



**Programme / Abstracts
XXIII. Wilsede meeting on**

**MODERN TRENDS IN
HUMAN LEUKAEMIA AND CANCER**

June 24 - 27, 2023 · Wilsede, Germany

In honourable memory of Rolf Neth

We cordially thank for supporting the Wilsede Meeting



Welcome to the XXIII. Wilsede meeting on »Modern Trends in Human Leukaemia and Cancer«

After the COVID-19 caused break, we now proudly announce the XXIII. Wilsede meeting “Modern Trends in Human Leukaemia and Cancer”. It will be a very special one, since we celebrate, we are glad to keeping up the 50 years of Wilsede meetings this year! Founded by Rolf Neth and Bob Gallo in 1973, the Wilsede meeting has become an internationally renowned event in the Lüneburg Heath, which provides the ideal setting for scientific exchange and stimulating discussions between leading experts and junior scientists.

Given the exciting and rapid development in Haematology, Oncology and Cell Therapy and the recent breakthroughs in those fields, immunotherapy as well as gene therapy will be major focuses of this year’s meeting. The impressive progress made in these very different areas will be presented by international experts in their respective fields, but also junior scientists whose contributions have been selected based on submitted abstracts. We thank all speakers and chairs for donating time and sharing results thus supporting continuation of this unique platform of scientific exchange.

We would like to thank our main sponsor, the Mildred Scheel Foundation of the Deutsche Krebshilfe e. V. (German Cancer Aid) and the Deutsche Forschungsgemeinschaft DFG for their sustained and generous support of our meeting. Moreover, we are very happy that a traditional supporter of the Wilsede meetings – Blood Cancer UK (previously Leukaemia & Lymphoma Research) is also back on board.

Join us – to enjoy the lectures, poster sessions, to discuss and exchange new ideas and scientific concepts in this marvellous and inspiring environment!

Welcome to Wilsede!

