

4th MEETING OF THE GERMAN STEM CELL CORES

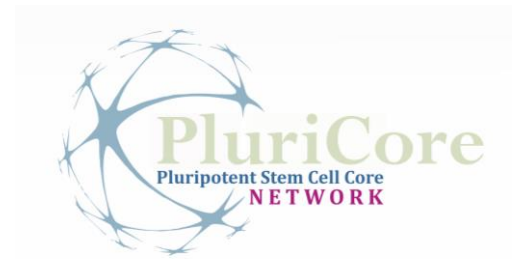
BERLIN
INSTITUTE
OF HEALTH

Charité & Max Delbrück Center

Venue:

Charité – Universitätsmedizin Berlin
Berlin-Brandenburg Center for Regenerative Therapies (BCRT)
Room 0.0043
Föhrer Str. 15, 13353 Berlin

Contact: claudia.schaar@charite.de, +49 30 450 539 423



November 15, 2018

Presentations | Discussions | CHAIR: Daniel Besser (GSCN, Max-Delbrück-Centrum, Berlin)

12:30 PM Arrival, Lunch, Registration

SESSION: GENOMIC STABILITY

- 1:30 PM **Harald Stachelscheid** (BIH Stem Cell Core Facility, Berlin)
Intro / Overview on methods for analysis of genomic integrity
- 1:50 PM **Lucia Trastulla** (Max Planck Institute of Psychiatry, Munich)
A digital genotyping pipeline for iPSCs using the GSA array
- 2:10 PM **Janina Grosch** (Molecular Neurology, University Hospital Erlangen)
Somatic variations in iPSC: Digging Deeper
- 2:30 PM **Kaindl, Johanna** (Friedrich-Alexander University, Erlangen-Nürnberg)
Zooming in on cryopreservation of hiPSCs and neural derivatives: a dual-center study using adherent vitrification
- 2:50 PM **Ole Pless** (Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Hamburg)
1) Genomic integrity assessment for hiPSC line generation for industry customers (Evotec showcase)
2) Brain microvascular endothelial cell differentiation for in vitro blood-brain barrier generation
- 3:10 PM BREAK
- 3:40 PM **Peter Andrews** (Department of Biomedical Science, University of Sheffield, UK)
Culture acquired genetic variants of human pluripotent stem cells

SESSION: AUTOMATION

- 4:00 PM **Sebastian Diecke** (BIH Stem Cell Core Facility, Berlin)
Automation of genome editing and reprogramming: ideas and plans
- 4:20 PM **Michael Peitz** (Institute of Reconstructive Neurobiology, University Hospital Bonn)
StemCellFactory III: Towards Automated Genome Editing
- 4:40 PM **Alexander Feuerborn** (Iota Sciences, Oxford, UK)
Single-cell cloning made easy with fluid-shaping technologies

SESSION: BANKING AND TRANSLATION

- 5:00 PM **Daniel Besser** (GSCN, Max Delbrück Centrum, Berlin)
Turning the stem cell into innovative therapies: Clinical translation of stem cell research in Germany
- 5:20 PM **Glyn Stacey** (The International Stem Cell Banking Initiative, Cambridge, UK)
The International Stem Cell Banking Initiative: Development of Best Practice for Pluripotent Stem Cell Resource Centres
- 5:40 PM **Thure Adler** (Institute of Stem Cell Research, Helmholtz München)
Donor Consent and Ethical vote for biopsies in regards to iPSC for future clinical use - first hand lessons from the iPStemRNA consortium
- 7:30 PM **Dinner** at Clärchens Ballhaus (Auguststraße 24 10117 Berlin)

November 16, 2018

Presentations | Discussions | Chair: Micha Drukker (Institute of Stem Cell Research, Helmholtz München)

- 9:30 AM **Stefanie Seltmann** (Charité, Berlin-Brandenburg Center for Regenerative Therapies)
1) Standard Nomenclature for hiPSC lines
2) International Cell Type Authentication Committee (ICTAC)

SESSION: GENE EDITING

- 9:50 AM **Christian Freund** (Leiden University Medical Center, Netherlands)
LUMC hiPSC core facility: update on gene editing
- 10:10 AM **Sylvia Merkert** (Hannover Medical School, LEBAO)
Different concepts of gene targeting in human iPSC: TALEN mRNA transfection, knockout generation and media for single-cell cloning
- 10:30 AM **Holm Zaehres** (Max Planck Institute for Molecular Biomedicine, Münster)
CRISPR/Cas9 genome editing of pluripotent and somatic stem cells
- 10:50 AM **Friederike Matheus** (Institute of Stem Cell Research, Helmholtz München)
Modeling Bohring-Opitz syndrome with the iCas9 human embryonic stem cell line
- 11:10 AM **Lukas Cyganek** (Stem Cell Unit, Herzzentrum - Universitätsmedizin Göttingen)
Genome Editing at the Stem Cell Unit-Göttingen
- 11:40 AM **Ulrich Dirnagl** (Charité, BIH Quest Center, Berlin)
tba
- 12:00 PM Lunch
- Open Discussion:**
- 1:00 PM -COST (European Cooperation in Science and Technology) Action
-ISSCR 2021 Hamburg: Session with COREdinates Network
-Exchange of cell lines (Survey results)
- 3:00 PM End of Meeting