



## Genome Editing for Gene and Cell Therapy, a Herrenhausen Symposium

Herrenhausen Palace Conference Center Hanover, Germany November 3-4, 2016

## **Draft Conference Program**

Thursday.	November.	3
illui Juuy,	INDVCIIIDCI .	_

,,		
	7:30 a.m.	Registration
	8:55 a.m.	Welcome Remarks
Keynote		
	9:00 a.m.	Translating Genome Editing to the Clinic: Strategies, Considerations and Constraints Toni Cathomen, Universität Klinkum Freiburg, Germany
Session 1	Genome editing	
	10:00 a.m.	Defining, Altering, and Improving the Specificities of CRISPR-Cas Nucleases Benjamin Kleinstiver, Harvard Medical School, USA
	10:30 a.m.	Manipulating the Mitochondrial Genome with Designer Nucleases Carlos Moraes, University of Miami Miller School of Medicine, USA
	11:00 a.m.	Coffee break
	11:30 a.m.	The Mechanism of Cas9/CRISPR Cleavase-, Nickase-, and Dual Nickase-Mediated Genome Editing in Human Somatic Cells Eric Hendrickson, University of Minnesota, USA
	12:00 p.m.	From Surgery to Genome Surgery Frank Buchholz, Technische Universitäten Dresden, Germany
	12:30 p.m.	Lunch
Panel		
	2:00 p.m.	Panel discussion on therapeutics
Session 2	Cell therapy	(relevant to ex vivo applications)
	3:00 p.m.	Genome Editing of Hematopoietic Stem and Progenitor Cells Matthew Porteus, Stanford University School of Medicine, USA
	3:30 p.m.	CAR T Cell Therapy: The CD19 Paradigm and Beyond Isabelle Rivière, Memorial Sloan Kettering Cancer Center, USA





Thursday, November 3 cont.

4:00 p.m.	Coffee break
4:30 p.m.	Genome Editing for the Hemoglobin Disorders Daniel Bauer, Harvard Medical School, USA
5:00 p.m.	Regulatory Considerations for Clinical Translation Natalie Mount, Cell and Gene Therapy Catapult, UK
5:30 p.m.	Short talk
5:45 p.m.	Conference dinner
7:30 p.m.	Close of day

Friday, November 4

Keynote		
	9:00 a.m.	Carl June, University of Pennsylvania, USA
Session 3	Delivery in general	
	10:00 a.m.	Nucleic Acid Delivery Systems for RNA Therapy and Gene Editing Daniel Anderson, Massachusetts Institute of Technology, USA
	10:30 a.m.	Gene Editing In Vivo with Cas9 Ribonucleoprotein Complexed to Gold Nanoparticles Niren Murthy, University of California, Berkeley, USA
	11:00 a.m.	Coffee break
	11:30 a.m.	Therapeutic Genome Editing without the use of Nucleases Mark Kay, Stanford University School of Medicine, USA
	12:00 p.m.	Efficient In Vivo Liver-Directed and iPS-Based Ex Vivo Gene Editing Using CRISPR/Cas9 Thierry VandenDriessche, Vrije Universiteit Brussel, Belgium
	12:30 p.m.	Short talk
	12:45 p.m.	Lunch and Poster session
Session 4	Gene therap	by (relevant to <i>in vivo</i> editing)
	2:45 p.m.	AAV for Genome Editing of Liver Metabolic Diseases James Wilson, University of Pennsylvania, USA
	3:15 p.m.	Luigi Naldini, Ospedale San Rafaelle, Italy
	3:45 p.m.	AAV-Mediated Gene Therapy for Genetic Disease Katherine High, University of Pennsylvania, USA





## Friday, November 4 cont.

4:15 p.m. **Coffee break** 

Session 5	Biomedical applications	
	4:45 p.m.	Understanding Cancer Drivers Using Inducible In Vivo Genome Editing Lukas Dow, Weill Cornell Medical College, USA
	5:15 p.m.	A CRISPR Dropout Screen Identifies Genetic Vulnerabilities in Acute Myeloid Leukaemia Kosuke Yusa, Wellcome Trust Sanger Institute, UK
	5:45 p.m.	Short talk
	6:00 p.m.	Close of conference