Prof. Dr rer. nat. Boris Fehse

Prof. Dr med. Dr h.c. Nicolaus Kröger

The Local Organising Committee

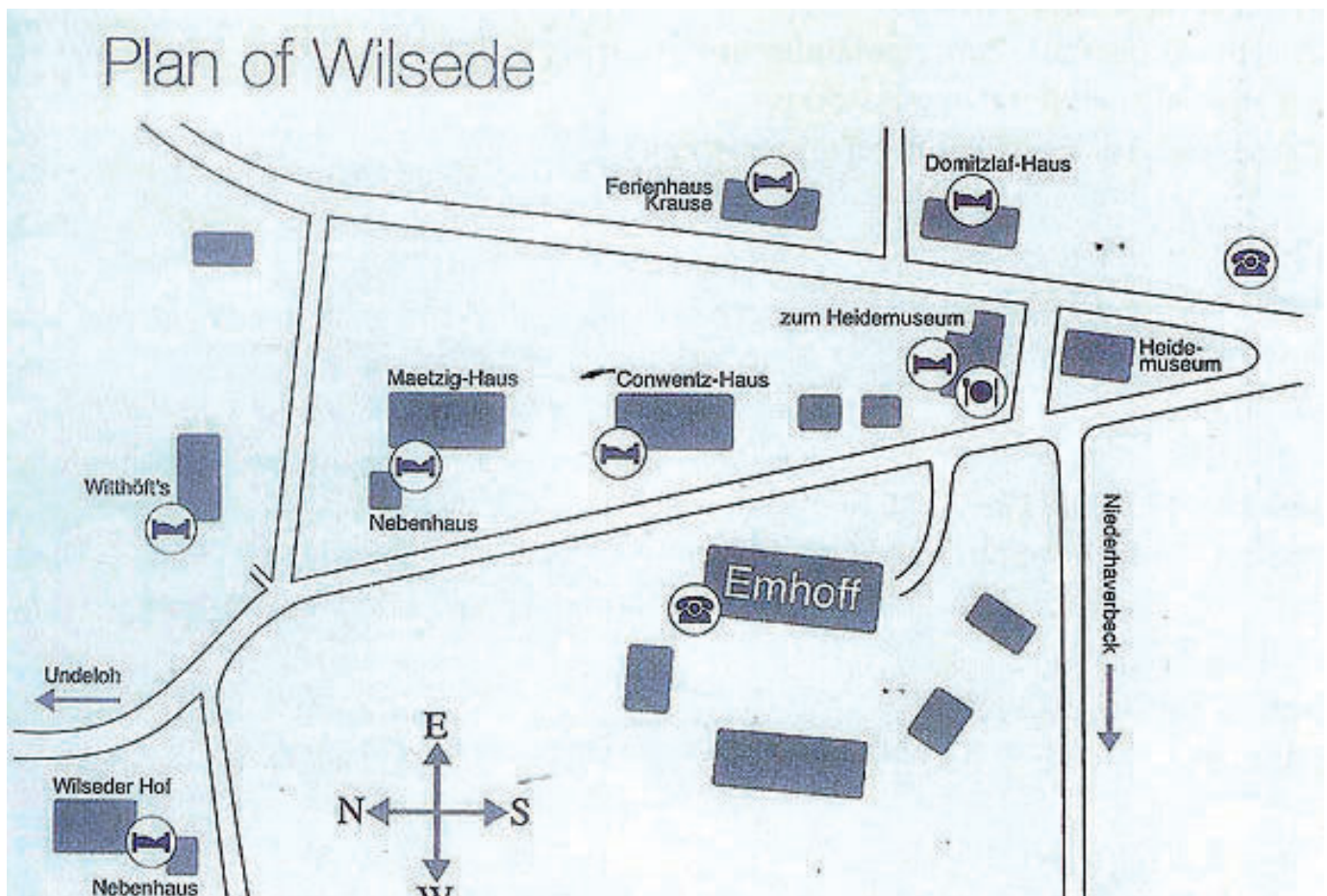
Facts

Wilsede

... is located in the heart of the Lüneburger Heide, one of the most magnificent and oldest national parks in Europe. The conservation society „Naturschutzpark Verein“ (NVP) was founded in 1909 to preserve this unique moorland between Hamburg and Hannover, including the small village of Wilsede, whose existence can be traced back to 1287. Located within the nature reserve, where neither cars nor motorized vehicles are allowed, Wilsede can only be reached by foot, horse carriage, or bicycle. It has been the site of the “Wilsede Meetings: Modern Trends in Human Leukemia” since 1973, gathering Hematologists and Oncologists from around the world.

A history lesson: »De Emhoff«

... was built in 1609 by the Ernmann family, who lived there for more than 300 years. In 1960 the meanwhile dilapidated building was to be pulled down. With much effort, the NVP together with the Lower Saxony Authority for Preservation of Historical Monuments succeeded to place the building under the Preservation Act. Under the direction of the architect Prof. Maetzig, about one third of the building was reconstructed using the original techniques, e.g. grooved planks instead of nails. The former hallway, cowsheds, and stables were rebuilt into a large meeting room, whereas the “Dönz”, the former living room, is today the kitchen. The lamps were chosen to remind visitors of the old pitch torches. The architectural style of the Emhoff is thought to be the oldest of the moorland region and is especially typical for the southern part of this region. Buildings of this kind have almost completely disappeared due to disrepair and deterioration, making Emhoff doubly precious. The charming surroundings of the meeting site create an informal and relaxed atmosphere, inspiring communication at every opportunity, for which the Wilsede meetings are known.



Organisation and Support	4
General Information	5 - 6
General Information Poster	7
Programme	8
Saturday, June 24, 2023	9
Sunday, June 25, 2023	10 - 11
Monday, June 26, 2023	12 - 13
Tuesday, June 27, 2023	14
Speaker abstracts	15
Session I Myeloid neoplasia	17 - 19
Session II Stem cells in homeostasis and disease I	21 - 24
Session III Immunotherapy I	25 - 29
Session IV CANCEROMICS and new targets	30 - 33
Session V Immunotherapy II – CARevolution in the clinics	35 - 38
Session VI Epigenetics and cancer	39 - 40
Session VII Gene therapy	42 - 45
Session VIII HSC biology & transplantation	46 - 49
Session IX Leukaemia & lymphoma	50 - 52
Session X Stem cells in homeostasis and disease II	53 - 55
Poster abstracts	56
Biology of solid tumours & leukaemia	58 - 74
Gene Therapy and Genome editing	75 - 79
OMICs & Targeted therapies	80 - 83
Immune and Cell therapy	84 - 88
Others	89 - 95
List of speakers	96 - 99

Organization and Support

Scientific and Organizing Committee

Prof. Dr med. Francis Ayuk

University Medical Centre Hamburg-Eppendorf

Dr med. Carolina Berger

University Medical Centre Hamburg-Eppendorf

Dr rer. nat. Maïke Buchner

Max-Eder-Groupleader (Deutsche Krebshilfe)

