

SPEAKERS

Carola **Berking**, Erlangen
Marcus **Conrad**, Munich
Kristian **Franze**, Erlangen
Dirk **Haller**, Munich
Claus **Hellerbrand**, Erlangen
Marisa **Karow**, Erlangen
Jona **Kayser**, Erlangen
Jochen **Mattner**, Erlangen
Veit **Rothhammer**, Erlangen
Marc **Stemmler**, Erlangen
Maximilian **Waldner**, Erlangen

Filipe **Cabreiro**, London
Reinhard **Fässler**, Martinsried
Claudia **Günther**, Erlangen
Lucie **Heinzerling**, Munich
Jana **Hutter**, London
Jacob **Kather**, Dresden
Christoph **Mark**, Erlangen
Valentin **Riedl**, Munich
Stephan **Rosshart**, Freiburg
Julio **Vera-Gonzalez**, Erlangen
Claudia **Waskow**, Jena

PROGRAMME COMMITTEE

Michael Wegner, Christoph Becker, Carola Berking,
Christian Bogdan, Aline Bozec, Anja Bosserhoff,
David Dulin, Anna Fejtova, Lina Gözl, Claudia Günther,
Raymund Horch, Dieter Chichung Lie, Michael Stürzl,
Maximilian Waldner

PARTICIPATION FEE

The participation fee is 80 € and covers the scientific programme and the catering on site. For information on accommodation, please contact: izkf-administration@uk-erlangen.de.

CONFERENCE VENUE

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CONFERENCE SECRETARIAT

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IZKF Erlangen

Chairman: Michael Wegner
Manager: Katrin Faber



Universitätsklinikum
Erlangen



8th International IZKF Symposium
9th - 10th June 2022

The Magic M's in
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Sponsors



Sponsoring/Standmiete: 2.000 €



Sponsoring/Standmiete: 1.500 €



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THE SYMPOSIUM IS CERTIFIED FOR CONTINUING MEDICAL
EDUCATION BY THE BAYERISCHE LANDESÄRZTEKAMMER.

14:00 Welcome and Introduction

Vice President Research **Georg Schett**, Erlangen

Dean of the Medical Faculty, **Markus Neurath**, Erlangen

Chair of the IZKF, **Michael Wegner**, Erlangen

14:30 – 16:30 Session I: Microbiota

Chair: **David Vöhringer/ Miriam Kalbitz**

Dirk Haller, Munich

Microbiome signatures:
from population studies to mechanisms

Stephan Rosshart, Freiburg

Born to be Wild - utilizing the common link among mammals to create better translational research models

Lucie Heinzerling, Munich/ Erlangen

Microbiome and immunotherapy - implications for treatment of cancer patients

Veit Rothhammer, Erlangen

How metabolism and microbiota shape immune responses in the central nervous system?

17:00 – 19:00 Session II: Metabolism

Chair: **Markus Metzler/ Janina Müller-Deile**

Filipe Cabreiro, London (*virtual via Webex*)

Drugs and the microbiota in health and disease

Claus Hellerbrand, Erlangen

Steatosis promotes cancer development and progression

Jochen Mattner, Erlangen

Arginase impedes the resolution of intestinal inflammation by altering the microbiome and the metabolome

Valentin Riedl, Munich

Towards integrative neuroimaging of body stress and resilience

19:30 Conference Dinner

08:30 – 10:30 Session III:

Artificial intelligence & clinical medicine

Chair: **Joachim Wölfle/ Lina Gözl**

Jacob Kather, Dresden

Artificial intelligence in clinical medicine

Jana Hutter, London (*virtual via Webex*)

MRI meets AI

Carola Berking/ Julio Vera-Gonzalez, Erlangen

Artificial intelligence in diagnostics and therapy of skin cancer

Ferdinand Knieling, Erlangen

Tailored imaging for pediatric precision medicine

11:00 – 13:00 Session IV: Poster Session

13:00 Conference Lunch

14:00 – 16:00 Session V: Stem cells and cell death

Chair: **Jürgen Behrens/ Friederike Zunke**

Claudia Waskow, Jena

Cross-communication of embryonic macrophages with adult hematopoiesis controls the pool size of innate immune cells

Marcus Conrad, Munich

Metabolic constraints regulating ferroptosis

Marisa Karow, Erlangen

Dynamic X-chromosome reactivation enhances female brain resilience

Claudia Günther, Erlangen

Cell death in the context of inter-organ communication: Implications for novel therapeutic targets

Marc Stemmler, Erlangen

Cell plasticity as driver of tumor stemness, therapy resistance and metastasis

16:30 – 18:30 Session VI:

Physical Methods & Mechanisms in Medicine

Chair: **Stefan Uderhardt/ Anna Fejtova**

Reinhard Fässler, Martinsried

Adhesion dynamics in mitosis

Kristian Franze, Erlangen

Physics in medicine

Jona Kayser, Erlangen

Multicellular dynamics & Evolution

Christoph Mark, Erlangen

Physical mechanisms of immune cell migration through connective tissue

Maximilian Waldner, Erlangen

Shedding light on intestinal inflammation: evaluating mucosal light-matter interactions with advanced photonic technologies

18:30 – 19:00

Publication Award

Poster Prizes

Laudatio: Christoph Becker

Short presentation by the Publication Award winner and the awardees of the poster prizes

Publication Award:

Jay Patankar, Erlangen

Prostanoids put a brake on necroptosis in IBD

19:30 Conference Dinner