

# PROGRAMME

## Saturday (16th)

- 08:00 – 15:00 Registration at **Heinrich-Pette-Institut** (Hamburg) and in Wilsede
- 16:30 – 16:40 Welcome Address – Boris Fehse & Carol Stocking
- 16:40 – 17:30 **SPECIAL LECTURE: Thomas A. Rando** (Stanford)  
Epigenetic mechanisms of stem cell aging and rejuvenation

<b>Session I: Stem Cells, Ageing, and Cancer</b>
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Chairs: N Drize and C Stocking
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- 17:30 – 17:55 **Lenhard Rudolph** (Ulm)  
Molecular mechanisms of stem cell aging
- 17:55 – 18:20 **Margaret Goodell** (Houston)  
Regulation of hematopoietic stem cells by DNA methylation
- 18:20 – 18:45 **Amanda Fisher** (London)  
Heterokaryon-based reprogramming of lymphocytes
- 18:45 – 19:10 **Keith Humphries** (Toronto)  
Meis1 as a key player in normal and leukemic stem cells
- 19:30 RECEPTION AND DINNER - Wilseder Hof

## Sunday (17th)

### Session II: Cancer – Immunotherapy and Surveillance

Chair: B Fehse and H v Boehmer

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| 09:00 – 09:25 | <b>Robert Hawkins</b> (Manchester)<br>Developing Engineered T cell therapy   |
| 09:25 – 09:50 | <b>Hans Stauss</b> (London)<br>Tuning the speed and avidity of T cell responses  |
| 09:50 – 10:15 | <b>Mirjam HM Heemskerk</b> (Leiden)<br>Strategies to isolate high affinity TCRs useful for TCR gene therapy of cancer  |
| 10:15 – 10:40 | <b>Philip Greenberg</b> (Seattle)<br>Treating leukemia with TCR-transduced T cells: Finding appropriate antigens to target and engineering T cells to be effective |
| 10:40 – 11:10 | COFFEE BREAK   |
| 11:10 – 11:35 | <b>Thomas Blankenstein</b> (Berlin)<br>Spontaneous and therapy-induced T cell responses to cancer  |
| 11:35 – 12:00 | <b>Richard Morgan</b> (Bethesda)<br>Adoptive immunotherapy for cancer using genetically engineered T cells   |
| 12:00 – 12:25 | <b>Haruo Sugiyama</b> (Osaka)<br>WT1 peptide immunotherapy for hematopoietic malignancies  |
| 12:25 – 12:45 | <b>Jürgen Ruland</b> (München)<br>Antigen receptor signaling and lymphomagenesis   |
| 12:45 – 14:00 | LUNCH  |

### Session III: Tumor Microenvironment and Metastasis

Chairs: H Kalthoff and A Zander

- 14:00 – 14:25      **Anthony Ho** (Heidelberg)  
Bone marrow microenvironment and leukemia stem cells
- 14:25 – 14:45      **Sonja Loges** (Hamburg) (short talk)  
Interaction of leukemia cells with bone marrow microenvironment -  
novel targets and mechanisms
- 14:45 – 15:10      **David Williams** (Boston)  
RhoH is critical for cell-microenvironment interactions in chronic  
lymphocytic leukemia in mice and humans
- 15:10 – 15:40      COFFEE BREAK
- 15:40 – 16:05      **Andreas Trumpp** (Heidelberg)  
Circulating metastasis-initiating cells in breast cancer
- 16:05 – 16:30      **Klaus Pantel** (Hamburg)  
Detection, biology and clinical relevance of disseminating cancer cells
- 16:30 – 16:55      **Wolf-Hervé Fridman** (Paris)  
The immune microenvironment of primary and metastatic human  
tumors
- 17:00 – 19:00      **Poster Session I**
- 19:00                DINNER AND MUSIC IN EMHOF

## Monday (18th)

### Session IV: Transcriptional Control of Cell Fate

Chair: K Welte and M de Bruijn

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| 09:00 – 09:25 | <b>Berthold Göttgens</b> (Cambridge)<br>Transcriptional control of blood stem and progenitor cells   |
| 09:25 – 09:50 | <b>Constanze Bonifer</b> (Birmingham)<br>Transcriptional programming of chromatin in t(8;21) AML   |
| 09:50 – 10:05 | <b>Nina Cabezas-Wallscheid</b> (Heidelberg)<br>Modeling the initiation and progression of human core binding factor acute leukemia in mice   |
| 10:05 – 10:30 | <b>Daniel Tenen</b> (Singapore)<br>Regulation of myeloid transcription factors and DNA methylation by noncoding RNAs                         |
| 10:30 – 10:55 | <b>Frank Rosenbauer</b> (Münster)<br>Chromatin control of dendritic cell commitment  |
| 10:55 – 11:20 | COFFEE BREAK   |
| 11:20 – 11:45 | <b>Cornelis Murre</b> (San Diego)<br>Global analysis of long-range genomic interactions in developing lymphocytes                            |
| 11:45 – 12:05 | <b>Sebastian Carotta</b> (Melbourne) (short talk)<br>PU.1 cooperates with IRF factors to prevent pre-B ALL formation                         |
| 12:05 – 12:30 | <b>Matthias Merkenschläger</b> (London)<br>Ikaros target genes in the context of B cell lineage specification and pre-B cell differentiation |
| 12:30 – 14:00 | LUNCH (Heidemuseum) & Poster viewing   |
| 14:00 – 15:30 | <b>Poster Session II</b>   |
| 15:30 – 16:00 | COFFEE BREAK   |

