

SPEAKERS

Carola Berking, Erlangen
Marcus Conrad, Munich
Reinhard Fässler, Martinsried
Claudia Günther, Erlangen
Lucie Heinzerling, Munich
Jana Hutter, London
Jacob Kather, Dresden
Christoph Mark, Erlangen
Valentin Riedl, München
Stephan Rosshart, Freiburg
Julio Vera-Gonzalez, Erlangen
Claudia Waskow, Jena

Filipe Cabreiro, London
Eran Elinav, Rehovot
Kristian Franz, 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

PROGRAMME COMMITTEE

Michael Wegner, Christoph Becker, Carola Berking,
Christian Bogdan, Aline Bozec, Anja Bosserhoff,
David Dulin, Anna Fejtova, Lina Götz, 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 accomodation, 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



Sponsors



Sponsoring/Standmiete: 2.000 €



Sponsoring/Standmiete: 1.500 €



Sponsoring/Standmiete: 1.500 €



Sponsoring: 500 €

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

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

The Magic M's in Modern Medicine:



THURSDAY, 9th JUNE 2022

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**

Eran Elinav, Rehovot (*virtual via Webex*)
Host microbiome interactions in health and disease

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 expression 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

FRIDAY, 10th JUNE 2022

08:30 – 10:30 Session III: Artificial intelligence & clinical medicine

Chair: **Joachim Wölflé/ Lina Götz**

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
Stem cell and cell death

Marcus Conrad, Munich
Metabolic constraints regulating ferroptosis

Marisa Karow, Erlangen
Uncovering the cellular and molecular mechanisms underlying
the neurodevelopmental disorder Opitz BBB/G syndrome

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

FRIDAY, 10th JUNE 2022

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