



LION

LEIPZIG
IMMUNE ONCOLOGY
CONFERENCE
2023

Leipzig, Germany
November 8–9, 2023

PROGRAM

Organized by



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GENERAL INFORMATION

VENUE

Fraunhofer Institute for Cell Therapy and Immunology
Perlickstraße 1, 04103 Leipzig

REGISTRATION COUNTER

Opening hours

Wednesday, November 8, 2023: 9:00 am – 6:00 pm

Thursday, November 9, 2023: 9:00 am – 2:30 pm

Contact

Email: tbaehr@eventlab.org
kbornschein@eventlab.org
Phone: +49 341 308884-89 or -82

USEFUL CONTACTS

Leipzig taxis: +49 341 4884
www.taxi4884.de
City Taxi Leipzig: +49 341 2222 4444

WIFI

WiFi is available throughout the building. Look out for the access code.

MEDIA CHECK

Please bring your presentation on a USB stick to the technical support in the lecture room at least 15 minutes before the session. Please note that the presentation must be provided in a Windows / MS Office compatible format.

POSTER SESSIONS

Don't miss our poster sessions on Wednesday, 3:15-4:15 pm and Thursday, 11:00 am – 12:15 pm.
Location: 1st floor

Please drop off your poster at the registration desk. We will take care of the mounting.

Please remove your poster not later than 1:30 pm on Thursday, November 9. Posters that are not removed will be disposed at the end of the conference.

GET-TOGETHER

We are happy to welcome you to the get-together and enjoying a great evening with all participants. You will then also have time to have good talks with the supporters.

Delicious food and drinks will await you as well.

Date: Wednesday, November 8, 2023

Time: From 6:30 pm

GENERAL INFORMATION

SCIENTIFIC ORGANIZING COMMITTEE

Köhl, Ulrike (Conference president)

Fraunhofer Institute for Cell Therapy and Immunology
/ University Medicine Leipzig, Leipzig, Germany

Lordick, Florian (Conference president)

University Medicine Leipzig, Leipzig, Germany

Platzbecker, Uwe (Conference president)

University Medicine Leipzig, Leipzig, Germany

Blache, Ulrich

Fraunhofer Institute for Cell Therapy and Immunology

Büning, Hildegard

Hannover Medical School (MHH)

Fricke, Stephan

Fraunhofer Institute for Cell Therapy and Immunology

Hacker, Ulrich

University Medicine Leipzig

Herling, Marco

University Medicine Leipzig

Tretbar, Sandy

Fraunhofer Institute for Cell Therapy and Immunology

Vucinic, Vladan

University Medicine Leipzig

KEYNOTE SPEAKERS

André, Thierry

Hôpital Saint-Antoine, Paris, France

Buchholz, Frank

Dresden University of Technology, Dresden, Germany

Kuball, Jürgen

University Medical Center Utrecht, Utrecht, The Netherlands

Ledergerber, Dorothea

Tigen Pharma, Lausanne, Switzerland

Mackensen, Andreas

University Hospital Erlangen, Erlangen, Germany

Mielke, Stephan

Karolinska Institutet and University Hospital,
Karolinska CCC, Stockholm, Sweden

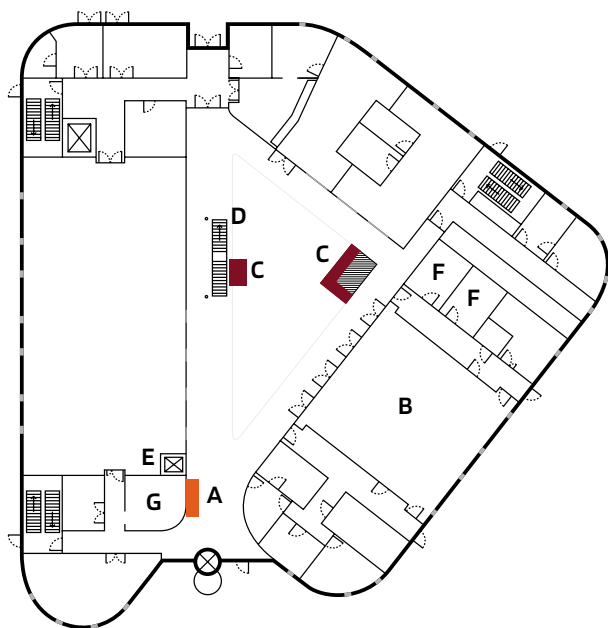
Pichon, Chantal

French National Institute of Health and Medical
Research (Inserm) & University of Orléans, Orléans,
France

