

FUTURE TOOLS FOR BIOMEDICAL RESEARCH IN VITRO, IN SILICO AND IN VIVO DISEASE MODELING

Thursday, October, 1st, 2015

PROGRAM

COSMOCAIXA BARCELONA . C/ISAAC NEWTON 26

9:15 **Welcome**

9:30 **Animal Research and Possible Alternatives in Biomedicine: Overview**

Elisabet Berggren, JRC-Institute for Health and Consumer Protection, EURL ECVAM Unit, Italy

10:30 **Coffee Break**

11:00 **SESSION 1: BEYOND CELL CULTURE SYSTEMS**

Chair: **Xavier Trepât**, IBEC/ICREA/UB, Barcelona, Spain

11:05 **Cellular Crosstalk in Vitro and its Use in Regenerative Medicine**

James Kirkpatrick, Johannes Gutenberg University, Mainz, Germany

11:30 **Engineering Microenvironments with Growth Factors - Looks Matters**

Manuel Salmerón, University of Glasgow, UK

12:00 **SESSION 2: iPS-BASED APPROACHES**

Chair: **Angel Raya**, CMRB/ICREA/IBEC, Barcelona, Spain

12:05 **Defining the Origins of Variation in Human Pluripotent Stem Cells**

Ron McKay, Lieber Institute, USA

12:30 **Establishing Standardised Access to Human Induced Pluripotent Stem Cell Line Acquisition via the European Bank for Induced Stem Cells**

Paul de Sousa, School of Clinical Sciences, University of Edinburgh, UK

12:55 **Making Medicines more Precise: the role of iPSC and EBiSC**

Timothy Allsopp, Pfizer Ltd, Cambridge, UK

13:20 **Open Debate**

13:45 **Lunch**

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14:45 SESSION 3: ORGAN-ON-A-CHIP

Chair: **Josep Samitier**, IBEC, Barcelona, Spain

14:50 Emergence of Organ-on-a-Chip Technologies: The Hype and the Reality

Roger Kamm, MIT, USA

15:20 Use of iPSC Progeny to Model Disease and Drug Toxicity

Catherine Verfaillie, KU Leuven, Belgium

15:45 Coffee Break

16:15 SESSION 4: IN SILICO MODELS AND SYSTEMS BIOLOGY

Chair: **Roger Guimerà**, URV/ICREA, Spain

16:20 Systems Biology Approaches to Cell Biology

Pablo M. Garcia-Roves, University of Barcelona, Barcelona, Spain

16:45 The Virtual Physiological Human Initiative: Applications in Bone Regeneration

Liesbet Geris, University of Liege, Belgium

17:15 Open Debate

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Friday, October, 2nd, 2015

PRELIMINARY PROGRAM

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10:00 SESSION 5: VALIDATING NEW ANIMAL MODELS

Chair: **Fàtima Bosch**, Universitat Autònoma de Barcelona, Spain

10:05 The International Mouse Phenotyping Consortium: New Insights into the Genetic and Molecular Bases of Disease

Steve Brown, MRC Harwell, Didcot, UK

10:30 Deciphering Genetic and Epigenetic Function in Diabetes

Martin M. Hrabe de Angelis, Helmholtz Zentrum München, Munich, Germany

11:00 Coffee Break

11:30 SESSION 6: PLAYING SAFE, PLAYING FAIR

Chair: **Miquel Borràs**, CERETOX, Universitat de Barcelona, Spain

12:00 Use of Alternative Methods in Drug Safety Assessment

Antonio Guzmán, Lab. Esteve, Barcelona, Spain

12:30 ECVAM and SEURAT-1 Experiences Looking Towards a More Efficient Safety Assessment

Elisabet Berggren, JRC-Institute for Health and Consumer Protection, EURL ECVAM Unit, Italy

12:55 Open Debate

13:15 Closing Remarks

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