

The “European Bank for induced pluripotent Stem Cells”



The EBiSC consortium welcomes you to the Workshop

“Scalability of iPSC technology for future drug discovery & therapy”

www.ebisc.eu

PURPOSE: The workshop aims at disseminating the learning from the establishment of the European Bank for induced Pluripotent Stem Cells (EBiSC) and address perspectives on stem cell applications over the next five years.

KEYNOTE SPEAKERS:

Florian T. Merkle, PhD. (University of Cambridge)
Prof. Christine Mummery (Leiden University Medical Center)
Prof. Marc Peschanski (Scientific Director CECS/I-STEM, AFM)

ORGANISERS: The UK Stem Cell Bank/NIBSC (UK) with support from Prof. Andreas Kurtz (Charité-BCRT), Prof. Glyn Stacey (ISCBi), Prof. Heiko Zimmermann (Fraunhofer-IBMT), Kevin Bruce (Roslin Cell Sciences / CENSO Biotechnologies) and Beate Kreisel (ARTTIC).

ABOUT EBiSC: EBiSC enables academic & commercial scientist to access quality-controlled, disease-relevant, research-grade iPSC lines, data and cell services for use in disease modelling and other forms of pre-clinical research.

WITH SPECIAL THANKS TO:



Thursday, 2 November 2017

iPSC Biobanking at Scale

10.30 - 10.55	Coffee & Registration	
10.55 - 11.00	Welcome	Glyn Stacey, International Stem Cell Banking Initiative (UK)
Session 1 Chair - Andreas Ebneht, Janssen Pharmaceutica (NV)		
11.00 - 11.15	Introductory overview	Andreas Ebneht, EBiSC Coordinator, Janssen Pharmaceutica (NV)
11.15 - 11.45	Development of iPSCs for disease studies	Mark Burcin, StemBANCC, Roche Innovation Center Basel (CH)
11.45 - 12.15	EBiSC - Challenges of initiating large scale banking	Kevin Bruce, Roslin Cell Sciences / CENSO Biotechnologies (UK)
12.15 - 13.00	Culture acquired mutations in human pluripotent stem cells; implications for regenerative medicine	Florian T. Merkle, University of Cambridge, WT-MRC Institute of Metabolic Science and WT-MRC Cambridge Stem Cell Institute (UK)
13.00 - 14.00	Networking lunch buffet	
Session 2 Chair - Heiko Zimmermann, Fraunhofer-IBMT (DE)		
14.00 - 14.30	EBiSC - Automated expansion & cryopreservation at scale	Julia Neubauer, Fraunhofer-IBMT (DE)
14.30 - 14.50	EBiSC - QC development for high throughput stem cell banking repositories	Orla O'Shea, UK Stem Cell Bank / NIBSC (UK)
14:50 - 15.00	Development of QC systems for research & translation	Glyn Stacey, International Stem Cell Banking Initiative (UK)
15.00 - 15.30	Coffee break	
15.30 - 16.00	EBiSC - International distribution & long-term sustainability of cell line collections; challenges and opportunities	Bryan Bolton, European Collection of Authenticated Cell Cultures (UK)
16.00 - 16.30	Challenges and solutions for the reliable and efficient international shipment of cells	Soren Knudsen, Cryoport (UK)
16.30 - 17.00	Open discussion forum with EBiSC expert partners and speakers	Chaired by Andreas Kurtz, Charité-BCRT (DE)
17.00 - 19.00	Please join us for a networking reception in the main foyer	

Friday, 3 November 2017

Applications of Stem Cell Biobanks

Session 3 Chair - Jack Price, UK Stem Cell Bank / NIBSC (UK)

09.00 - 09.50	Developing stem cell-based drug screening	Christine Mummery, Leiden University Medical Center (NL)
09.50 - 10.20	EBiSC - Screening stem cell-based systems for drug discovery	Ole Pless, Fraunhofer IME Screening Port (DE)
10.20 - 10.50	Coffee break	
10.50 - 11.20	EBiSC - Management, discovery and distribution of large data sets on stem cells	Peter Harrison, EMBL-EBI (UK)
11.20 - 12.05	Taking stem cell lines to therapy	Marc Peschanski, Scientific Director CECS/ I-STEM, AFM (FR)
12.05 - 13.00	Networking lunch buffet	

