

**Date: 17/01/2025**

**Venue: Historisches Kaufhaus Freiburg**

## **Program**

8:00 Uhr Check-in

8:30 – 9:00 Uhr **Welcome notes**

**Prof. Dr. Dr. h.c. F. Wenz**, Chief Medical Officer, Chairman of the Board of Directors, Medical Center - University of Freiburg

**Prof. Dr. L. Hein**, Dean of the Faculty of Medicine, University of Freiburg

**Dr. C. Dose**, Head, Division of University Medicine, Ministry of Science, Research & Arts, Baden-Württemberg

**Profs. T. Cathomen & T. Feuchtinger**, Center for Cell and Gene Therapy Freiburg

### **Session I: „Cell and gene therapy in hematology and immunology“**

**Chair: T. Cathomen**

09:00 – 09:15 Uhr Robert Zeiser (Freiburg)  
„Microglia activation after CAR T cell therapy“

09:15 – 09:30 Uhr Kristina Maas-Bauer (Freiburg)  
„Natural Killer T cell therapy – a double-edged sword?“

09:30 – 09:45 Uhr Semjon Willier (Freiburg)  
„CD28 directed CAR T cells for pediatric T-ALL“

09:45 – 10:00 Uhr Ralph Wäsch (Freiburg)  
„CAR T cell therapy in hematological malignancies“

10:00 – 10:15 Uhr Maike Hofmann (Freiburg)  
„T cell exhaustion and beyond – mechanisms of T cell adaptation in chronic viral hepatitis“

*10:15 Coffee Break*

### **Session II: „Cell and gene therapy in infectious and rare monogenic diseases“**

**Chair: R. Thimme**

10:45 – 11:30 Uhr Carsten Bönnemann (NIH, Bethesda, MD, USA)  
„AAV-mediated gene therapy in pediatric neuromuscular diseases - opportunities and challenges“

11:30 – 11:45 Uhr Janbernd Kirschner (Freiburg)  
„Real-world experience with gene therapy for spinal muscular atrophy“

11:45 – 12:00 Uhr Stephan Ehl (Freiburg)  
„Gene therapy for familial hemophagocytic syndromes: rationale and obstacles.”

12:00 – 12:15 Uhr Theresa Käuferle (Freiburg)  
„Self-empowerment: Adoptive transfer of virus-specific T cells”

*12:15 Lunch break*

**Session III: „ Cell and gene therapy: developments in oncology“**  
**Chair: J. Duyster**

13:30 – 13:45 Uhr Tobias Feuchtinger (Freiburg)  
„Local interaction of acute leukemia and T cells”

13:45 – 14:00 Uhr Susana Minguet (Freiburg)  
„Cracking the TCR code for a new era of CAR T cells”

14:00 – 14:20 Uhr Lukas Jeker (Basel, CH)  
„Epitope engineered cells for malignant hematological disease”

14:20 – 14:40 Uhr Evelyn Ullrich (Frankfurt)  
„Engineered NK cells for immunotherapy: current status and future perspective”

*14:40 Coffee Break*

**Session IV: „ Challenges and novel concepts in cell and gene therapy“**  
**Chair: T. Feuchtinger**

15:15 – 16:00 Uhr Michel Sadelain (MSKCC, New York, NY, USA)  
„Breakthroughs in the development of chimeric antigen receptor T cell immunotherapy”

16:00 – 16:15 Uhr Toni Cathomen (Freiburg)  
„Ensuring safety in genome editing: detecting and mitigating off-target effects”

16:15 – 16:30 Uhr Claudio Mussolino (Freiburg)  
„Epigenome editing to shape CAR T cells with potentially beneficial features”

16:30 – 16:50 Uhr Ulrike Köhl (Leipzig)  
„CAR effector cells: Pushing the boundaries in cancer treatment by switching from viral to non-viral gene transfer”

16:50 – 17:05 Uhr Wolfgang Schamel (Freiburg)  
"Can optogenetics improve CAR T cell therapy?"

17:05 Uhr Outlook and farewell by  
T. Cathomen, T. Feuchtinger and T. Käuferle, Center for Cell and Gene Therapy  
Freiburg