

SPEAKERS

Luca Berdondini, Genua
Thomas Bocklitz, Jena
Aline Bozec, Erlangen
Claudio Castellini, Erlangen
Ivan Dikic, Frankfurt
Kerstin Galler, Erlangen
Dominic Grün, Würzburg
Wolf-Dietrich Hardt, Zürich
Steffen Jung, Rehovot
Agnès Lehuen, Paris
Martina Muckenthaler, Heidelberg
Janina Müller-Deile, Erlangen
Tobias Pukrop, Regensburg
Heiko Reutter, Erlangen
Christian Schwartz, Erlangen
Miguel Soares, Oeiras
Peter Soba, Erlangen
Daniela Souza de Oliveira, Erlangen
Malu G. Tansey, Gainesville
Tomohisa Toda, Erlangen
Nora Vögtle, Heidelberg
Friederike Zunke, Erlangen

PROGRAMME COMMITTEE

Michael Wegner, Aline Bozec, Friederike Zunke, Marisa Karow, Carola Berking, Maximilian Waldner, Markus Eckstein, Claus Hellerbrand, Thomas Kinfe, Adrian Regensburger, Mario Zaiss, Roland Lang

PARTICIPATION FEE

The participation fee is 100 € and covers the scientific programme and the catering on site as well as the accomodation. For further questions, please contact: izkf-administration@uk-erlangen.de.

CONFERENCE VENUE

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IZKF Erlangen

Chairman: Michael Wegner
Manager: Katrin Faber



**Uniklinikum
Erlangen**



**9th International IZKF Symposium
20th - 21th June 2024**

**From cells to organs:
How interactive networks
shape human disease**



Sponsors



Sponsoring: 500 €



Sponsoring: 500 €

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

Quelle: Uniklinikum Erlangen

THURSDAY, 20th JUNE 2024

Arrival till 13:30

Welcome and Introduction 13:45

Vice President Research **Georg Schett**, Erlangen
Vice Dean of the Medical Faculty, **Klaus Überla**, Erlangen
Chair of the IZKF, **Michael Wegner**, Erlangen

Session I: Intracellular Chair: Lydia Meder/ Andreas Ramming 14:00 – 16:00

Nora Vögtle, Heidelberg
How protease networks shape the mitochondrial proteome
Ivan Dikic, Frankfurt
Ubiquitin and autophagy networks in health and disease
Friederike Zunke, Erlangen
Lysosomes in Neurodegeneration: their role in pathology and as therapeutic target

Tomohisa Toda, Erlangen
Exploring roles of nuclear architecture in neural plasticity and brain aging

Session II: Intercellular Chair: Caroline Voskens/ Kilian Schober 16:30 – 18:30

Tobias Pukrop, Regensburg
Organ metastases: The unphysiologic and fatal Organ Collision at the Macro-Metastases Organ Parenchyma Interface

Steffen Jung, Rehovot
Monocyte and Macrophages - revisited

Dominic Grün, Würzburg
Deciphering driving forces of cell fate decision at single-cell resolution in health and disease

Aline Bozec, Erlangen
Neutrophils and metabolically activated myeloid cells promote a detrimental tumor microenvironment in obese bone marrow

Janina Müller-Deile, Erlangen
Glomerular crosstalk through miR loaded exosomes

Conference Dinner 19:00

FRIDAY, 21th JUNE 2024

Session III: Between organs Chair: Jessica Freiherr/ Oliver Dewald 08:30 – 10:30

Martina Muckenthaler, Heidelberg
Safeguarding Iron Homeostasis through Cell-Cell Communication
Miguel Soares, Oeiras
Metabolic reprogramming as a defence strategy against infection
Heiko Reutter, Erlangen
Congenital Malformations and the Zebrafish, a suitable vertebrate model
Peter Soba, Erlangen
Between organ(ism)s: mechanisms of somatosensory circuit alterations in Autism models

Session IV: Poster Session 10:30 – 12:30

Conference Lunch 12:30

Session V: Between Human and Microbiom Chair: Lisa Deloch/ Michael Vieth 13:30 – 15:30

Wolf-Dietrich Hardt, Zürich
Salmonella diarrhea: microbiota, food and virulence
Malu G. Tansey, Gainesville
The gut-brain axis in Parkinson's disease
Agnès Lehuen, Paris
MAIT cells and microbiota in diabetes and obesity
Christian Schwartz, Erlangen
The impact of obesity-mediated dysbiosis on type 2 immunity
Kerstin Galler, Erlangen
Immunological Aspects and Regenerative Approaches in Dental Medicine

FRIDAY, 21th JUNE 2024

Session VI: Between Human and "Machine" Chair: Thomas Kinfe/ Franziska Mathis-Ullrich 16:00 – 18:00

Luca Berdondini, Genua
From passive to active dense electrode array devices for brain interfacing
Thomas Bocklitz, Bayreuth
Explainable AI: making machine learning based diagnostic predictions understandable for humans
Claudio Castellini, Erlangen
Signals and strategies to foster co-adaptation between patients and robots
Daniela Souza de Oliveira, Erlangen
Tracking Motor Recovery with a Spinal Cord Interface

Publication Award Poster Prizes 18:00 – 18:30

Laudatio: Christoph Becker

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

Conference Dinner 19:00