

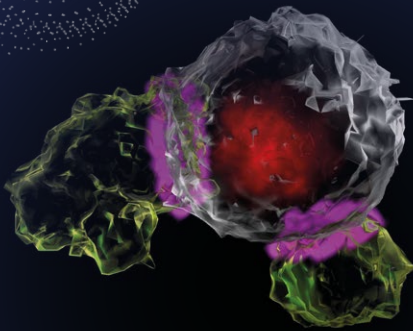


Leibniz Institute for  
Immunotherapy  
Cells built to cure

# International LIT Symposium

Synthetic Immunology /  
Synthetic Biology

June 26<sup>th</sup> – 27<sup>th</sup>, 2024  
Regensburg, Germany



## Welcome Address

Dear participants!

In the past years, synthetic immunology has made great progress – not only in regard to introducing novel reprogramming strategies and functional capacities into immune cells to target them against hematological and even solid tumors, but also by exploiting reprogrammed immune cells for the treatment of inflammatory and autoimmune diseases.

Yet, there are still major hurdles to be overcome on the way to efficient, safe and inexpensive immune cell products. These include for example the development of truly cancer specific cellular therapies, improvement of the TCR, novel types of antigen independent T cell activation, the selection and implementation of key functional capacities into T cells, the combined use of cell intrinsic and extrinsic logic gates and the rising potential of artificial intelligence in synthetic immunology.

Our LIT symposium 2024 will cover these and more aspects of cellular therapies with presentations from outstanding experts creating a think tank environment that will provide cutting edge insights into the latest developments in the field and ample time for discussions of novel ideas and concepts.

We are looking forward to welcoming you for two exciting days in the beautiful city of Regensburg!

On behalf of the board of directors,

**Philipp Beckhove**

**Conference chair**

Kindly supported by



Program	Wednesday, June 26 <sup>th</sup> , 2024	Program	Thursday, June 27 <sup>th</sup> , 2024
08.00 – 09.00	Registration Welcome	09.00 – 09.30	Christian Schmidl Understanding gene-regulatory cues in tumor-infiltrating T cells
09.00 – 10.00	Keynote Carl June Updates with armored CAR T cells	09.30 – 10.00	Markus Jeschek Novel DNA recorders for the data-driven engineering of biosystems
10.00 – 10.30	Kilian Schober Understanding & engineering of human-antigen specific T-cell immunity	10.00 – 10.30	Franziska Blaeschke Pooled CRISPR knockin screens: reprogramming therapeutic T cells
10.30 – 11.00	Cristina Puig Saus Engineering a potent T-cell response against solid tumors	10.30 – 11.00	Coffee break
11.00 – 11.30	Coffee break	11.00 – 11.30	Velia Siciliano Engineering CAR T cells with anti-exhaustion sensor-actuator devices: a step closer to reality
11.30 – 12.00	Alena Gros Vidal Leveraging the native antitumor T-cell response to design personalized T-cell therapies	11.30 – 12.00	Hinrich Abken Different ways for providing cytokine help to CAR T cells
12.00 – 12.30	Christopher Klebanoff Immunogenic and therapeutic landscape of NRAS Q61 'public' neoantigens	12.00 – 12.30	Jens Meiler Artificial intelligence and its impact on computational design of antibodies and vaccines
12.30 – 13.00	Naomi Taylor Integrating TCR-controlled fuzzy logic into CAR T cells to enhance therapeutic specificity	12.30 – 14.00	Lunch break Restaurant Weltenburger am Dom Domplatz 3, 93047 Regensburg
13.00 – 13.30	John Haanen Understanding TIL for the treatment of cancer	14.00 – 14.30	Megan Levings Improving CAR-Tregs with engineering and immunosuppression
13.30 – 16.00	Lunch & Poster session / Lightning talks Location Salzstadel	14.30 – 15.00	Markus Feuerer Understanding regulatory T cells in tissues and their engineering
16.00 – 16.30	John Maher CAR T-cell immunotherapy of solid tumours: from the clinic back to the bench	15.00 – 16.00	Keynote Shimon Sakaguchi Induction of antigen-specific and functionally stable Tregs from effector / memory T cells for adoptive cell therapy of autoimmune disease
16.30 – 17.00	Luca Gattinoni Counteracting T-cell exhaustion: T-cell therapy meets organelle medicine	16.00	End of Event
17.00 – 17.30	Michael Jensen Logic gated CAR T outputs based on extrinsic and cell intrinsic inputs		
17.30 – 18.30	Keynote Fabian Theis Generative AI to model cellular state and response in single cell genomics		
From 19.30	Participants' Dinner Brauhaus am Schloss Waffnergasse 6-8, 93047 Regensburg		

