

5:15 Coffee Break

5:30 **GERMAN PRIZE FOR  
CANCER PREVENTION RESEARCH**

6:15 **Conference Get-together**

## 1 NOVEMBER 2023

8:30 **Welcome & The Expanded NCT**

**Michael Baumann**, German Cancer Research Center (DKFZ), Heidelberg

**Michael Hallek**, University Hospital of Cologne, Köln

9:00 **SESSION: Personalized Immunotherapy**

Chairs: Hermann Einsele & Josef Leibold

**Martin Bornhäuser**

IMPULSE LECTURE: *Personalized immunotherapy*

**Annette Künkele-Langer**

*CAR T cell therapies against pediatric malignancies*

**Michael Hudecek**

*Unfolding a new era in cell and gene therapy at full speed: Delivering a pipeline of advanced CAR-T cells to treat cancer*

**Ralf Bargou**

*T cell engaging bispecific antibodies: expanding role in hematological and solid tumors*

10:45 Coffee Break

11:00 **Networking Session Part 1** (*itches on study ideas*)

12:00 Lunch & **Poster Session**

1:00 **Networking Session Part 2** (*itches on study ideas*)

2:00 Coffee Break

2:15 **SESSION: AI Enhanced Image-Guided Local Therapies**

Chairs: Jürgen Debus & Stefanie Speidel

**Marius Distler**

IMPULSE LECTURE: *AI-enhanced image-guided local therapies*

**Leonardo Ayala**

*AI enhanced image-guided healthcare*

**Juliane Hörner-Rieber**

*AI-enhanced image-guided radiotherapy*

**Alexander Hann**

*AI-enhanced image-guided diagnostic and interventional endoscopy*

4:00 **Wrap Up & Closing Remarks**

## CONGRESS PRESIDENTS

Michael **Baumann**, German Cancer Research Center, Heidelberg

Michael **Ghadimi**, German Cancer Society, Berlin

Gerd **Nettekoven**, German Cancer Aid, Bonn

## SCIENTIFIC PROGRAM COMMITTEE

Melanie **Börries**, Freiburg

Jürgen **Debus**, Heidelberg

Hermann **Einsele**, Würzburg

Christine **Falk**, Hannover

Johannes **Förner** (Patient representative), München

Michaela **Frye**, Heidelberg

Florian **Greten**, Frankfurt

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Stefanie **Speidel**, Dresden

Markus **Wartenberg** (Patient representative), Wölfersheim (Södel)

Elisabeth **Wiesmüller**, Ulm

Olaf **Witt**, Heidelberg

## ORGANIZING TEAM

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**DKFK**  
Deutscher Krebsforschungskongress  
German Cancer Research Congress

**3rd**  
**GCRC**

**3<sup>rd</sup> German Cancer Research Congress**

**30 October – 1 November 2023**

German Cancer Research Center (DKFZ), Communication Center

[www.cancer-research-congress.de](http://www.cancer-research-congress.de)



#gcrc2023

# PROGRAM



[www.cancer-research-congress.de](http://www.cancer-research-congress.de)

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#DKFK #gcrc2023

## ORGANIZER

German Cancer Research Center (DKFZ)

Im Neuenheimer Feld 280 | 69120 Heidelberg | [www.dkfz.de](http://www.dkfz.de)



## 30 OCTOBER 2023

### 10:00 Welcome

**Michael Baumann**, German Cancer Research Center (DKFZ), Heidelberg

### 10:15 SESSION: Empowering Precision Medicine: Innovations in Cancer Diagnosis and Therapy

Chairs: Annette Künkele-Langer & Klaus Schulze-Osthoff

#### Kai Rejeski

„When a CAR hits the blood” – pathophysiology and management of Immune Effector Cell-Associated HematoToxicity (ICAHT)

#### Annika Schneider

Adding a phosphoproteomic component to treatment recommendations in molecular tumor boards

#### Smiths Lueong

A pancancer cell-free/tissue DNA methylation atlas for early detection, patient stratification and treatment monitoring

#### Stefan Knapp

Development of PROTACs for target validation in cancer

#### Jonas Heitmann

Bench to bedside development of antibody and peptide-based T cell immunotherapy

### 11:35 Parallel Workshops

1. The Potential of AI-Driven Data Analysis for Empowering Personalized Health Care (**Melanie Börries, Janne Vehreschild**)
2. The Power of Patient-Derived Organoids (PDOs) in Translational Cancer Research (**Maximilian Reichert, Henner Farin**)
3. Liquid Biopsies for Early Detection, Patient Stratification, and Treatment Monitoring (**Christof Winter, Holger Sültmann**)