Technical University of Munich

Dr med. Anjali Cremer

Max-Eder-Groupleader (Deutsche Krebshilfe)

University Hospital Frankfurt am Main

Prof. Dr rer. nat. Boris Fehse

University Medical Centre Hamburg-Eppendorf

Dr rer. nat. Stefan Horn

University Medical Centre Hamburg-Eppendorf

Dr med. Raphael Koch

Max-Eder-Groupleader (Deutsche Krebshilfe)

Medical Faculty of Göttingen

Prof. Dr med. Dr h. c. Nicolaus Kröger

University Medical Centre Hamburg-Eppendorf

PD Dr rer. nat. Kristoffer Riecken

University Medical Centre Hamburg-Eppendorf

PD Dr rer. nat. Jasmin Wellbrock

University Medical Centre Hamburg-Eppendorf

Local Organizing committee and Scientific Contact

Prof. Dr Boris Fehse

Prof. Dr Dr Nicolaus Kröger

University Medical Centre Hamburg-Eppendorf

Stem Cell Transplantation

Research Department Cell and Gene Therapy

Martinistrasse 52, Campus Forschung (N27)

20246 Hamburg

Phone: +49 40 741 055 518

E-Mail: fehse@uke.de

Website: www.uke.de

Meeting Office | Contact

CSi Hamburg GmbH

Conferences | Symposia | Incentives

Goernestrasse 30 · 20249 Hamburg, Germany

Phone: +49 40 307 703 00

Facsimile +49 40 307 703 01

E-Mail: wilsede-meeting@csihamburg.de

Website: www.csihamburg.de

Main-Sponsor

Deutsche Krebshilfe e.V.

Co-Sponsors

Deutsche Forschungsgemeinschaft (DFG)

University Medical Center Hamburg-Eppendorf (UKE)

Blood cancer UK

DG-GT Deutsche Gesellschaft für Gentherapie e.V.

On-site Registration

June 24, 2023	
Registration at University Medical Centre Hamburg-Eppendorf (UKE), Campus Lehre, N55/ Wilsede	09:00 to 13:00
June 25, 2023	09:00 to 19:00
June 26, 2023	09:00 to 19:00
June 27, 2023	09:00 to 12:00

Meeting point

University Medical Centre Hamburg-Eppendorf (UKE)
Campus Lehre | Building N55
Martinistrasse 52 | 20251 Hamburg
(via main entrance or back entrance at
Süderfeldstrasse)

From 09:00

Registration and pick up of your meeting documents

Bus transfer at

10:00, 12:00 and 13:00 to the National Park
(entrance Undeloh)
For transport from **Undeloh** to **Wilsede**,
horse carriages will be departing,
or please feel free to get a bike.

Horse Carriage (Timetable)

June 24, 2023 (Arrival)

11:30	from Undeloh	to Wilsede
13:30	from Undeloh	to Wilsede
14:30	from Undeloh	to Wilsede
22:30	to Wilsede	from Undeloh

June 25 & 26, 2023

08:00	from Undeloh	to Wilsede
22:30	from Wilsede	to Undeloh

June 27, 2023 (Departure)

08:00	from Undeloh	to Wilsede
12:30/13:00	from Wilsede	to Undeloh

Bicycles («rent-a-bike«)

Undeloh: »Hotel Heiderose«
Wilsede: »Wilseder Hof«

Departure (June 27, 2023)

Bus transfer from parking lot in Undeloh to Hamburg
airport and/or central station:

Departures 13:00/13:30

Subject to change without notice!

! Undeloh: parking lot near »Undeloher Hof«

General Information

Wilsede

Zum Heidemuseum | 20646 Wilsede

Phone: +49 4175-217

Contact: Klaus Parpart

- Conwentz-Haus (Guesthouse)
- Domitzlaff-Haus (Guesthouse)
- Maetzig-Haus/Nebenhaus (Guesthouse)

Wilseder Hof | 29646 Wilsede

Phone: +49 4175-311

Contact: Stefan Wischhof

Undeloh

Ferienhof Heins | 21274 Undeloh

Phone: +49 4189-541

Contact: Constance Heins

Hotel Heiderose | 21274 Undeloh

Phone: +49 4189-311

Contact: Ullrich Wischhof

Landhaus Heideschmiede | 21274 Undeloh

Phone: +49 4189-81310

Contact: Martina Wischhof

Undeloher Hof | 21274 Undeloh

Phone: +49 4189-81 89 10

Contact: Inge Brunkhorst

Breakfast

June 25 - 27, 2023

Guests accommodated in

Wilsede: at Gasthof »Zum Heidemuseum«
and Ferienhof Heins (starting at 7:00)