Sclafani, Francesco

Jules Bordet Institute, Brussels, Belgium

SITE PLAN



Ground floor

- A – Registration
- B – Lecture hall
- C – Catering
- D – Stairs
- E – Lift
- F – Restrooms
- G – Cloakroom

First floor

The poster exhibition will take place on the 1st floor.

PROGRAM

WEDNESDAY, NOVEMBER 8, 2023

10:15–
10:30 am

Welcome

10:30 am –
12:00 pm

Session I

Chairs: Köhl, Ulrike & Fricke, Stephan

SWECARNET: Implementation of CAR T cells in Sweden's real-world

 **Keynote** Mielke, Stephan (Karolinska Institutet and University Hospital, Karolinska CCC, Stockholm, Sweden)

CAR T therapy for systemic lupus erythematosus

 **Keynote** Mackensen, Andreas (University Hospital Erlangen, Erlangen, Germany)

Single-molecule genome sequencing elucidates genomic variants after viral transduction in CAR-T cells

Lischer, Christopher

12:00–
12:45 pm

Break

12:45–
1:30 pm

Symposium I

More information on page 18.

PROGRAM

WEDNESDAY, NOVEMBER 8, 2023

1:30–
1:45 pm

Break

1:45–
3:15 pm

Session II

Chairs: Platzbecker, Uwe &
Schmiedel, Dominik

Tumor infiltrating lymphocytes for cancer immunotherapy

 **Keynote** Ledergerber, Dorothea
(Tigen Pharma, Lausanne, Switzerland)

Empowering NK cell immunotherapy against Multiple Myeloma: CAR engineering and receptor knockdown for enhanced specificity and NK cell survival

Schindler, Katharina

Using the Jurkat reporter T cell line for evaluating the functionality of Novel Chimeric Antigen Receptors

Jahan, Farhana

KoRV-pseudotyping of lentiviruses enables fast and streamlined generation of engineered NK cells for immunotherapy

Renner, Alexander

3:15–
4:15 pm

Poster session I

Chairs: Köhl, Ulrike & Hudecek, Michael

List of all posters on page 14.

4:15–
5:00 pm

Symposium II

More information on page 19.

5:00–
6:30 pm

Session III

Chairs: Lordick, Florian & Hacker, Ulrich

Neoadjuvant immunotherapy in colorectal cancer

 **Keynote** Sclafani, Francesco (Jules
Bordet Institute, Brussels, Belgium)

MSI gastrointestinal cancer – a different tumor entity

 **Keynote** André, Thierry (Hôpital
Saint-Antoine, Paris, France)

 Virtual

6:30 pm

Get-together

PROGRAM

THURSDAY, NOVEMBER 9, 2023

9:30–
10:30 am

Session IV

Chairs: Köhl, Ulrike & Blache, Ulrich

**Cancer immune therapies inspired by
Gamma Delta T cells and their receptors**

 **Keynote** Kuball, Jürgen (University
Medical Center Utrecht, Utrecht, The
Netherlands)

**Novel-antigen identification in uveal
melanoma harboring spliceosome
mutations as a step towards cancer
immunotherapy**

Güse, Esther

**Zebrafish as a novel in vivo model to
assess CAR-NK cell efficacy against
metastatic breast cancer**

Murali Shankar, Nivedha

10:30–
11:00 am

Break

11:00 am –
12:15 pm

Poster session II

Chairs: Lordick, Florian &
Schmiedel, Dominik

List of all posters on page 14.

