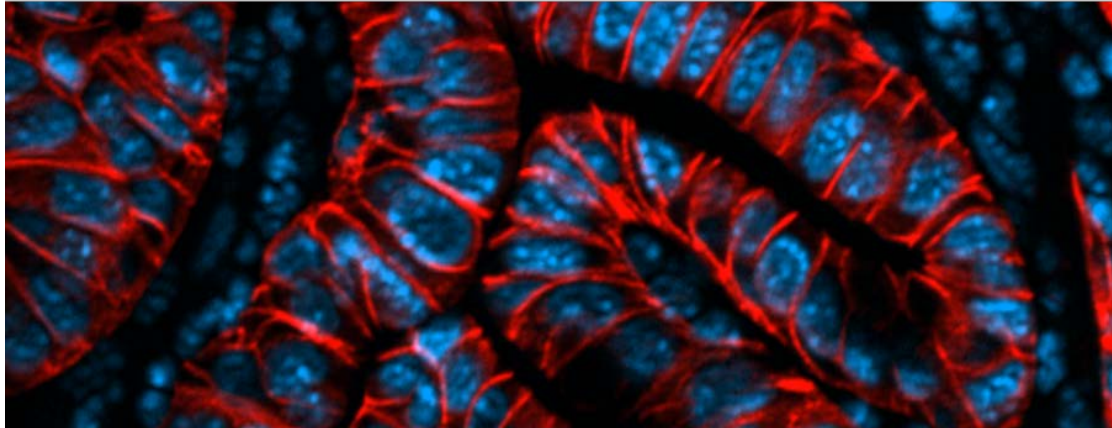


CRC1479 Symposium

Oncogene driven immune escape

July 10-12, 2024 | University Building KG1, Freiburg (Germany)



The first International CRC1479 Symposium will cover the newest developments in the topic of “Oncogene driven immune escape”, following the concept, that oncogenic signaling can enable cancer cells to evade natural immune surveillance and immunotherapy. We are looking forward to an exciting symposium with presentations by leading experts of the field and short talks by successful early career scientists.

We are very much looking forward to welcoming you here in the Black Forest!

Program

Day 1 July 10th, 2024

12:00 am - 02:00 pm	Registration and Reception
02.00 pm - 06.20 pm	Session I and Session II
07.30 pm - open end	Speakers' Dinner (for invited guests only)

Day 2 July 11th, 2024

08.00 am - 08.30 am	Reception
08.30 am - 07.00 pm	Session III, IV, V and Postersession
08.00 pm	Conference Dinner, Poster award ceremony and Get-Together, Restaurant “Waldsee”

Day 3 July 12th, 2024

08.30 am - 09.00 am	Reception
09.00 am - 12.40 pm	Session VI and VII
12.45 pm	Farewell Lunch

International Symposium
July 10-12, 2024 - University of Freiburg, Aula Building KG I

Keynote Speakers

- Dean Felsher (Stanford)
- Erika Pearce (Baltimore)
- Daniel Peeper (Amsterdam)
- Vijay Kumar Kuchroo (Boston)
- Franziska Blaeschke (San Francisco)
- Karen Dixon (Basel)
- Luca Vago (Milano)
- Pavan Bachireddy (Houston)

Confirmed Guest Speakers

- Daniel Schramek (Toronto)
- Florian Perner (Hannover)
- Petya Apostolova (Basel)
- Rouven Höfflin (Rehovot)
- Jan Böttcher (München)

Dear colleagues,

It is our pleasure to welcome you to our Symposium “Oncogene driven immune escape” organized by our Collaborative Research Center / SFB 1479 and its Integrated Research Training Group (IRTG) in Freiburg. The CRC 1479 is funded by the German research foundation and has the overarching concept that oncogenic signalling can enable cancer cells to evade natural immune surveillance and immunotherapy. We set out to achieve a better and broader understanding of the relationship between oncogenic signalling and immune escape by studying multiple oncogenic signalling events in diverse genetic cancer models, as well as in human tumours.

There were major achievements in the first funding period of this multidisciplinary research network such as the identification of a connection between the MDM2/p53 axis and immune responses against leukemia, which has led to a clinical trial, the observation that IDH mutations cause immunosuppressive myeloid cells in glioma, the role of IL-21 for immune checkpoint inhibitor function and the impact of ATF6 on immune cell metabolism in HCC, besides others.

We hope that these discoveries will open new avenues in basic and clinical translational research. This Symposium will cover these topics and give you the opportunity to debate the current concepts of oncogenic signaling and immune escape mechanisms at the beautiful venue of the old University Building (KG1) in Freiburg.

We invite you to share your knowledge in scientific discussions to exchange thoughts and ideas.

From the organizers Robert Zeiser and Tilman Brummer

International Symposium
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Day 1 July 10th, 2024

12.00 am to 2.00 pm **Registration, Reception and snack**

Session I: c-myc, ER stress and STING - key regulators of immune evasion?