### 12:40 Flash Talks – Meet/Find your Collaboration Partners

Chair: Barbara Grüner

### 1:10 Lunch & Poster Session

### 2:30 SESSION: Decoding Cancer Complexity: Dynamics of Tumor Heterogeneity, Plasticity, and Microenvironment

Chairs: Maximilian Reichert & Christiane Opitz

#### Florian Greten

CRC tumor microenvironment

#### Stefanie Bärthel

Pancreatic cancer subtype-specific secreted factors determine the immunosuppressive tumor microenvironment

#### Dieter Henrik Heiland

Transitioning single cell and spatial genomics in clinical applications

#### Andreas Schmidt

DKTK Joint Funding Project HYPERBOLIC – Visualizing cancer hallmarks through hyperpolarized magnetic resonance imaging

#### Pauline Hofelder

mTOR-driven translation activates the aryl hydrocarbon receptor upon tryptophan restriction

### 3:45 SESSION: Big Data in Cancer Research: Shaping the Future

Chairs: Melanie Börries & Thomas Oellerich

#### Sebastian Wolf

Using AML proteogenomics to uncover pathophysiological insights and improve treatment strategies

#### Matthew The

DecryptM: Decrypting drug actions and protein modifications by dose- and time-resolved proteomics

#### Geoffroy Andrieux

Decoding the tumor microenvironment in pancreatic cancer: leveraging high throughput data for comprehensive analysis

#### Bouchra Tawk

Reliable and robust DNA-methylation classifiers of head and neck cancer for precision radiotherapy

#### Kirsten Kübler

Decoding cancer genomes: tracing the cellular origins of cancer

### 5:00 Refreshments

### 5:30 Parallel Workshops

1. Patient Participation in Cancer Research (**Johannes Förner**)
2. Tumor Metastasis (**Peter Friedl, Victoria Sanz-Moreno**)
3. Immuno-Oncology Breakthroughs (**Uta Höpken**)
4. Imaging (**André Martins, Laura Kübler**)
5. Single Cell Biology (**Ana Martin-Villalba**)
6. Targeting Intratumoral Heterogeneity in Hard-to-Treat Cancers – HEROES-AYA and SATURN<sup>3</sup> (**Stefan Fröhling, Jens Siveke**)
7. Digitalization is the Master Key to an Innovative Healthcare System (**Titus Brinker**)

### 7:00 Drinks & Snacks

### 7:30 Speakers Dinner (by invitations only)

## 31 OCTOBER 2023

### 9:30 Welcome

**Michael Baumann**, German Cancer Research Center, Heidelberg

**Anne-Sophie Mutter**, German Cancer Aid, Bonn (video message)

**Michael Ghadimi**, German Cancer Society, Berlin

Greeting from the Minister (video message)

**Bettina Stark-Watzinger**, Federal Minister of Education and Research, Berlin

### 10:00 SESSION: Metabolism & Cancer

Chairs: Michaela Frye & Christine Falk

#### Kathrin Thedieck

New metabolic signals to mTOR: how cancer cells deal with amino acid stress

#### Sara Wickström

Mechanical regulation of cell states

#### Wilhelm Palm

Extracellular proteins as fuels for cancer cell growth

#### Felix Hartmann

Spatial metabolic profiling of the tumor microenvironment reveals clinically relevant metabolic states in human colorectal carcinoma

### 11:30 Flash Talks – Meet/Find your Collaboration Partners

Chair: Moritz Mall

### 12:00 Lunch & Poster Session

### 1:30 Bioinformatics & Functional Genomics for Precision Medicine

Chairs: Moritz Mall & Lisa Wiesmüller

#### Rita Schmutzler & Jan Hauke

Integrating bioinformatics and functional genomics in the clinical classification of genetic variation: Hereditary breast and ovarian cancer as a paradigm (HerediVar)

#### Gunnar Schmidt

Development of an interactive variant database for automated variant classification

#### Stefan Fröhling

Multilayered tumor profiling for precision oncology

#### Alexander Kleger

Single-cell profiling unleashes KRAS-driven redrafting of the tumor microenvironment before cancer onset

### 3:00 Coffee Break

### 3:30 SESSION: Microbiome & Cancer plus Joint Podium Discussion with Patient Representatives

Chairs: Florian Greten & Johannes Förner

#### Christoph Stein-Thöringer

On the role of the gut microbiome in cancer immunotherapy

#### Michael Scharl

The microbiome as driver of cancer metastasis and therapeutic target

#### Melek Canan Arkan

Host-microbiome interactions in cancer therapies

#### Panel discussion with

**Matthias Hoffmann**, Nutritionist (NCT Heidelberg)

**Michael Butler**, Patient representative (CIO, Köln)

**Susanne Weg-Remers**, Head of the Cancer Information Service (DKFZ, Heidelberg)