12:15–
1:00 pm

Break

1:00–
2:30 pm

Session V

Chairs: Engeland, Christine &
Tretbar, Sandy

Genome editing in cancer research

 **Keynote** Buchholz, Frank (Dresden
University of Technology, Dresden,
Germany)

Non-viral gene transfer for cancer immunotherapy

 **Keynote** Pichon, Chantal (French
National Institute of Health and Medical
Research (Inserm) & University of
Orléans, Orléans, France)

Multi-step engineering of gene-edited CAR T cells using a novel RNA-LNP platform

Geczy, Reka

POSTERS

Poster session I

Poster session I will take place on Wednesday,
November 8, 2023, 3:15–4:15 pm.

**P1-01 Gene signatures of human tissue cultures
reveal insights into macrophage plasticity
after PD-1 inhibition**

Hoang, Ngoc Anh

**P1-02 Durable remission of a secondary lymphoma
of central nervous system after treatment
with chimeric antigen receptor (CAR) T-cells –
a case presentation**

Goldman-Mazur, Sarah

**P1-03 Transduction of human primary NK cells with
lentiviral vectors**

Göös, Helka

**P1-04 Chimeric Antigen Receptor (CAR) T cells
therapy demonstrates rapid and complete
metabolic response in heavily pretreated
refractory mantle cell lymphoma even in older
patients – a case presentation**

Strenge, Julia

-
- P1-05 **Development of large-scale expansion protocol for NKG2C-positive NK cells for treatment of glioblastoma**
Michen, Susanne
- P1-07 **The CARcoon project – Upscaling mRNA CAR-T cell manufacturing using the Cocoon platform**
Gebhardt, Clara
- P1-08 **Unleashing the potential of mRNA therapeutics: Enhancing T cell immunotherapy through CAR mRNA optimization**
Serfling, Robert
- P1-09 **How to improve mRNA-based CAR-T cell generation and functionality? A lab-scale comparison**
von Auw, Nadine
- P1-10 **Improving cell culture conditions for the GMP-compatible NK cell expansion**
Kistenmacher, Ann-Kathrin

POSTERS

Poster session II

Poster session II will take place on Thursday,
November 9, 2023, 11:00 am – 12:15 pm.

- P2-01 Complete and durable remission with pembrolizumab after anti-CD19 CAR T cell treatment in a patient with refractory primary mediastinal B cell lymphoma – a case report**
Zeremski, Vanja
- P2-02 Differences in functionality and sensitivity of TCR- and CAR-transgenic T cells in a multiple myeloma-model**
Vogelsang, Carolin
- P2-03 Imaging the immune system and its dynamicity with the CQ1 microscope**
Schell, Michael
- P2-04 Spatial transcriptomics in bone marrow biopsies from patients with multiple myeloma**
Blumert, Conny
- P2-05 Optimising perfusion parameters using Quality by Immune checkpoint survival in metastatic melanoma**
Kuhn, Christina
- P2-06 Cell biobanking with the Leipzig Medical Biobank - High-quality samples for reproducible research**
Baber, Ronny

- P2-07 Design for the intensified production of CAR T cells in a single-use automated stirred-tank bioreactor**
Hengst, Julia
- P2-08 SF3B1 splicing mutations distinctly shape monocyte signatures in lower-risk myelodysplastic neoplasms**
Schneider, Marie
- P2-09 LEDGF/p75 over-expression in CRISPR/Cas9-modified HEp-2 cells – a novel diagnostic approach for patients with benign prostate hyperplasia?**
Liedtke, Victoria
- P2-10 Humanized mouse models for preclinical evaluation of novel immune cell therapies, check point inhibitors, and immune cell engagers**
Stecklum, Maria
- P2-11 A microfluidic spheroid-on-a-chip model of vascularized pancreatic cancer for screening novel therapeutics**
Sommermann, Tom
- P2-12 Engineering of highly functional natural killer cells for adoptive transfer as a treatment strategy for high-risk acute lymphoblastic leukemia**
Schuster, Sabrina

