

SPEAKERS

Ruth **Beckervordersandforth-Bonk**, Erlangen D
Olivier **Couture**, Paris FR
Eleni **Dalaka**, Erlangen D
Markus **Eckstein**, Erlangen D
Bart **Everts**, Leiden NL
Fulvia **Ferrazzi**, Erlangen D
Viola **Introini**, Erlangen D
Benoit **Ladoux**, Erlangen D
Min Ae **Lee-Kirsch**, Dresden D
Helen **McShane**, Oxford UK
Fabian **Müller**, Erlangen D
Hendrik **Poeck**, Regensburg D
Ferdinand **Knieling**, Erlangen D
Meta **Roestenberg**, Leiden NL
Fotios **Sampaziotis**, Cambridge UK
Robert **Schwabe**, New York US
Mangala **Srinivas**, Wageningen NL
Daniela **Thorwarth**, Tübingen D
Caroline **Voskens**, Erlangen D
Anton **Windfelder**, Gießen D
Vasily **Zaburdaev**, Erlangen D

PROGRAMME COMMITTEE

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PARTICIPATION FEE

The participation fee is 100 € and includes the scientific programme, meals on site and accomodation. If you have any further questions, please contact: izkf-administration@uk-erlangen.de.

CONFERENCE VENUE

Hanns-Seidel-Stiftung e. V.
Bildungszentrum Kloster Banz
96231 Bad Staffelstein, Germany
Tel. +49 (- 9573) 337-22
Fax +49 (- 9573) 337-33

CONFERENCE SECRETARIAT

Universitätsklinikum Erlangen
IZKF Administrative Office
Krankenhausstr. 12
91054 Erlangen
Tel.: +49 (-9131) 85-46843
email: izkf@fau.de
www.izkf.med.fau.de

IZKF Erlangen

Chairman: Michael Wegner

Manager: Anne Reichel



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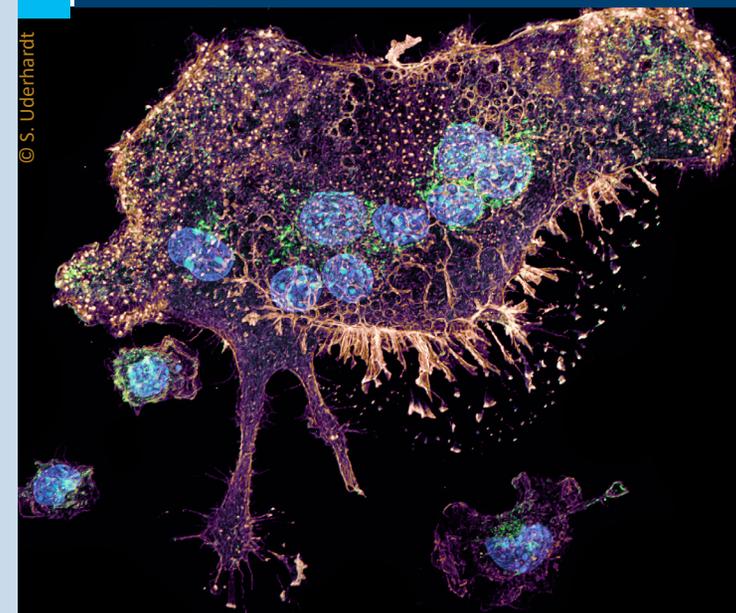
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THE SYMPOSIUM IS CERTIFIED FOR CONTINUING MEDICAL EDUCATION BY THE BAYERISCHE LANDESÄRZTEKAMMER.

10th International IZKF Symposium
25th - 26th June 2026

Molecules and Medicine -
Advances in Pathogenesis,
Diagnostics, Digital Health,
and Therapy



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THURSDAY, 25th JUNE 2026

Arrival till 13:30

Welcome and Introduction 13:45

Dean of the Medical Faculty, **Markus Neurath**, Erlangen
Chair of the IZKF, **Michael Wegner**, Erlangen

Session I: Diagnostics and Imaging Chair: **Jana Hutter / Alexander Link** 14:00 – 15:50

Mangala Srinivas, Wageningen NL
Translating 19F MRI for in vivo cell tracking: from molecular labels to clinical practice

Anton Windfelder, Gießen D
Advanced imaging of gut inflammation: insights from an invertebrate model system

Ferdinand Knieling, Erlangen D
Imaging the neonate at super-resolution

Ruth Beckervordersandforth-Bonk, Erlangen D
Functional role of astrocytes in hippocampal plasticity in health and disease

Session II: Biophysics and Biomechanics Chair: **Andreas Arkudas / Eva Kiermaier** 16:20 – 18:00

Vasily Zaburdaev, Erlangen D
Defining “Physics and Medicine” with some theory twist

Benoît Ladoux, Erlangen D
Mechanical imprints of cell extrusion and competition

Viola Introini, Erlangen D
Bioengineering microvascular models to understand malaria pathogenesis

Eleni Dalaka, Erlangen D
Bioengineering tumours in vitro to study cancer biomechanics

Conference Dinner 18:30

FRIDAY, 26th JUNE 2026

Session III: Genetics and Pathogenesis of Disease Chair: **Simone Mader / Krystelle Nganou** 08:30 – 11:00

Robert Schwabe, New York US
Hepatic stellate cells: balancing protection and fibrosis in the liver

Bart Everts, Leiden NL
Regulating the regulators: how dendritic metabolism dictates the balance between tolerance and immunity

Meta Roestenberg, Leiden NL
Controlled human malaria infections as a tool to dissect pre-erythrocytic malaria immunity

Helen McShane, Oxford UK
Progress and challenges in TB vaccine development

Min Ae Lee-Kirsch, Dresden D
Lessons learned from monogenic forms of lupus

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

Conference Lunch 13:00

Session V: Machine Learning and Digital Medicine Chair: **David Blumenthal / Leila Taher** 14:00 – 15:50

Olivier Couture, Paris FR
Super-resolution ultrasound imaging

Daniela Thorwarth, Tübingen D
Potential and challenges of automizing radiotherapy using machine learning

Markus Eckstein, Erlangen D
Spatial tumor immune microenvironment drives therapy resistance in advanced urothelial cancer

Fulvia Ferrazzi, Erlangen D
Bioinformatics and AI in precision oncology

FRIDAY, 26th JUNE 2026

Session VI: Novel Immunotherapies Chair: **Christina Bergmann / Ricardo Grieshaber-Bouyer** 16:10 – 18:00

Hendrik Poeck, Regensburg D
The role of the microbiome in CAR T cell therapy

Fotios Sampaziotis, Cambridge UK
Cell and gene therapies for liver disease and beyond

Fabian Müller, Erlangen D
The rise of CAR T: expanding into uncharted territories

Caroline Voskens, Erlangen D
Designer tregs to treat inflammatory bowel disease

Publication Awards Poster Prizes 18:00 – 19:00

Laudatio: **Chichung Lie**

Short presentations by the winners
- of the publication awards
- and poster prizes

Closing Reception 19:00

Farewell and Departure