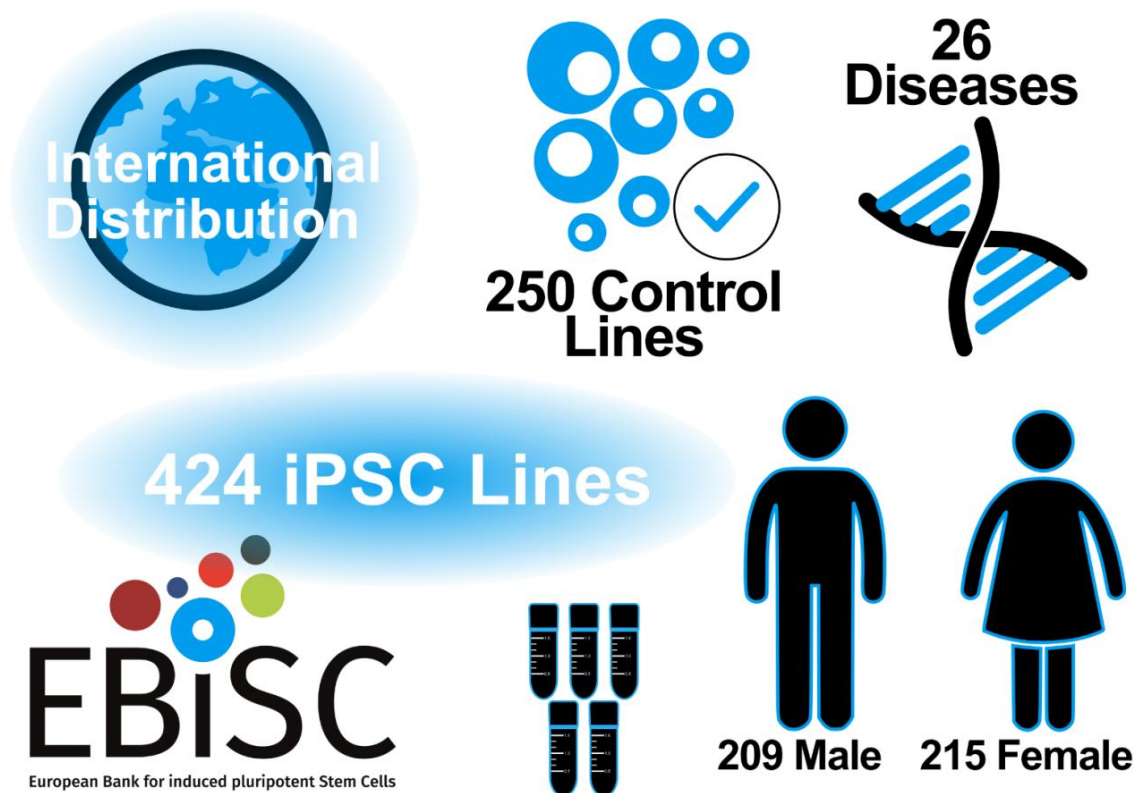
Session 4 Chair - Andreas Kurtz, Charité / BCRT, hPSCreg (DE)

13.00 - 13.30	EBiSC - Governance procedures for data and scientific quality of iPSC lines for research and therapy	Andreas Kurtz, Charité / BCRT, hPSCreg (DE)
13.30 - 14.15	Open discussion forum with EBiSC expert partners and speakers	Chaired by Heiko Zimmermann, Fraunhofer-IBMT (DE)
14.15 - 14.30	Workshop Summary	Glyn Stacey, ISCBI (UK)
14.30	Close	

The EBiSC Catalogue

<https://cells.ebisc.org>

The EBiSC collection currently holds over 400 iPSC lines representing 26 diseases and including 250 controls from healthy donors. The large number of lines from healthy donors (of both genders) from a wide age range ensures that researchers can find suitable control lines for their studies. The collection also holds numerous isogenic controls which when paired with disease representative lines may be used to overcome the challenge of genetic background variations confounding disease traits. The most highly represented diseases in the collection are Alzheimer's Disease, Frontotemporal Dementia, Bardet-Biedl Syndrome, Parkinson's Disease and heart disease including Brugada syndrome, hypertrophic cardiomyopathy, familial long QT syndrome and catecholaminergic polymorphic ventricular tachycardia.



Information about EBiSC: www.ebisc.eu

Access to the EBiSC Catalogue: <https://cells.ebisc.org>

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