



WELCOME
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PROGRAMME

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C2P2: Cells, Culture, Patients, Products

Programme

Information on
Workshops!!

SUNDAY 31st MAY

09.00 Registration opens

Final Scientific

11.30-13.00 Topical Workshops (in parallel)

Program

Available

- **Single-cell analysis – A new tool for bioprocess engineering**
(Level 2 - Room 3)
- **From Glycoscience to Glycobiotechnology**
(Level 3 - Room 5)
- **Synthetic biology: New tools for engineering mammalian cells**
(Level 3 - Room 6)

Important
Dates

13.00-14.00 Lunch break (level 3 - Hall)

Abstract
submission:
December 10th
2014

Early
registration
Deadline:
March 30th 2015

14.00-15.30 Company Workshops (in parallel)

Meeting:
May 31st 2015

- Thermo Fisher Scientific: CELL CULTURE: "High Octane Fed-Batch: Process Intensification Reimagined" and SINGLE-USE TECHNOLOGY: "Innovative Single Use Technologies for Biopharma Processes"
(Level 2 - Room 3)
- Sartorius Stedim Biotech: Innovation in Cell Culture Technology
(Level 3 - Room 5)
- SAFC: Applying an integrated design approach to create a novel high performance fed-batch media system for mammalian cells
(Level 3 - Room 6)

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If you are interested in collaborating, please contact [here](#)

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16.00-17.30 Opening & KeyNote (Auditorium)

Chairperson: Martin Fussenegger

- Biological Functions and Therapeutic Potential of Vascular Endothelial Growth Factors
Kari Alitalo (Translational Cancer Biology Program and Wihuri Research Institute, Biomedicum Helsinki, Finland)

17.30-19.00 Session 1: Cell line engineering (Auditorium)

Chairpersons: Hitto Kaufmann and Hansjörg Hauser

- 17.30-18.00. Front-line of genome editing technology for animal cell engineering
Tetsushi Sakuma (Hiroshima University, Japan)
- 18.00-18.20. Efficient genome engineering of CHO cell factories using CRISPR Cas9 technology
Helene Faustrup Kildegaard (Technical University of Denmark, Denmark)
- 18.20-18.40. Optimization of protein production via genetic engineering of CHO cell line
Pierre-Alain Girod (Selexis, Switzerland)
- 18.40-19.00. Enabling tools for virus producer cell line development and engineering
Ana Sofia Coroadinha (IBET, Portugal)

19.00-21.00 Traders Reception (Level 0 - Exhibiton area)

MONDAT 1st JUNE

09.00-10.30 Session 1: Cell line engineering (Auditorium)

Chairpersons: Hitto Kaufmann and Hansjörg Hauser

- **09.00-09.30. C/EBP a creates an elite cell state in B cells**
Thomas Graf (Center of Genomic Regulation, Spain)
- **09.30-09.50. Adventitious agent contamination risk mitigation: engineering mmv virus resistance into the chozn® platform**
Joaquina Mascarenhas (Sigma Aldrich, USA)
- **09.50-10.10. Finding the needle(s) in the haystack: identification of mirna master regulators improving productivity independent of cell type and product**
Simon Fischer (University of Applied Sciences Biberach, Germany)
- **10.10-10.30. Production of IgGs with a human-like sialylation in CHO cells.**
Céline Raymond (National Research Council of Canada, Canada)

10.30-11.00 Coffee break (Level 0 - Exhibition area)

11.00-13.00 Session 2: Cell based assays to drive drug development (Auditorium)

Chairpersons: Manuel Reina and Christa Burger

- **11.00-11.30. Cell-based methods for early detection of hepatotoxicity in drug development: high content multiparametric screening and toxico-metabolomics**
José Vicente Castell (Hospital La Fe, Spain)
- **11.30-12.00. Novel iPSC-derived cellular systems for in vitro disease modeling.**
Giorgia Salvagiotto (Cellular Dynamics, USA)
- **12.00-12.15. Next-generation 96-well tissue culture plates re-engineered via 3D printing: A screening platform for measuring contractile force in human pluripotent stem cell-derived cardiac microtissues.**
Nimalan Thavandiran (University of Toronto, Canada)
- **12.15-12.30. A "Human-on-a-Chip" platform-aiming for a paradigm shift in substance testing**
Uwe Marx (TissUse Berlin, Germany)
- **12.30-12.45. Metabolic profiling of human neural cells: combining 3d in vitro models and 13c-nmr spectroscopy.**
Daniel Simão (IBET, Portugal)
- **12.45-13.00. Immortalized lung epithelial cells with in vivo like characteristics.**
Tobias May (InSCREENeX GmbH, Germany)

13.00-14.30 Lunch break (Level 2 - Restaurant)

14.30-16.00 Poster session and coffee (Level 1 and 0)
Presenting authors must be at their poster for discussion

16.00-17.30 Session 3: Linking process engineering to product quality
(Auditorium)

Chairpersons: Ashraf Amanullah and Alain Bernard

- **16.00-16.30. The beauty and the beast: a perspective on Biopharmaceuticals.**
Ralf Otto (McKinsey and Co, Germany)
- **16.30-16.50. Improved production and quality of enveloped viral particles in BEVS: a host cell-driven and target-oriented approach.**
Francisca Monteiro (IBET, Portugal)
- **16.50-17.10. Identification of process parameters influencing product quality in mammalian cell culture.**
Albert Paul (Biberach University of Applied Sciences, Germany)
- **17.10-17.30. Non-fucose level as a function of glycoenzyme transcription in a glycoengineered cho cell line.**
Sven Markert (Roche Diagnostics GmbH, Germany)

