



4th Symposium

by

May 7, 2026

Lecture Hall of the Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz.

HI-TRON Mainz

PROGRAM

- 09:00 Registration and Welcome Coffee
- 09:30 Opening by Hedda Wardemann
Spokesperson DKFZ Topic "Immunology, Infection and Cancer", including HI-TRON Mainz
- 09:45 Keynote Lecture by James Spicer
Professor of Experimental Cancer Medicine, King's College London, UK
- 10:30 Session 1: **Enabling Technologies for Precision Immunotherapy**
- 11:45 Innovative Technology Talk by Tian Qiu
DKFZ Division Head "Smart Technologies for Tumor Therapy"
- 12:15 Lunch Break with Poster Session 1
- 13:15 Session 2: **Modulating the Tumor Microenvironment**
- 14:30 Coffee break with Poster Session 2
- 15:00 Session 3: **Translational and Clinical Immunotherapy Strategies**
- 16:15 Beyond the Field Lecture by Jamie Blundell
Ursula Zoellner Professor and Research Group Leader, Early Cancer Institute, University of Cambridge, UK
- 17:00 Closing Session



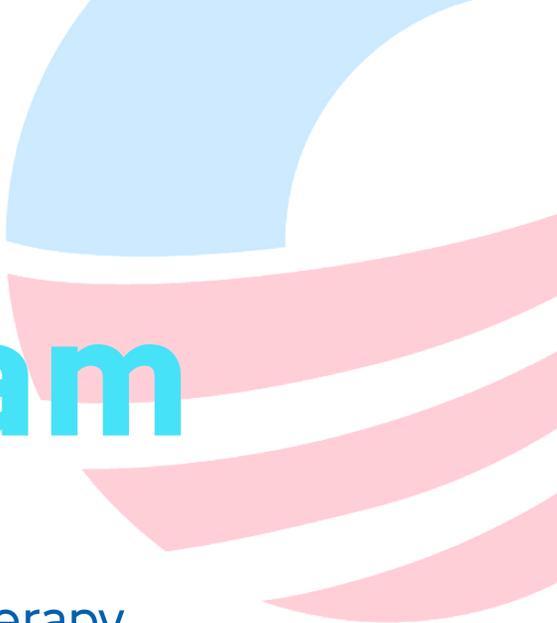
Organizer:



With the support of:



Session Program



Session 1: Enabling Technologies for Precision Immunotherapy

Chair: Niels Halama

High Sensitivity Immunopeptidomics for TCR specificity deconvolution

Stefan Tenzer, HI-TRON Division "Immunoproteomics" and UMC Mainz

Development of a versatile high-throughput immunopeptidomics workflow applied to clinical samples

Megan Ford and David Gomez-Zepeda, HI-TRON platform "Immunopeptidomics"

Quantum computing for personalized medicine: advances in quantum kernel utilization for machine learning

Florian Heining, HI-TRON Division "Tumor Immunology and Tumor Immunotherapy"

Precision DNA Delivery for In Vivo T-Cell Engineering

Alexandra Alves-Duarte, HI-TRON Division "mRNA Cancer Immunotherapies"

Next-Generation Lipid Nanoparticles for Therapeutic T Cell Engineering

Ramzi Saeed, HI-TRON Division "Personalized Immunotherapies"

Session 2: Modulating the Tumor Microenvironment

Chair: Stefan Tenzer

Innate immunity in the abdominal cavity: lipid-laden macrophages as immuno-metabolic nexus in the microenvironment of omental metastases

Niels Halama, HI-TRON Division "Tumor Immunology and Tumor Immunotherapy"

The role of a fibrotic tumour microenvironment in skin cancer on the susceptibility to immunotherapy

Shanice Gundel, HI-TRON Division "Dermal Oncoimmunology"

mRNA-LNP Based Tumor Microenvironment Modulation

Jannis Wißfeld, HI-TRON Division "mRNA Cancer Immunotherapies" and "Tumor Immunology and Tumor Immunotherapy"

Tbd

Veit Buchholz, DKFZ Division "Immunology", German Cancer Research Center Heidelberg

Session 3: Translational and Clinical Immunotherapy Strategies

Chair: Thomas Kindler

Investigator-initiated trials (IIT) to test immunotherapy combinations and digital innovation for personalized strategies in advanced gastrointestinal cancers

Markus Möhler, Department of Internal Medicine I, UMC Mainz

Targeted mRNA Delivery to Improve Responses to Immune Checkpoint Blockade

Hannah Stockhausen, HI-TRON Division "Personalized Immunotherapies"

PDAC Clinical Trial Platform: Zolbetuximab as a First Use Case

Ibrahim Murathan Sektioglu, HI-TRON Division "Personalized Immunotherapies"

Developing HLA-independent T-cell receptors against tumor-associated antigens for cellular therapy

Thomas Wölfel, Department of Hematology and Medical Oncology, UMC Mainz