Chair: Robert Zeiser

Time Program point - talk

2:00 pm	Welcome notes by Robert Zeiser (Freiburg)
2:15 pm	KEYNOTE Lecture I by Dean Felsher (Stanford) The MYC oncogene pathway is a global regulator of cancer growth and immune evasion
3:00 pm	Mathias Heikenwälder (Heidelberg/Tübingen) Chronic activation turns the ER stress protein ATF6 into an oncoprotein dictating immunotherapy response through metabolic reprogramming
3:20 pm	Maike Hofmann (Freiburg) ATF6 α is a hepatic ER stress-inducing oncoprotein metabolically restricting immunosurveillance - the human perspective
3:40 pm	Ian Frew (Freiburg) Immunosuppressive crosstalk between tumour, myeloid and T cells in an anti-PD-1/anti-CTLA-4 therapy resistant mouse ccRCC model

4:0 pm to 4:30 pm **Coffee break**

Session II: Oncogenic drivers of leukemia immune Escape

Chairs: Natalie Köhler, Robert Zeiser

Time Program point - talk

4:30 pm	Petya Apostolova (Basel) Metabolic drivers of anti-leukemia immunity
4:50 pm	Natalie Köhler (Freiburg) CMTM6 as a new player in leukemia immune escape
5:10 pm	Robert Zeiser (Freiburg) Oncogene driven immune escape in AML
5:30 pm	Justus Duyster (Freiburg) Effects of oncogene-driven Oncostatin M in hematopoietic neoplasm
5:50 pm	Pavan Bachireddy (Houston) ASXL1 marks the spot: a story of suppression
6:10 pm	Luca Vago (Milano) Mechanisms of Leukemia Immune Escape after Transplant: From Biology to Therapy (And Back)

7:30 pm **Speakers Dinner** - for invited guests only
Hotel Rappen am Münsterplatz

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Day 2 July 11th, 2024

8:00 am to 8:30 am Reception

Immune metabolism in cancer immunotherapy

Time Program point - talk

8:30 am **Welcome notes** to keynote lecture by **Petya Apostolova**

8:45 am **KEYNOTE Lecture II** by **Erika Pearce** (Baltimore)
Ordering Chaos: Delineating the Cell-Intrinsic Metabolic Signals that Regulate Immune Cell Differentiation

Session III: Oncogenic mutations and immune escape across entities

Chairs: Tilman Brummer, Dietrich Rues

Time Program point - talk

9:30 am **Daniel Schramek** (Toronto)
Decoding Aneuploidy: Identifying Drivers and Therapeutic Targets in Basal-like Breast Cancer

9:50 am **Florian Greten** (Frankfurt)
Tumor-stroma crosstalk in colorectal cancer

10:10 am **Florian Perner** (Hannover)
TBA

10:30 am **Lena Illert** (Munich)
The role of the NPM-ALK / PD1 axis for transformation and responsiveness of immunotherapy

10:50 am to 11:30 Coffee break

Session IV: High resolution data analysis

Chair: Melanie Börries

Time Program point - talk

11:30 am **Marco Prinz** (Freiburg)
The myeloid side of the brain

11:50 am **Rouven Höflin** (Rehovot)
Spatial organization of the glioblastoma ecosystem

12:10 pm **Geoffroy Andrieux** (Freiburg)
Unveiling Oncogenic Landscapes: Spatial Resolution Informs Immune Modulation and Precision Cancer Therapy

12:30 pm **Tobias Wertheimer** (Zürich)
Crosstalk between myeloid cells and Tregs supporting immunosuppression in the TME

12:50 pm to 2:30 pm Lunch break

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Session V: Contribution of myeloid cells to oncogene-driven immune escape

Chairs: Ian Frew, Justus Duyster

Start **Program point - talk**

2:30 pm **KEYNOTE Lecture III** by **Daniel Peeper** (Amsterdam)
Function-based genomics to combat immunotherapy resistance

3:15 pm **Nina Cabezas-Wallscheid** (Freiburg)
Regulation of hematopoietic stem cell dormancy

3:35 pm **Natascha Röhlen** (Freiburg)
The role of cell junction and adhesion proteins for tumor progression and immune escape in Hepatocellular carcinoma

3:55 pm to 4:15 pm **Coffee break**

4:15 pm **Olaf Groß** (Freiburg)
The Inflammasome in AML

4:35 pm **Karen Dixon** (Basel)
Dendritic cell determinants of anti-tumour immunity

4:55 pm **Jan Böttcher** (München)
The role of PGE2-induced cDC1 dysfunction for tumor immune escape

Poster Session

5:30 pm to 7:00 pm **Poster Session with poster walk**

8:00 pm **Dinner** - Location: Waldsee; Waldseestraße 84; 79117 Freiburg
Social gathering and Poster Prize Ceremony

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Day 3 **July 12th, 2024:**

8:30 am to 9:00 am **Reception**

Session VI: Overcoming immune escape from cellular therapy

Chairs: Susana Minguet, Robert Zeiser

Start **Program point - talk**

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| 9:00 am | Franziska Blaeschke (San Francisco)
Pooled CRISPR Knockin Screens: Reprogramming Therapeutic T Cells |
| 9:30 am | Tobias Feuchtinger (Freiburg)
Immune-interaction in pediatric acute leukemia |
| 9:50 am | Susana Minguet (Freiburg)
From the basic mechanism of TCR activation to innovative immunotherapies |

10:10 am to 10:40 am **Coffee break**

Session VII: Immune checkpoint molecules and T cell exhaustion

Chair: Tobias Wertheimer, Kristina Maas-Bauer

Start **Program point - talk**

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|----------|---|
| 10:40 am | KEYNOTE Lecture IV by Vijay Kumar Kuchroo (Boston)
Role of checkpoint molecule TIM-3 in regulating anti-tumor immunity |
| 11:25 am | Dietrich Ruess (Freiburg)
Interference with KRAS-signaling via combinatorial approaches including PTPN11/SHP2-phosphatase inhibition to enhance anti-tumour immunity in pancreatic cancer |
| 11:45 pm | Alexander Nyström (Freiburg)
Oncogenic HRAS promotes carcinoma progression through ECM remodeling and immunosuppressive metabolites – prospect for targeted therapies |
| 12:05 pm | Bertram Bengsch, Miriam Erlacher (Freiburg)
A cytokine explains the efficacy of CTLA-4 based checkpoint blockade therapy in melanoma |

12:25 pm to 12:40 pm **CLOSING REMARKS** by **Tilman Brummer, Robert Zeiser**

12:45 pm **Farewell Lunch**