

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 Kiefe, 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 accommodation. For 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
e-mail: izkf@fau.de
www.izkf.med.fau.de

IZKF Erlangen

Chairman: Michael Wegner
Manager: Katrin Faber



Uniklinikum
Erlangen



Sponsors



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

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

From cells to organs:
How interactive networks
shape human disease



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 Bosch-Voskens/ Kilian Schober** 16:30 – 18:30

Tobias Pukrop, Regensburg
tbd

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