## Speakers

### Hinrich Abken

Leibniz Institute for Immunotherapy, Regensburg – Germany

### Franziska Blaeschke

German Cancer Research Center, Hopp-Kindertumorzentrum, Heidelberg – Germany

### Markus Feuerer

Leibniz Institute for Immunotherapy, Regensburg – Germany

### Luca Gattinoni

Leibniz Institute for Immunotherapy, Regensburg – Germany

### Alena Gros Vidal

Vall d'Hebron Institute of Oncology, Barcelona – Spain

### John Haanen

The Netherlands Cancer Institute, Amsterdam – Netherlands

### Michael Jensen

BrainChild Bio, Inc. University of Washington School of Medicine (retired), Seattle, WA – USA

### Markus Jeschek

University of Regensburg, Regensburg – Germany

### Carl June

University of Pennsylvania, Philadelphia, PA – USA

### Christopher Klebanoff

Memorial Sloan Kettering Cancer Center, New York, NY – USA

### Megan Levings

The University of British Columbia, BC Children's Hospital Research Institute, Vancouver, BC – Canada

### John Maher

King's College London, London – UK

### Jens Meiler

Leipzig University, Leipzig – Germany

### Cristina Puig Saus

University of California, Los Angeles, CA – USA

### Shimon Sakaguchi

Osaka University, Osaka – Japan

### Christian Schmid

Leibniz Institute for Immunotherapy, Regensburg – Germany

### Kilian Schober

Universitätsklinikum Erlangen, Erlangen – Germany

### Velia Siciliano

Istituto Italiano di Tecnologia, Genova – Italy

### Naomi Taylor

National Cancer Institute Center for Cancer Research, Bethesda, MD – USA

### Fabian Theis

Helmholtz Munich Technical University of Munich, Munich – Germany

## Program Committee

### Hinrich Abken

Div. of Genetic Immunotherapy; Leibniz Institute for Immunotherapy

### Philipp Beckhove

Div. of Interventional Immunology; Leibniz Institute for Immunotherapy

### Matthias Edinger

Department of Internal Medicine III; University Hospital Regensburg / Leibniz Institute for Immunotherapy

### Markus Feuerer

Div. of Immunology; Leibniz Institute for Immunotherapy

### Luca Gattinoni

Div. of Functional Immune Cell Modulation; Leibniz Institute for Immunotherapy

### Thomas Hehlgans

Div. of Immunology; Leibniz Institute for Immunotherapy

### Birte Kehr

“Algorithmic Bioinformatics”; Leibniz Institute for Immunotherapy

### Simone Thomas

“T cell therapy”; Leibniz Institute for Immunotherapy

## Registration / General Information

### Conference Fee (Dinner on June 26<sup>th</sup>, 2024)

PhD students (incl. dinner):	€ 200 pp
Regular participation (excl. dinner):	€ 300 pp
Regular participation (incl. dinner):	€ 350 pp
Industry participants (excl. dinner):	€ 450 pp
Industry participants (incl. dinner):	€ 500 pp

### Conference Venue

Plenary Sessions:

“Herzogssaal” – Domplatz 3, 93047 Regensburg

Poster Session / Lightning Talks:

“Salzstadel” – Weiße-Lamm-Gasse 1, 93047 Regensburg

### CME – Continuing Medical Education

Up to 15 points category A may be gained for participation to this symposium as part of the certification of Continuing Medical Education by the BLÄK Bavarian Medical Association (requested – subject to final approval). Don't forget to enter your EFN (Einheitliche Fortbildungsnummer) in the registration form. Only applicable for German Physicians.

### Accommodation

A limited number of rooms have been allocated at various hotels available at special rates for self reservation / call in until May 15<sup>th</sup>, 2024. Reservation requests are on first-come-first-serve basis, the respective hotel's terms and conditions apply. Please book your accommodation at [https://tagen-in-regensburg.com/\\_lit2024](https://tagen-in-regensburg.com/_lit2024).

## Legal Notice

### Legal Organizer

Leibniz Institute for Immunotherapy  
Prof. Dr. Philipp Beckhove  
Franz-Josef-Strauß-Allee 11  
93053 Regensburg, Germany

### Conference Organization

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### General Terms & Conditions

By registering to the LIT Symposium 2024, the participant accepts the GT&C, available for download on the conference's website [www.LIT-symposium.org](http://www.LIT-symposium.org)

At the event, photos will be made for use in the public relations of LIT. Photo Consent: <https://lit-symposium.org/photo-consent/>



Please register at:

[www.LIT-symposium.org](http://www.LIT-symposium.org)

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