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

Thursday, October, 1st, 2015
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, EURiL, ECVAM Unit, Italy

10:30 Coffee Break

11:00 SESSION 1: BEYOND CELL CULTURE SYSTEMS
Chair: Xavier Trepals, 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

B-DEBATE IS AN INITIATIVE OF:  WITH THE COLLABORATION OF:
FUTURE TOOLS FOR BIOMEDICAL RESEARCH
IN VITRO, IN SILICO AND IN VIVO DISEASE MODELING

Thursday, October, 1st, 2015
COSMOCAIXA BARCELONA . C/ISAAC NEWTON 26

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

Friday, October, 2nd, 2015

COSMOCAIXA BARCELONA . C/ISAAC NEWTON 26

10:00  SESSION 5: VALIDATING NEW ANIMAL MODELS  
Chair: Fátima 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