18.00-22.00 Sagrada Família + Hospital Sant Pau + Cocktail

TUESDAY 2nd JUNE

09.00-10.30 Session 3: Linking process engineering to product quality
(Auditorium)

Chairpersons: Ashraf Amanullah and Alain Bernard

- **09.00-09.30. When Bad Things Happen to Good Proteins: Effects of Cell Culture Process on Protein Characteristics**
Robert Kiss (Genentech, USA)
- **09.30-09.50. Understanding the impact of mild hypothermia on monoclonal antibody glycosylation in cho cell cultures.**
Si Nga Sou (Imperial College London, UK)
- **09.50-10.10. Dynamic flux analysis of GS-CHO cells: Identifying the burden of protein glycosylation on cellular metabolism.**
Ioscani Jiménez Del Val (University College Dublin, Ireland)
- **10.10-10.30. Process parameters impacting product quality**
Jan Bechmann (Boehringer Ingelheim Pharma GmbH & Co. KG, Germany)

10.30-11.00 Coffee break (Level 0 - Exhibition area)

11.00-13.10 Session 4: Emerging technologies (Auditorium)

Chairpersons: Martin Fussenegger and Ana Filipa Rodrigues

- **11.00-11.40. Targeting cancer and chronic inflammation with armed antibodies and small molecule drug conjugates**
Dario Neri (ETH Zurich, Switzerland)
- **11.40-12.10. Complex primary cell-based models for drug discovery**
Heinz Ruffner (Novartis Institute of Biomedical Research, Switzerland)
- **12.10-12.25. DNA methylation in CHO dp-12 cells: landscape and effects on gene expression**
Ana Wippermann (Bielefeld University, Germany)
- **12.25-12.40. High-Density 3D Cell Culture and Analysis in an Integrated Microfluidic Platform**
Sebastien Sart (Ecole Polytechnique LADHYX, France)
- **12.40-12.55. Mammalian designer cells for biomedical applications**
David Ausländer (ETH Zürich Basel, Switzerland)
- **12.55-13.10. Multi-omics approach for comparative studies of monoclonal antibody producing cho cells**
Camila A. Orellana (AIBN, The University of Queensland, Australia)

13.10-14.30 Esact General Assembly (Lunch provided) (Room 5)**13.10-14.30** Lunch break (Level 2 - Restaurant)**14.30-16.00** Poster session and coffee (Level 1 and 0)

Presenting authors must be at their poster for discussion.
From 14.30 to 15.15 for even poster numbers and from 15.15 to 16.00 for uneven numbers

16.00-17.30 Session 5: New Therapeutic Approaches (Auditorium)

Chairpersons: Terry Papoutsakis and Margarida Serra

- **16.00-16.30. Antibody-drug conjugates: implications on the design of mAbs**
Aad van de Leur (Synthon Biopharmaceuticals, The Netherlands)
- **16.30-16.50. Expression and manufacture of a new bispecific drug for her2+breast cancer: the beat-gbr 1302 antibody**
Pierre Moretti (Glenmark Pharmaceuticals, Switzerland)
- **16.50-17.10. Development of an advanced cell therapy product indicated for the treatment of gonarthrosis**
Joaquim Vives (Banc de Sang I Teixits, Spain)
- **17.10-17.30. Optimization of hpsc production from distinct pluripotent and metabolic states**
Yonatan Lipsitz (University of Toronto, Canada)

18.00-22.30 Outing to Codorniu winery + dinner

WEDNESDAY 3rd JUNE

09.00-10.30 Session 5: New Therapeutic Approaches (Auditorium)

Chairpersons: Terry Papoutsakis and Margarida Serra

- 09.00-09.40. AVV at 50: A golden anniversary of discovery research, and gene therapy success in the Samulski lab
R. Jude Samulski (U. North Carolina, USA)
- 09.40-10.10. Rapid Response Ebola Antibody Development Enabled by High Throughput Technologies
Kevin Bailey (Regeneron, USA)
- 10.10-10.30. Protein aerosol for intranasal nose to brain (N2B) delivery
Martina Stuetzle (University of applied Sciences Biberach, Germany)

10.30-11.00 Coffee break (Level 0 - Exhibition area)

11.00-13.00 Session 6: Cell based Vaccines (Auditorium)

Chairpersons: Amine Kamen and Yvonne Genzle (proposed)

- 11.00-11.30. Recombinant vaccine made in Insect cells
Mannon Cox (Protein Sciences, USA)
- 11.30-12.00. Fighting Ebola Virus infection: the Development and Use of Ebola Monoclonal Antibodies and Vaccines
Xiangguo Qiu (Public Health Agency, Canada)
- 12.00-12.20. Development of an anti-idiotypic Mab as cancer vaccine: from discovery to approval
Adolfo Castillo (Center of Molecular Immunology, Cuba)
- 12.20-12.40. Development of a mammalian cell culture process for the rapid clinical-scale production of novel influenza nanoparticle vaccines
Payal Biswas (VPP-VRC-NIAID-NIH, USA)
- 12.40-13.00. Purification of Modified Vaccinia Virus Ankara from suspension cell culture
Ingo Jordan (ProBioGen AG, Germany)

13.00-14.30 Lunch (Level 2 - Restaurant)

14.30-16.00 Poster session: presentation of posters selected for poster prize (Auditorium)

Chairpersons: Mercedes Segura and Verena Lohr

16.00-17.30 Keynote + Closing

Chairperson: Hansjörg Hauser

- **Gene Therapy of Inherited Muscle Diseases**
Fulvio Mavilio (Genethon, France)

21.00-24.00 Gala Dinner at MNAC



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