

Pre X-Mas Symposium

iPS Based Cell Therapies- From Bench to Bedside

Hannover, Altes Rathaus / Old City Hall, December 3rd -4th, 2019

Tuesday, December 3 rd	
08:30	Registration
09:00	Opening Robert Zweigerdt and Ulrich Martin
Session topic I: hPSC progeny production and the regulatory environment for cell therapies Chairs: Sebastian Knöbel and Dirk Strunk	
09:15	Key Note: Christine Mummery (NL) Intercellular dialogue in the heart modelled using differentiated hPSC
09:50	Paul Burridge (US) hPSC cardiomyocytes: Evolution of differentiation and application processes
10:15	Coffee break
10:45	Robert Zweigerdt (GER) Upscaling hPSC and progeny production including CMs, ECs and macrophages
11:10	Henrik Semb (DK) Pluripotent stem cells for cell therapy in T1D
11:35	Gerald Schumann (GER) The current regulatory environment for iPS cell-based medicinal products
12:00	Lunch with poster session Committee: Henning Kempf, Katharina Kinast, Ruth Olmer, Valeria Orlova
Session topic II: Sharing companies' perspective and experience Chairs: Ina Gruh and Joseph Itskovitz-Eldor	
13:30	Sebastian Knöbel, Miltenyi (GER) Making GMP-compliant media and reagents for cellular therapeutics
14:00	Philipp Nold, DASGIP-Eppendorf (GER) and Serge Jooris, Ovizio (BEL) Innovations of Materials and Technologies for process development and monitoring of cell therapeutics
14:30	Michal Izrael, Kadimastem (ISR) From hPSCs Research to Cell Therapies for Neurodegenerative Disorders
14:55	Allan Karlsen, Novo Nordisk (DK) From hPSCs Research to Cell Therapies
15:20	Michael Harder, Corlife (GER) Cell-free allografts: the long journey of a therapeutic idea
15:45	Coffee Break
Session topic III: (Genetic) Safety risks and ethics in cell therapies Chairs: Ivana Barbaric and Yoji Sato	
16:15	Key note: Nissim Benvenisty Genomic variants in pluripotent stem
16:50	Peter Andrews (UK) The Origin, Mechanisms and Consequences of Acquired Genetic Variants in Human Pluripotent Stem Cells

17:15	Ulrich Martin Enrichment of Small Scale Genomic Variants during Reprogramming
17:40	Dirk Strunk (AT) Progress and risks in Mesenchymal Stromal Cell therapies
18:05	Nils Hoppe Stem Cells and Gene Editing: Legal and Ethical Issues
18:30 Closing	
19:30 Evening Get-Together Gartensaal, Neues Rathaus	

Wednesday, December 4th	
Session topic IV: Current State in the Art of iPS cell based heart repair: large animal models and clinical translation	
Chairs: Christine Mummery and Paul Burridge	
09:30	Key Note: Yoji Sato (JP) Updates to Japan's regulation and/or quality issues of PSCs for cell therapies
10:05	Joost Sluijter (NL) Optimisation of cellular retention
10:30	Ina Gruh (GER) hPSC-derived cardiac aggregate transplantation in non-human primates
10:55	Coffee Break
11:30	Wolfram Zimmermann (GER) Translation of Engineered Heart Repair
11:55	Philippe Menasche (FR) hPSC-derived cardiomyocyte: clinical transplantation for heart repair
12:20	Poster session and lunch
Session topic V: Current State in the Art of heart support or replacement and beyond: Technical devices, human organ transplants	
Chairs: Philippe Menasché and Wolfram Zimmermann	
13:20	Key Note Johann Bauersachs and Axel Haverich (GER) - Cardiologist's view on the current clinical practice for treating heart failure - Surgeon's view on the current clinical practice for treating heart failure / Organ care system
14:10	Gregor Warnecke (GER) Clinical heart transplantation: Current State, Limitations and Perspectives
14:30	Coffee Break
Session V continued Chairs: Robert Zweigerdt and Ulrich Martin	
15:00	Key Note Bruno Reichart (GER) Xenotransplantation: pig hearts for human heart replacement TBC
15:35	Heiner Niemann (GER) Gene editing and porcine pluripotent stem cells: Novel tools for the production of multi-transgenic pigs for xenotransplantation
16:00	Samir Sarikouch (GER) Challenges in choosing heart failure patients for first-in-man iPS cell-therapies
16:25	Thomas Thum (GER) Supportive strategies to foster cardiac hPS cell therapies
16:50	Meeting closing and poster prize winner announcement Robert Zweigerdt and Ulrich Martin