

Speakers

Dr. Makoto Arita

Center for Integrative Medical Sciences, RIKEN

Prof. Dr. Ingo Autenrieth

Institute of Medical Microbiology and Hygiene, UKT

Prof. Dr. Julia-Stefanie Frick

Institute of Medical Microbiology and Hygiene, UKT

Dr. Shin-ichiro Fujii

Center for Integrative Medical Sciences, RIKEN

Dr. Chung-Chau Hon

Center for Integrative Medical Sciences, RIKEN

Prof. Dr. Daniel Huson

Department of Computer Science, University of Tübingen

Prof. Dr. Oliver Kohlbacher

Department of Computer Science, University of Tübingen

Dr. Haruhiko Koseki

Center for Integrative Medical Sciences, RIKEN

Prof. Dr. Stefan Laufer

Pharmaceutical Chemistry, University of Tübingen

Prof. Dr. Nisar Malek

Department of Internal Medicine I, UKT

Dr. Sven Nahnsen

Quantitative Biology Center, Tübingen

Dr. Hidewaki Nakagawa

Center for Integrative Medical Sciences, RIKEN

Prof. Dr. Konstantin Nikolaou

Department of Diagnostic and Interventional Radiology, UKT

Dr. Hiroshi Ohno

Center for Integrative Medical Sciences, RIKEN

Prof. Dr. Stephan Ossowski

Institute of Medical Genetics and Applied Genomics, UKT

Prof. Dr. Nico Pfeifer

Department of Computer Science, University of Tübingen

Prof. Dr. Bernd Pichler

Department of Preclinical Imaging and Radiopharmacy, UKT

Dr. Kazuhiro Sakurada

Medical Sciences Innovation Hub Program, RIKEN

Dr. Jun Seita

Medical Sciences Innovation Hub Program, RIKEN

Dr. Jay W. Shin

Center for Integrative Medical Sciences, RIKEN

Dr. Takashi Tanaka

Center for Integrative Medical Sciences, RIKEN

Prof. Dr. Jan Wehkamp

Department of Internal Medicine I, UKT

Dr. Tadashi Yamamoto

Center for Integrative Medical Sciences, RIKEN

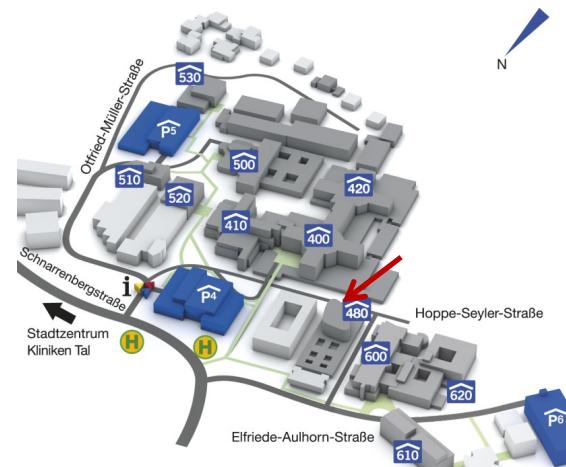
Prof. Dr. Lars Zender

Department of Internal Medicine VIII, UKT

More information

Meeting venue

Gesundheitszentrum (GZT)
Conference Room 1+2
University Hospital Tübingen
Hoppe-Seyler-Str. 6, 72076 Tübingen



Organizers

- Dr. H. Koseki, IMS RIKEN
- Prof. Dr. N. P. Malek, ZPM Tübingen

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Imprint

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Center for Personalised Medicine (ZPM)



ZPM-RIKEN Symposium

Integrative Personalised Medicine -
Connecting genomics, microbiomics and
metabolomics

16th-17th July 2018

Gesundheitszentrum (GZT)

University Hospital Tübingen, Germany



Agenda

Monday, July 16 2018

- 08:30 Welcome (*I. Autenrieth*)
08:50 Cutting edge research in RIKEN IMS (*T. Yamamoto*)
09:10 ZPM and M3 overview (*N. Malek*)

Session I: Microbiome and regulation of inflammation

- Chairs: *H. Ohno and I. Autenrieth*
09:30 Personalized Infection Medicine by metagenomic analysis of the intestinal microbiome. *I. Autenrieth*
09:50 Flagellin hypervariable domain structure contributes to either symbiotic or pathobiotic properties of commensal *Escherichia coli* strains. *J.-S. Frick*
10:10 Small intestinal microbes act in concert pathogenesis in experimental autoimmune encephalomyelitis, an animal model for multiple sclerosis. *H. Ohno*
10:30 Coffee break
11:00 Therapeutic targeting of microbiome to treat inflammatory diseases using endogenous host peptides. *J. Wehkamp*
11:20 Microbiota-dependent development of non-alcoholic steatohepatitis (NASH) in PDLIM2-deficient mice. *T. Tanaka*
11:40 Advanced lipidomics strategy to identify bioactive lipids. *M. Arita*

Session II: Data integration and systems biology

- Chairs: *K. Sakurada and O. Kohlbacher*
12:00 The description of biological phenomena as an open system. *K. Sakurada*

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- 12:20 How machine learning can help us tackle problems in personalized medicine
N. Pfeifer
12:40 Objective gene expression profiling by gene expression commons
J. Seita
13:00 Lunch break
14:15 Fast and mobile microbiome analysis
D. Huson
14:35 Comprehensive metabolic profiling: new approaches to the analysis of untargeted metabolic profiling data from LC-MS.
O. Kohlbacher
14:55 Human long non-coding RNAs: origins and functional evidence
C.-C. Hon
15:15 Data infrastructure enabling large-scale biomedical applications. *S. Nahnse*
15:35 Coffee break

Social event

- 16:15 Departure in Tübingen at the GZT by bus
17:00 Visit of the Hohenzollern Castle
19:00 Dinner at the Restaurant "Burg Hohenzollern"
22:30 Arrival in Tübingen at the GZT

Tuesday, July 17 2018

Session III: Signaling and cancer therapy

- Chairs: *H. Koseki and N. Malek*
08:30 Cell cycle control and DNA damage
N. Malek
08:50 CCC and microbiota
L. Zender
09:10 Dissecting atopic dermatitis
H. Koseki

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- 09:30 Cell death and CCR4-NOT, an mRNA decay machinery
T. Yamamoto
09:50 NKT-based immunotherapy
S.-i. Fujii
10:10 Design, synthesis and biological evaluation of novel type 1½ p38α MAP kinase inhibitors: implication for cancer- and CNS-applications. *S. Laufer*
10:30 Coffee break
11:00 Break-out sessions in small groups
13:00 Lunch break

Session IV: Imaging and genomic technologies

- Chairs: *H. Nakagawa and B. Pichler*
14:30 Imaging of tumor-infiltrating immune cells and implications for cancer immunotherapy. *B. Pichler*
14:50 Imaging in precision medicine: new frontiers and challenges
K. Nikolaou
15:10 Exploiting single-cell genomic technologies to decode gene regulation
J. W. Shin
15:30 Positive and negative selection in tumor evolution
S. Ossowski
15:50 Cancer whole genome sequencing and immuno-genomic analysis
H. Nakagawa
16:15 Coffee break
16:45 Summary of break-out sessions and final remarks
19:00 Speakers dinner
(Bootshaus am Neckar, Tübingen)