

SPEAKERS

Luca **Berdondini**, Genua
Thomas **Bocklitz**, Jena
Aline **Bozec**, Erlangen
Claudio **Castellini**, Erlangen
Ivan **Dikic**, Frankfurt
Gregor **Fuhrmann**, Erlangen
Kerstin **Galler**, Erlangen
Dominic **Grün**, Würzburg
Wolf-Dietrich **Hardt**, Zürich
Steffen **Jung**, Rehovot
Martina **Muckenthaler**, Heidelberg

Janina **Müller-Deile**, Erlangen
Marco **Prinz**, Freiburg
Tobias **Pukrop**, Regensburg
Heiko **Reutter**, Erlangen
Christian **Schwartz**, Erlangen
Miguel **Soares**, Oeiras
Peter **Soba**, Erlangen
Daniela **Souza de Oliveira**, Erlangen
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 accommodation. For further questions, please contact: izkf-administration@uk-erlangen.de.

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

9th International IZKF Symposium
20th - 21st 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 – 15:40

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** 16:10 – 18:30

Steffen Jung, Rehovot
Monocyte and Macrophages - revisited

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

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
Intranephron communication through exosomes

Conference Dinner 18:30

FRIDAY, 21st JUNE 2024

Session III: Between organs Chair: **Jessica Freiherr/ Oliver Dewald** 08:30 – 10:40

Miguel Soares, Oeiras
Metabolic reprogramming as a defence strategy against infection

Martina Muckenthaler, Heidelberg
Safeguarding Iron Homeostasis through Cell-Cell Communication

Marco Prinz, Freiburg
The myeloid side of the brain

Heiko Reutter, Erlangen
Congenital Malformations and the Zebrafish, a suitable vertebrate model

Peter Soba, Erlangen
Between organ(ism)s: Axon length-dependent synapse loss by neuronal cytokine-induced glial phagocytosis

Session IV: Poster Session 10:45 – 12:45

Conference Lunch 12:30

Session V: Between Human and Microbiom Chair: **Lisa Deloch/ Michael Vieth** 13:30 – 15:20

Wolf-Dietrich Hardt, Zürich
Salmonella diarrhea: microbiota, food and virulence

Gregor Fuhrmann, Erlangen
Bacteria-derived vesicles as intercellular communicators

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, 21st JUNE 2024

Session VI: Between Human and “Machine” Chair: **Thomas Kinfe/ Alessandro del Vecchio** 15:50 – 17:40

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 17:40 – 18:30

Laudatio: **Christoph Becker**

Short presentation
by the Publication Award winner **Oana-Maria Thoma**
and the awardees of the poster prizes

Conference Dinner and Networking 18:30

SATURDAY, 22nd JUNE 2024

Farewell and Departure