SPONSORED SYMPOSIA

WEDNESDAY, NOVEMBER 8, 2023
12:45-1:30 PM

Janssen industry sponsored symposium

Supported by Janssen-Cilag



PHARMACEUTICAL COMPANIES OF *Johnson & Johnson*

- | | |
|----------|--|
| 12:45– | Introduction |
| 12:50 pm | Abken, Hinrich (University Hospital Regensburg, Regensburg, Germany) |
| 12:50– | The power of the immune control of cancer: CARs, antibodies & inhibitors |
| 1:00 pm | Abken, Hinrich (University Hospital Regensburg, Regensburg, Germany) |
| 1:00– | Immuno-oncology and GU cancer - A fairy or reality? |
| 1:10 pm | von Amsberg, Gunhild (Medical Center Hamburg-Eppendorf (UKE), Hamburg, Germany) |
| 1:10– | Current immunotherapy strategies in hematologic malignancies with a focus on multiple myeloma |
| 1:20 pm | Hansmann, Leo (University Hospital Regensburg Regensburg, Germany) |
| 1:20– | Discussion and summary |
| 1:30 pm | Abken, Hinrich; von Amsberg, Gunhild; Hansmann, Leo |

SPONSORED SYMPOSIA

WEDNESDAY, NOVEMBER 8, 2023
4:15–5:00 PM

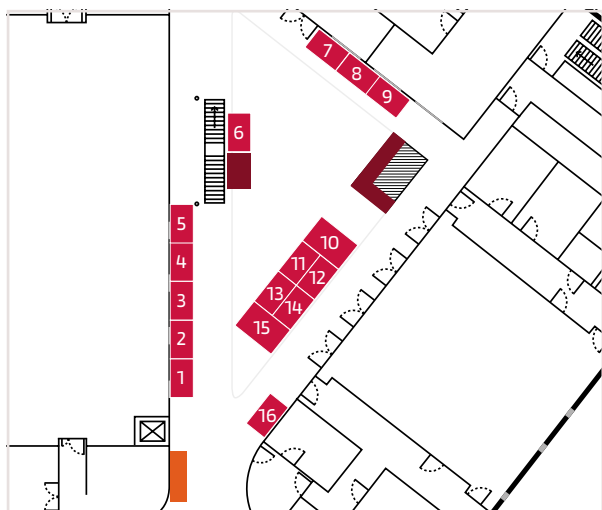
Kite industry sponsored symposium: Evolving landscape of CAR T-cell therapies

Supported by Kite



- | | |
|------------------|--|
| 4:15–
4:20 pm | Welcome & introduction
Chair: Vucinic, Vladan (University Medicine
Leipzig, Leipzig, Germany) |
| 4:20–
4:35 pm | Predicting response to CAR T-cell therapy:
Biomarkers and prognostic factors
Fricke, Stephan (Clinical Center Chemnitz,
Chemnitz / Fraunhofer IZI, Leipzig,
Germany) |
| 4:35–
4:50 pm | Bringing CAR T-cell therapy into clinical
practice: Real world experience
Schnetzke, Ulf (University Medicine Jena,
Jena, Germany) |
| 4:50–
5:00 pm | Panel discussion and Q&A
Chair: Vucinic, Vladan (University Medicine
Leipzig, Leipzig, Germany) |

SPONSORS & EXHIBITORS



Exhibitor	Booth
Amgen GmbH	12
Astellas Pharma GmbH	6
biosaxony	16
Bristol-Myers Squibb GmbH & Co. KGaA	11
Cenibra GmbH	13
GenScript	3
Gilead Sciences GmbH	15
Janssen-Cilag GmbH	10
Janvier Labs	9
Lipomed GmbH	8
MSD Sharp & Dohme GmbH	4
Novartis Pharma GmbH	7
OLS - OMNI Life Science	5
Precision NanoSystems (now part of Cytiva)	1
Promega GmbH	14
Sartorius CellGenix GmbH	2



In accordance with the requirements for certification by the State Medical Association, we disclose the financial support of all sponsors on the conference homepage at www.lion-conference.com/sponsors-exhibitors.php.

MEDIA PARTNERS



NOTES

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**SEE
YOU
NEXT
YEAR.**

Leipzig, Germany
November 12–13, 2024