Undeloh: at their hotel or guesthouse

Welcome Reception and Dinner

Saturday, June 24, 2023, 19:30

Wilseder Hof

Lunch

Gasthof »Zum Heidemuseum«

Sunday, June 25, 2023 12:55-14:15

Monday, June 26, 2023 12:30-13:30

Tuesday, June 27, 2023 packed Lunch

Barbecue/Farewell Dinner

»Emhoff«

Sunday, June 25 and

Monday, June 26, 2023 19:00

Poster Session (with presenting authors)

All poster presenters are called to present their contribution in a 4-minute poster fast-forward presentation. Please arrive punctually to your session. There will be two posters rotations. Posters will be carefully arranged according to thematic clusters. Therefore you must use the dedicated poster board for your own poster, labelled with your Final Poster Number, sent to you by E-Mail in advance and listed in the rotation schedule.

Poster Session I

Sunday, June 25, 2023 | 17:00-19:00

Biology of solid tumours & leukaemia

#

S-I-01 - S-I-17

Poster Session II

Monday, June 26, 2023 | 17:00-19:00

Gene Therapy and Genome editing

#

M-II-01 – M-II-05

OMICs & Targeted therapies

#

M-III-01 – M-III-04

Immune and Cell therapy

#

M-IV-01 – M-IV-05

Others

#

M-V-01 – M-V-07

M=Monday S=Sunday Roman numerals = Topic

Poster Presentation Guideline

A Poster session is a graphic presentation of authors' research. The authors illustrate their findings by displaying graphs, photos, diagrams and a small amount of text on the poster boards. The opportunity to present research or clinical results will be provided in two poster sessions. You are expected to bring your own printed posters and hang them yourselves. Posters will be displayed in two rotations and will be grouped by sections.

The posters will be mounted on movable walls on stands provided by the organizers in the:

Conwentz- & Meatzig-Haus

Poster Size

Portrait formatted posters in DIN A0 size (118.9 cm x 84.1 cm) are recommended. The size of your printed poster should not exceed 145 cm in height and 95 cm in width.

Poster Hanging

On the evening or morning before the session, but need to be setup not later than 1 hour, before the start of the session.

Posters have to be printed on paper. Affix your poster on the poster panel marked with your number. Further assistance and adhesive material will be available at the 'poster help desk' near the poster exhibition space. Affix your poster on the poster panel marked with your number. Please only use the provided adhesive material! No audiovisual equipment is permitted for poster presentations.

Programme

June 24 - 27, 2023



Saturday | June 24, 2023

09:00 - 13:00	Registration at University Medical Centre Hamburg-Eppendorf (UKE), Campus Lehre, N55/ Wilsede	
16:30 - 16:40	Welcome address Boris Fehse & Nicolaus Kröger, Hamburg - DE	
16:40 - 17:55	Session I: Myeloid neoplasia Chair: Nicolaus Kröger, Hamburg - DE	
16:40 - 17:05	Detangling the fibrosis-driving cross-talk of hermatopoetic cells and their regulating microenvironment in MPN Rebekka Schneider-Kramann, Aachen - DE	Speaker 1
17:05 - 17:30	Deconvoluting microenvironmental interactions for improved prognosis and therapy response in MPN Simon Mendez-Ferrer, Cambridge - UK	Speaker 2
17:30 - 17:45	Targeting metabolic dependencies in myeloproliferative neoplasm (short talk) Nageswara Rao Tata, St. Gallen - SUI	Speaker 3
18:00 - 18:45	Special Lecture Mapping complex organs using single-cell genomics Chair: Boris Fehse, Hamburg - DE Rafael Kramann, Aachen - DE	Speaker 4
19:30	Welcome Reception and Dinner Wilseder Hof	

