

SPEAKERS

Keynote - Henry Higgs | *Dartmouth College, USA*

Philippe Chavrier | *Institut Curie, France*

Irene Chiolo | *University of Southern California, USA*

Daniel Fisher | *University of Montpellier, France*

Naoyuki Inagaki | *Nara Institute of Science and Technology, Japan*

Peter Lenart | *MPI for Biophysical Chemistry, Germany*

Uri Manor | *Salk Institute for Biological Studies, USA*

Klemens Rottner | *University of Braunschweig, Germany*

Gudula Schmidt | *University of Freiburg, Germany*

Theresia Stradal | *HZI, Braunschweig, Germany*

Maria Vartiainen | *University of Helsinki, Finland*

Roland Wedlich-Söldner | *University of Münster, Germany*

Matthew Welch | *University of California, Berkeley, USA*

+ Selected Speakers from Abstracts!

VENUE

Institute of Experimental and
Clinical Pharmacology and Toxicology
„Otto-Krayer-Haus“ | Lecture Hall | 1st floor
Albertstraße 25 | 79104 Freiburg

SCIENTIFIC ORGANIZATION

Medical Center - University of Freiburg
Institute of Experimental and Clinical Pharmacology
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KEYNOTE SUPPORTED BY



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Actin Assembly for Intracellular Functions

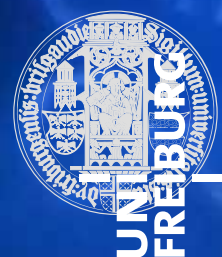
February, 20th -
February, 21st 2020
Freiburg | Germany

Organizing Team

Robert Grosse
Marion Zehner
Gerhard Wetterer
Carsten Schwan



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PROGRAM
THURSDAY, 20.02.2020

12:00	Registration
<i>Session Chair: Robert Grosse</i>	
14:00	Opening
14:10	Keynote Lecture: Actin-mitochondrial communication: a two-way street with multiple on-ramps <i>Henry Higgs</i>
15:10	Coffee Break
Session 1: Intracellular Actin Functions <i>Session Chair: Gudula Schmidt</i>	
15:30	„New Methods for High Spatiotemporal Resolution Imaging of Actin-Dependent Organelle Dynamics” <i>Uri Manor</i>
16:00	Discrimination of disease-linked INF2 variants by quantitative cellular profiling <i>Roland Wedlich-Söldner</i>
16:30	Novel redox function of BCAT1 plays a role in cell division <i>Liliana Francois</i>
16:50	Myosin 19 couples filopodia formation and mitochondria transfer to their tips under stress <i>Arnon Henn</i>
17:10	Coffee Break
<i>Session Chair: Norbert Klugbauer</i>	
17:30	Mechanobiology of Actin-Driven Neuronal Network Formation <i>Naoyuki Inagaki</i>
18:00	Actin filaments store elastic energy to produce nanoscale forces <i>Marion Jasnin</i>
18:20	Role of the actin-binding proteins cofilin 1 and inverted-formin 2 (INF2) on mitochondrial and cellular resilience <i>Carsten Culmsee</i>
After-wards	Get Together and Poster Session 1

PROGRAM
FRIDAY, 21.02.2020

Session 2: Trafficking and Organelle Dynamics <i>Session Chair: Carsten Schwan</i>	
09:00	The protease-dependent invasion program of breast cancer cells <i>Philippe Chavrier</i>
09:30	Assembling actin filaments for effective motility <i>Klemens Rottner</i>
10:00	DLC3 suppresses MT1-MMP-dependent matrix degradation by controlling RhoB and actin remodeling at endosomal membranes <i>Bettina Noll</i>
10:20	The first CLIC-GEEC cargo adaptor links Rab21-bound integrins to endocytosis in breast cancer cells <i>Paulina Moreno-Layseca</i>
10:40	Coffee Break
<i>Session Chair: Robert Grosse</i>	
11:20	Phototrhabdus Toxin Complex (PTC) as variable protein injection machinery: A tool to analyze local regulation of the cytoskeleton <i>Gudula Schmidt</i>
11:50	Dissection of actin assembly pathways by CRISPR/Cas9 <i>Theresia Stradal</i>
12:20	Back on track: Highly dynamic F-actin filaments in apicomplexan parasites <i>Markus Meißner</i>
12:40	Cell matrix invasion requires Myosin isoform polarity mediated Nuclear-Force Coupling <i>Tobias Zech</i>
13:00	Lunch and Posters

PROGRAM
FRIDAY, 21.02.2020

Session 3: Actin Dynamics and Nuclear Functions <i>Session Chair: Liliana Francois</i>	
15:00	Actin' on transcription <i>Maria Vartiainen</i>
15:30	Roles of nuclear actin in structuring DNA replication <i>Daniel Fisher</i>
16:00	Highways for heterochromatin repair <i>Irene Chiolo</i>
16:30	Myosin VI moves on nuclear actin filaments and supports long-range chromatin rearrangements <i>Christof Gebhardt</i>
16:50	Coffee Break
<i>Session Chair: Roland Wedlich-Söldner</i>	
17:10	Viral mobilization of actin in the nucleus <i>Matthew Welch</i>
17:40	A novel, F-actin-driven mechanism of nuclear envelope rupture <i>Peter Lenart</i>
18:10	Nuclear F-actin and genome stability in mammalian oocytes <i>Binyam Mogessie</i>
18:30	GPCR-induced calcium transients trigger nuclear actin assembly for chromatin dynamics <i>Ying Wang</i>
18:50	Closing Remarks
After-wards	Buffet Dinner