

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

Christian Bogdan, Aline Bozec, Lisa Deloch, Markus Eckstein, Claudia Günther, Ulrike Hüffmeier, Roland Lang, Fabian Müller, Christiane Krystelle Nganou Makamdop, Michaela Petter, Veit Rothhammer, Maximilian Waldner, Michael Wegner, Beate Winner, Mario Zaiss

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.

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Manager: Anne Reichel



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1996 - 2026

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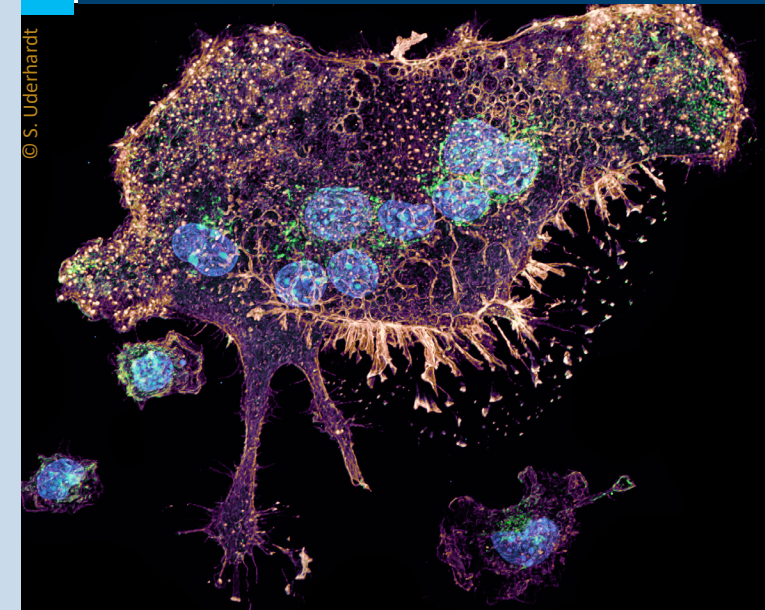
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THE SYMPOSIUM IS CERTIFIED FOR CONTINUING MEDICAL EDUCATION BY THE BAYERISCHE LANDESÄRZTEKAMMER.

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: **Michaela Petter / 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 / Markus Eckstein** 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