Programme

Sunday | June 25, 2023

Sunday | June 25, 2023

09:00 - 10:30	Session II: Stem cells in homeostasis and disease I Chairs: Rebekka Schneider-Kramann, Aachen - DE; Ulrich G. Steidl, New York - USA	
09:00 - 09:25	Impact of Hypomethylating Agents on Mutant HSCs and Blood Production in MDS and CMML John Pimanda, Sidney - AUS	Speaker 5
09:25 - 09:50	The dynamic bone marrow response to inflammatory stress Marieke Essers, Heidelberg - DE	Speaker 6
09:50 - 10:15	Investigating the clonal dynamics underpinning normal and pre-leukaemic haematopoiesis under homeostasis and inflammation Dominique Bonnet, London - UK	Speaker 7
10:15 - 10:30	Notch signalling mediates metabolic changes in AML-associated mesenchymal stem cells (short talk) Helal Ahmed, Lübeck & Münster - DE	Speaker 8
10:30 - 11:00	Break	
11:00 - 12:55	Session III: Immunotherapy I Chairs: Catherine Bollard, Washington DC - USA; Christos Georgiadis, London - UK	
11:00 - 11:25	CAR T cell therapy becomes CHIC: "Cytokine Help Intensified CAR" T cells Hinrich Abken, Regensburg - DE	Speaker 9
11:25 - 11:50	T cell therapies for lymphoma: Broadening applicability [DG-GT Keynote lecture] Catherine Bollard, Washington DC - USA	Speaker 10
11:50 - 12:15	Home brewed CAR-T cells - Update of the HD-CAR-1 trial Michael Schmitt, Heidelberg - DE	Speaker 11
12:15 - 12:30	CAR-T Cells in Myeloma Francis Ayuk, Hamburg - DE	Speaker 12
12:40 - 12:55	Single and Combinational Multiplex Base-Edited 'Universal' CAR T Cells in a Humanised Model of Primary CD7+CD33+ AML (short talk) Arnold Kloos, Hannover - DE	Speaker 13
12:55 - 14:15	Lunch (Heidemuseum) & Poster viewing	

Sunday | June 25, 2023

14:15 - 15:45	Session IV: CANCEROMICS and new targets Chairs: Raphael Koch, Göttingen - DE; John Pimanda, Sidney - AUS	
14:15 - 14:40	Hunting for the oncogenes on chromosome 21 Jan-Henning Klusmann, Frankfurt a.M. - DE	Speaker 14
14:40 - 15:05	The antigen receptor as target for cellular therapies in lymphomas Mascha Binder, Basel - SUI	Speaker 15
15:05 - 15:30	TCL1 and active RANK cooperate to induce multiple myeloma in mice Maike Buchner, Munich - DE (Max-Eder Programme)	Speaker 16
15:30 - 15:45	A20 haploinsufficiency disturbs immune homeostasis and drives the malignant transformation of lymphocytes with permissive antigen receptors (short talk) Christoph Schultheiß, Halle/S. - DE	Speaker 17
15:45 - 16:15	Break	
16:15 - 17:00	Special Lecture Gene therapy for a small but sound goal: the inner ear Chairs: Carol Stocking, Hamburg - DE; Axel R. Zander, Potsdam - DE; Axel Schambach, Hannover - DE	Speaker 18
17:00 - 19:00	POSTER SESSION I (Biology of solid tumours & leukaemia)	
19:00	Barbecue „Emhoff“	

Programme

Monday | June 26, 2023

Monday June 26, 2023		
09:00 - 10:30	Session V: Immunotherapy II – CAREvolution in the clinics Chairs: Hinrich Abken, Regensburg - DE; Francis Ayuk, Hamburg - DE	
09:00 - 09:25	CLDN6 CAR-T cell therapy of relapsed/refractory solid tumors ± a CLDN6-encoding mRNA vaccine: Dose escalation data from the BNT211-01 phase 1 trial Liane Preußner, Mainz - DE	Speaker 19
09:25 - 09:50	Base-Edited 'universal' CAR7 T Cells for relapsed T-cell Acute Lymphoblastic Leukaemia Christos Georgiadis, London - UK	Speaker 20
09:50 - 10:15	CAR-T cells for the treatment of B-cell mediated autoimmune diseases Andreas Mackensen, Erlangen - DE	Speaker 21
10:15 - 10:30	Role of CD39 and TIGIT in proliferation, activation and cytotoxicity of CD8+ T cells in ovarian cancer (short talk) Marius Witt, Hamburg - DE	Speaker 22
10:30 - 11:00	Break	
11:00 - 12:30	Session VI: Epigenetics and cancer Chairs: Maike Buchner, Munich - DE; Daniel G. Tenen, Singapore - SG	
11:00 - 11:25	Plasticity induction in AML and lung cancer by ribosomal RNA modification patterns Carsten Müller-Tidow, Heidelberg - DE	Speaker 23
11:25 - 11:50	Smiley, a novel DNA methylation sensitive element regulating gene expression in tumor suppressors and oncogenes Dan Tenen, Singapore - SG	Speaker 24
11:50 - 12:15	Deep learning for Hi-C reveals coherence between enhancer states and chromosome conformation in T cell differentiation Matthias Merkenschlager, London - UK	Speaker 25
12:15 - 12:30	Career Development Programme of German Cancer Aid Matthias Serwe, Bonn - DE	Speaker 26
12:30 - 13:30	Lunch (Heidemuseum) & Poster viewing	

