI and big data: challenges and opportunities in biomedicine

11:00 – 11:30 Coffee break

11:30 – 12:00 **Susanna-Assunta Sansone** - *University of Oxford*

A sea of life science reporting standards: sink or swim?

12:00 – 12:30 **Søren Brunak** - *Technical University of Denmark*

Temporal analysis of big biomedical data from health records and registries

12:30 – 13:00 **Niklas Blomberg** - *ELIXIR*

European life-science data infrastructure: data, computing and services to communities

13:00 – 13:15 **Event summary and conclusions** (Ferran Sanz)

13:15 – 14:30 Buffet lunch

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## Closed Debate Participants (11 Nov):

*Speakers in bold. List not final.*

<u>FIRST NAME</u>	<u>LAST NAME</u>	<u>ORGANISATION</u>
Eva	Alloza	Bioinformatics Barcelona
Laia	Arnal	B-DEBATE International Center for Scientific Debate Barcelona
<b>Josep Maria</b>	<b>Argimon</b>	Agència de Qualitat i Avaluació Sanitàries de Catalunya
Xavier	Binefa	Information and Communication Technologies, UPF
<b>Niklas</b>	<b>Blomberg</b>	ELIXIR
<b>Philip E.</b>	<b>Bourne</b>	National Institutes of Health
<b>Søren</b>	<b>Brunak</b>	Technical University of Denmark
<b>Dominic</b>	<b>Clark</b>	EMBL European Bioinformatics Institute
<b>Toni</b>	<b>Cortés</b>	Barcelona Supercomputing Center
<b>Oscar</b>	<b>Della Pasqua</b>	GlaxoSmithKline
Antoni	Espinosa	Computer Architecture Department, UAB
<b>Blake</b>	<b>Fitch</b>	IBM Thomas J. Watson Research Center
<b>Laura</b>	<b>Furlong</b>	Research Programme on Biomedical Informatics, IMIM-UPF
Abel	Gonzalez	Research Programme on Biomedical Informatics, IMIM-UPF
Rafael	Griman	HPC & Big Data Architect, Bull
<b>Roderic</b>	<b>Guigó</b>	Center for Genomic Regulation
<b>Tim</b>	<b>Hubbard</b>	King's College London
<b>Mark</b>	<b>Hughes</b>	Thomson Reuters
Natalia	Jiménez	eHealth & Life Sciences, Bull
Amelia	Martín	Spanish Technological Platform for Innovative Medicines
Miguel Angel	Mayer	Research Programme on Biomedical Informatics, IMIM-UPF
<b>Arcadi</b>	<b>Navarro</b>	Pompeu Fabra University
<b>Cedric</b>	<b>Notredame</b>	Center for Genomic Regulation
<b>Modesto</b>	<b>Orozco</b>	Institute for Research in Biomedicine. BSC
<b>John P</b>	<b>Overington</b>	EMBL European Bioinformatics Institute
Janet	Piñero	Integrative Biomedical Informatics Group, IMIM-UPF
<b>Teresa</b>	<b>Przytycka</b>	National Institutes of Health
Núria	Queralt	Integrative Biomedical Informatics Group, IMIM-UPF
<b>Ana</b>	<b>Ripoll</b>	Bioinformatics Barcelona
Jordi	Rodón	Research Unit for Molecular Therapy of Cancer, VHIO
Sergio	Rodriguez	Edwards Lifesciences
<b>Gisele</b>	<b>Roesems-Kerremans</b>	DG CONNECT, European Commission
Maria	Saarela	Research Programme on Biomedical Informatics, IMIM-UPF
<b>Susanna-Assunta</b>	<b>Sansone</b>	Oxford e-Research Centre, University of Oxford
<b>Ferran</b>	<b>Sanz</b>	Bioinformatics Barcelona. IMIM-UPF
<b>Amnon</b>	<b>Shabo (Shvo)</b>	EFMI Work Group on Translational Health Informatics
<b>Bruno</b>	<b>Sobral</b>	InnVentis

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# Big Data in Biomedicine

## Challenges and Opportunities

Barcelona 11-12 Nov 2014

<u>FIRST NAME</u>	<u>LAST NAME</u>	<u>ORGANISATION</u>
Janet	Thornton	EMBL European Bioinformatics Institute
Alfonso	Valencia	Spanish Institute of Bioinformatics
Mateo	Valero	Barcelona Supercomputing Center
Jessica	Vamathevan	GlaxoSmithKline
Ioannis	Xenarios	Swiss Institute of Bioinformatics

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