



11th Cell Migration Retreat

Hostellerie am Schwarzsee, Seestrasse 10, 1716 Schwarzsee

Thursday, October 5th to Friday, October 6th, 2023

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ca. 12:00 **Arrival at Hostellerie am Schwarzsee**

Check-in possible starting 13:00

12:15 – 13:15 Lunch in-house

13:30 – 13:40 **Welcome – *Britta Engelhardt***

13:40 – 14:30 **Junior – Keynote Lecture: Chair – *Daniel Legler***

Julia Gutjahr, Biotechnology Institute Thurgau

Intracellular and nuclear CXCR4 signaling promotes erythroblast enucleation but not migration

14:30 – 15:30 **Session 1: Chair – *Ruth Lyck***

14:30 – 14:50 ***Jose Martinez Magdaleno (Stein)***

Exocrine gland-resident memory CD8⁺ T cells use mechanosensing for tissue surveillance

14:50 – 15:10 ***Javier Pareja (Engelhardt)***

CD8⁺ T cell leptomeningeal trafficking during CNS immune surveillance and neuroinflammation

15:10 – 15:30 ***Burak Kizil (Scheiermann)***

The Sympathetic Nerve System Defines Rhythms in the Anti-tumor Activities of NK Cells

15:30 – 17:10 Coffee break – Free time – Group activity Minigolf

(in case of bad weather: Pool- and Wellness in Hotel)

17:15 – 18:15 **Keynote Lecture 2: Chair – *Britta Engelhardt***

Katrine Qvortrup, TU Denmark, Kongens Lyngby, Denmark

Chemokine receptor activation – Progress towards novel therapeutic principles

18:15 – 18:55 **Session 2: Chair – *Ruth Lyck***

18:15 – 18:35 ***Leonhard Schink – (Legler)***

CCR7 mutants: Drivers of Adult T-Cell Leukemia/Lymphoma progression?

18:35 – 18:55 ***Pelin Kasap (Engelhardt)***

A human iPSC-derived isogenic model of the neurovascular unit to explore blood-brain barrier dysfunction in neuroinflammation

19:00 – 20:15 Dinner in-house

20:30 – 22:00 Science Flashes – Chair: Santiago Gonzalez

PhD students present their research in **max. 5 minutes** science flashes followed by **1 minute** of questions

Bryan Astudillo Ortega (Stein)

Characterization of tissue resident memory T cells using a novel genetic tool

Elaheh Ghovehroud (Uguccioni)

Migration Stimulating Factor: A New Target in Cancer Biology Biochemical and Biological Activity Characterization

Zeynep Gül (Scheiermann)

Characterization of adjuvants for optimal time-of-day effects of vaccines

Florencia Kloster (Engelhardt)

Entry of encephalitogenic T cells from CNS border compartments into CSF drained spaces during neuroinflammation

Valeria Oliva (Scheiermann)

Role of the sympathetic nervous system in leukocyte trafficking in the skin

Dixy Parakkattel (Engelhardt)

Gadolinium based contrast agent (GBCA) trafficking across the blood-brain-barrier

Sarmad Peymaei (Engelhardt)

Deciphering Cellular and Acellular Barrier Dysfunction in Stroke

Chiara Pizzichetti (Gonzalez)

Characterization of the innate immune response in the popliteal lymph node following SARS-CoV-2 vaccination

Pragallabh Purwar (Bourquin)

Role of hydrogen sulfide in the immune response to cancer

Melanie Scalise (Balmer)

Characterization of the obesity-driving bacterial consortia in a highly-standardized gnotobiotic mouse model

Karin Schmid (Guenat)

Exploring extravasation dynamics of lung cancer cells using a microvasculature-on-chip system

Brooke Slade (Zindel)

Modulating the peritoneal immune system to improve long-term, patency of intraperitoneal insulin pumps

Friday, October 6th, 2023

07:30 – 08:45 Breakfast and Check-Out

09:00 – 10:00 Session 3: Chair – Carole Bourquin

09:00 – 09:20

Daniela Claudino Carvoeiro (Stein)

A chemokine signal prevents aberrant T cell activation by terminating their crosstalk with dendritic cells

09:20 – 09:40

Kristina Berve (Engelhardt)

Sex-specific effects of endothelial Angiotensin-2 in health and neuroinflammation

- 09:40 – 10:00 **Kamil Chahine** (*Gonzalez*)
Characterization of the Interaction Between Diffuse Large B Cell Lymphoma and NK Cells By Two Photon Intravital Microscopy
- 10:00 – 10:20 **Yasmina Merzouk** (*Bourquin*)
Age-associated B cells: function and migration in cancer
- 10:20 – 10:40 **Amandine Brenna** (*Engelhardt*)
Exploring how encephalitogenic Th17 cells invade the central nervous system via the choroid plexus in neuroinflammation
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10:40 – 11:15 Coffee break

11:15 – 12:10 Session 4: Quiz and Awards – Chairs: Marcus Thelen & Jens Stein
Support team: Sarmad Peymaei & Alex Bofi Cuadros

11:15 – 12:15 **Quiz**

12:15 – 12:30 **Prize Awards:** Quiz winner – best Science Flashes – best Presentation

12:30 Farewell with Lunchbox