Monday | June 26, 2023

13:30 - 15:30	Session VII: Gene therapy Chairs: Boris Fehse, Hamburg - DE; Andreas Mackensen, Erlangen - DE	
13:30 - 13:55	Gene therapy for hematopoietic inherited disorders: twenty years of progress Marina Cavazanna, Paris - FR	Speaker 27
13:55 - 14:20	HSC gene editing in macaques: assessing risks and creating disease models Cynthia Dunbar, Washington DC - USA	Speaker 28
14:20 - 14:35	Long term lineage commitment is modulated by the underlying disease in hematopoietic stem cell gene therapy patients (short talk) Eugenio Montini, Milano - IT	Speaker 29
14:35 - 14:50	Advancing the translation of CAR-T cell therapies for HIV-positive patients (short talk) Lea Isabell Schwarze, Hamburg - DE	Speaker 30
14:50 - 15:05	Intrathymic AAV delivery results in therapeutic site-specific integration at TCR loci (short talk) Daniela Cesana, Milano - IT	Speaker 31
15:05 - 15:30	Break	
15:30 - 17:00	Session VIII: HSC biology & transplantation Chairs: Ruud Delwel, Rotterdam - NL; Cynthia Dunbar, Washington DC - USA	
15:30 - 15:55	Pre-leukemia bone marrow failure syndrome – from understanding the mechanisms to advanced therapies Julia Skokowa, Tübingen - DE	Speaker 32
15:55 - 16:20	A HOXB4-initiated and -dependent myeloid leukaemia: implications for origin and targeted cure of clonal proliferative disease Norman Iscove, Toronto - CAN	Speaker 33
16:20 - 16:45	Functional heterogeneity of leukemia stem cells in vivo Irmela Jeremias, Munich - DE	Speaker 34
16:45 - 17:00	CRISPR-based transcriptional haematopoietic stem cell editing for enhanced anti-leukaemic graft function (short talk) Franziska Baatz, Hannover - DE	Speaker 35
17:00 - 19:00	POSTER SESSION II (Gene and Immunotherapy, OMICs & Targeted therapies, Others)	
19:00	Farewell Barbecue – „Emhoff“	

Programme

Tuesday | June 27, 2023

Tuesday | June 27, 2023

09:00 - 10:05	Session IX: Leukaemia & lymphoma Chairs: Carsten Müller-Tidow, Heidelberg - DE; Britta Will, New York - USA	
09:00 - 09:25	Identification and targeting of oncogenic transcriptional networks in MLLr B-cell acute lymphoblastic leukaemia Anjali Cremer, Frankfurt a.M. - DE (Max-Eder Programme)	Speaker 36
09:25 - 09:50	Understanding and Targeting Transcription Factor Dynamics in Normal and Malignant Haematopoiesis Ulrich G. Steidl, New York - USA	Speaker 37
09:50 - 10:05	Targeting functional dependencies in T-cell lymphoma Raphael Koch, Göttingen - DE (Max-Eder Programme)	Speaker 38
10:05 - 10:30	Break	
10:30 - 12:00	Session X: Stem cells in homeostasis and disease II Chairs: Anjali Cremer, Frankfurt a.M. - DE; Julia Skokowa, Tübingen - DE	
10:30 - 10:55	How to switch off <i>Evi1</i> enhancers in AML Ruud Delwel, Rotterdam - NL	Speaker 39
10:55 - 11:10	AML-derived extracellular vesicles (EV) contains DNA-protein complex that alter bone marrow mesenchymal stem cells (BM-MSC) by inducing non-mutational dysfunction of p53 Basant Kumar Thakur, Essen - DE	Speaker 40
11:10 - 11:35	An iron rheostat controls hematopoietic stem cell function Britta Will, New York - USA	Speaker 41
11:35 - 11:50	Closing remarks	
12:00	Departure (packed Lunch)	

We thank you for your active participation and wish you a pleasant and safe trip home.
Hope to see you again for the Wilsede Meeting in June 2025!

