



SCEF
Stem Cell Engineering
Facility of CRTD



CRTD
Center for Regenerative
Therapies TU Dresden

Organoid and Stem Cell Facility
MAX PLANCK INSTITUTE
OF MOLECULAR CELL BIOLOGY
AND GENETICS



CRTD, right Auditorium

Symposium

20th August 2025

From Cells to Medicine: Disease Modeling and Future Therapies with Pluripotent Stem Cells

13:00 Welcome

13:05 **From High Quality Stem Cells to 2D and 3D Models**

Christina Eugster Oegema (Organoid and Stem Cell Facility, MPI-CBG)

13:15 **Heart Rate in a Dish: Recapitulating Species Specific Heart Rates with Stem Cell Derived Pacemaker Cardiomyocytes**

Abiram Eliab Olivares Resendiz (Miki Ebisuya lab)

13:40 **Optimizing Scalable Systems for iPSC-derived Novel Cellular Therapeutics**

Sethuraman Subramanian (Michael Sieweke lab)

14:05 **Pathology and Therapy Modeling in Human Retina Organoids**

Natalie Dumler & Felix Wagner (Mike O. Karl lab)

14:30 Coffee Break

15:10 **The Right Control Matters – Isogenic iPSC Lines for Disease Modeling**

Katrin Neumann (Stem Cell Engineering Facility, CRTD)

15:20 **Role of Impaired Condensate Formation in Neurodegeneration due to SAMHD1 Deficiency**

Jennifer Pacheco (Min Ae Lee-Kirsch lab)

15:45 **From Stem Cells to Synapses: Empowering iPSC-Based Neural Research**

Katharina Debowski (Stem Cell Technologies)

16:10 **Human-specific Regional Fluidization of Neuroepithelia**

Shuting Xu (Miki Ebisuya lab)

16:35 **Human iPSC-derived Platforms for Neural Crest Disease Modeling**

Marcel Gebhardt (Nicole Bechmann lab)

17:00 Get-together with snacks and drinks sponsored by:



Organizers: Christina Eugster Oegema,
Katrin Neumann