

# \_Program

## Tuesday, April 21st

8:00 – 9:00 am    \_Registration

**9:00 – 9:30 am    \_Opening of the Meeting**

Oliver Brüstle, Chairman

Svenja Schulze, Minister for Innovation,  
Science and Research of the State of North Rhine-Westphalia

**9:30 – 10:50 am    \_Opening Lectures, Chair: Oliver Brüstle**

Fred Gage (La Jolla)

*Neuronal plasticity genomic diversity*

Dieter Sturma (Bonn)

*Stem cell research: the ethical challenges*

10:50 – 11:30 am    \_Coffee Break, Poster Session

**11:30 – 12:30 pm    \_Session I: Neural Development and Stem Cells, Chair: Andreas Faissner**

Jürgen Knoblich (Vienna)

*Modelling human brain development in 3D organoid culture*

Ronald McKay (Baltimore)

*Using the functional identity of human stem cells*

12:30 – 1:45 pm    \_Lunch Break, Poster Session

**1:45 – 3:00 pm    \_Session II: Stem Cell Engineering, Chair: Martin Zenke**

Matthias Lutolf (Lausanne)

*Engineering tissues via extracellular matrix-guided stem cell self-organisation*

Adam Cohen (Cambridge, USA)

*All-optical electrophysiology for iPSC neuronal disease modeling*

Judith Kempfle (Boston)

*Sox2 – positive cells in the cochlea function as inner ear progenitors (selected talk)*

3:00 – 3:30 pm    \_Coffee Break, Poster Session

**3:30 – 4:45 pm    \_Session III: Self Organization of Stem Cells, Chair: James Adjaye**

Hiromitsu Nakauchi (Tokyo)

*“Organ niche” and “developmental complementation”  
for generation of functional organs in vivo*

Thomas Zwaka (New York)

*Cell competition in pluripotent stem cells*

Laura Stappert (Bonn)

*Transcriptional Regulation & Non-Coding RNAs (selected talk)*

4:45 – 7:00 pm    \_Poster Session

**7:30 – 10:30 pm    \_Networking Event**

## Wednesday, April 22nd

- 8:30 – 9:30 am    \_Registration
- 8:15 – 9:15 am    \_Early Career Breakfast – Meet the Experts (registered participants only)
- 9:30 – 10:45 am**    \_**Session IV: Therapeutic Approaches, Chair: Boris Greber**  
Shoukhrat Mitalipov (Portland)  
*Nuclear transfer and reprogramming*
- Clare Blackburn (Edinburgh)  
*Inducing a thymus, in vivo and in vitro*
- Luna Simone Pane (Munich)  
*Antisense-mediated exon skipping: a therapeutic strategy for titin-based dilated cardiomyopathy (selected talk)*
- 10:45 – 11:30 am**    \_**Panel Discussion “Great Expectations”**  
Christina Berndt, Clare Blackburn, John Harris, Ralf Müller-Terpitz, Dieter Sturma
- 11:30 – 12:00 am    \_Coffee Break
- 12:00 – 1:30 pm**    \_**Session V: Specification of Stem Cells, Chair: Christian Kaltschmidt**  
Michael Brand (Dresden)  
*Regeneration of the adult zebrafish brain*
- Benedikt Berninger (Mainz)  
*Brains in metamorphosis: Physiological and forced neurogenesis in the adult brain*
- Henrik Semb (Copenhagen)  
*From pancreas organogenesis to making beta cells in a dish*
- 1:30 – 2:30 pm    \_Lunch Break, Poster Session
- 2:30 – 3:30 pm**    \_**Session VI: Disease Modeling, Chair: Matthias Höhn**  
Rick Livesey (Cambridge)  
*Mechanistic insights into Alzheimer’s disease pathogenesis from human stem cell models*
- Ludovic Vallier (Cambridge)  
*Modelling liver diseases using human induced pluripotent stem cells*
- 3:30 – 4:00 pm**    \_**Coffee Break**
- 4:00 – 5:00 pm**    \_**Session VII: HSC: Metabolism & Aging, Chair: Peter Horn**  
Bertie Göttgens (Cambridge)  
*Transcriptional network control of blood cell development*
- Sten Eirik Jacobson (Oxford)  
*Emergence of fetal immune-restricted lympho-myeloid progenitors prior to definitive hematopoietic stem cells*
- Following**        \_**Poster Awarding, Closing Remarks**