## Session V: Clinical Gene Therapy

Chairs: N Kröger and C Baum

- 16:00 – 16:25      **Gerard Wagemaker** (Rotterdam)  
Gene modified hematopoietic stem cells for the treatment of inherited disorders
- 16:25 – 16:45      **Christian Brendel** (Frankfurt) (short talk)  
Targeting strategies to improve gene therapy for the treatment of X-linked chronic granulomatous disease
- 16:45 – 17:10      **Bobby Gaspar** (London)  
Development of gene therapy for haemophagocytic lymphohistiocytosis (HLH) due to perforin deficiency
- 17:10 – 17:30      **Mary Collins** (London)  
Regulating dendritic cell signalling to improve vaccination
- 17:30 – 17:55      **Axel Schambach** (Hannover)  
“Factor-free” induced pluripotent stem cells for congenital neutropenia using an efficient and traceable vector
- 17:55 – 18:15      BREAK
- 18:15 – 19:00      **SPECIAL LECTURE: Rudolf Jaenisch** (Cambridge)  
iPS technology and disease research
- 19:00                DINNER AND MUSIC IN EMHOF

## Tuesday (19th)

### Session VI: Molecular Mechanisms of Lymphoma/Leukemia

Chairs: R Küppers and M Trepel

- 09:00 – 09:25      **Lou Staudt** (Bethesda)  
Therapeutic strategies in lymphoma based on oncogenic B receptor and MYD88 signaling
- 09:25 – 09:45      **Georg Lenz** (Berlin) (short talk)  
The I $\kappa$ B-like protein NFKBIZ regulates specific subsets of NF- $\kappa$ B target genes and is critical for survival of ABC DLBCL
- 09:45 – 10:05      **Marco Herling** (Köln) (short talk)  
Implications of leukemia / lymphoma associated TCL1 dysregulation in the context of milieu-derived signaling
- 10:05 – 10:25      **Stephan Mathas** (Berlin) (short talk)  
Identification of deregulated transcription factor networks in human lymphoma
- 10:25 – 10:50      COFFEE BREAK
- 10:50 – 11:15      **Riccardo Dalla-Favera** (New York)  
The genome of diffuse large B-cell lymphoma
- 11:15 – 11:40      **Harald von Boehmer** (Boston)  
Requirement for D cyclins in breast cancer and T-ALL maintenance
- 11:40 – 12:05      **Phil Koeffler** (Singapore)  
LNK: linking accelerator to the brake
- 12:05 – 12:20      **Ralf Küppers** (Essen)  
Opportunities for Young Scientists and Clinicians – Deutsche Krebshilfe
- 12:20 – 14:00      LUNCH (Heidemuseum)

## Session VII: Epigenetics and Reprogramming in Cancer

Chairs: C Schmitt and F Rosenbauer

- 14:00 – 14:25     **Man Mohan** (Kansas City)  
The COMPASS family of histone H3K4 methylases in development and disease
- 14:25 – 14:50     **Ari Melnick** (New York)  
Epigenetic basis of hematologic malignancies
- 14:50 – 15:15     **Carsten Müller-Tidow** (Münster)  
The contribution of DNA methylation to leukemia initiation and progression
- 15:15 – 15:40     **Clemens A Schmitt** (Berlin)  
Senescence-related reprogramming promotes cancer stemness
- 15:40 – 16:10     COFFEE BREAK

## Session VIII: Stem Cell Regulation

Chairs: K Humphries and D Tenen

- 16:10 – 16:35     **Anne Brunet** (Stanford)  
Neural stem cell aging
- 16:35 – 17:00     **Emmanuelle Passegué** (San Francisco)  
FoxO3a Directs a protective autophagy program in hematopoietic stem cells
- 17:00 – 17:25     **Tsvee Lapidot** (Rehovot)  
The coagulation factor thrombin regulates hematopoietic stem cell egress and mobilization via PAR-1 and CXCR4 activation, SDF-1 secretion by bone marrow stromal cells and nitric oxide mediated EPCR shedding
- 17:25 – 17:50     **Linheng Li** (Kansas City)  
Signaling and epigenetic regulation of hematopoietic stem cells
- 17:50 – 18:15     **Connie Eaves** (Vancouver)  
Regulation of hematopoietic stem cell heterogeneity
- 19:00                FAREWELL DINNER in Heidemuseum

**Wednesday (20th)**

Breakfast starting at 7:00 h

Bustransfer from Undeloh to Hamburg: at 7:00, 9:00 and 11:00 h

**End of Wilsede Meeting XIX.**