PROGRAM FRIDAY, 12.05.2023

Session: Actin functions in physiology and disease Session Chair: Susanne Mühlich

- 09:30 Mutations in WASp: understanding actin regulation in immune cells *Lisa Westerberg*
- 10:00 Formin-mediated nuclear actin at androgen receptors promotes transcription Julian Knerr
- 10:20 In situ dynamics, structure and buffering functions of intranuclear actin-cofilin rods during cellular stress response *Mukthi Iyer*

10:40 Coffee Break

Session Chair: Eugen Kerkhoff

- 11:00 Divergent actin and actin binding proteins of Plasmodium Freddy Frischknecht
- 11:30 INF2 regulates organelle mobility via ER-associated actin *Cara R. Schiavon*
- 11:50 Arp2/3 protects the homeostasis of tissue-resident mast cells Lukas Kaltenbach
- 12:10 ARPC5 deficiency leads to severe early onset systemic inflammation and early mortality *Elena Sindram*
- 12:40 Lunch Break

Session Chair: Guido Posern

- 13:40 Tissue fluidification in Breast Cancer Progression Giorgio Scita
- 14:10 Spatio-temporal regulation of Rho signaling by the GAP DLC1 Olivier Pertz
- 14:30 Microridge-like structures anchor motile cilia Johannes Wiegel
- 15:20 Concluding remarks
- 15:30 End of meeting
- 17:00 Social activity: "Baden Weinfest"

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 and Toxicology Albertstraße 25 | 79104 Freiburg

Prof. Dr. Robert Grosse robert.grosse@pharmakol.uni-freiburg.de phone: +49 761/203-5301

Dr. Carsten Schwan aaif2@pharmakol.uni-freiburg.de

ORGANIZATION

Medical Center - University of Freiburg Eventmangagement Breisacher Str. 153 | 79110 Freiburg Melanie Springmann veranstaltung@uniklinik-freiburg.de phone: +49 0761/270-84611

www.conftool.com/aaif2023

SPONSORS

www.uniklinik-freiburg.de/aaif/sponsoring



KEYNOTE SUPPORTED BY



Actin Assembly for Intracellular Functions

May, 10th - May, 12th 2023 Freiburg | Germany

Organizing Team Robert Grosse Carsten Schwan



www.uniklinik-freiburg.de/aaif

universitätfreiburg

PROGRAM

WEDNESDAY, 10.05.2023 AFTERNOON

Session: Actin dynamics and signaling Session Chair: Robert Grosse

14:00	Registration
16:20	Opening Remarks
16:30	Keynote Lecture: Regulation of cellular processes by unpolymerised actin <i>Richard Treisman</i>
17:40	MRTF-A gain-of-function in mice impairs homeostatic renewal of the intestinal epithelium Anurag Kumar Singh
18:00	Protein nanogating controls cell surface mechanics Leanne Strauss
18:20	Poster session 1 & Get-Together

PROGRAM

THURSDAY, 11.05.2023 MORNING

Session: Nuclear organization by actin and its regulators Session Chair: Brigitte M. Jockusch

09:30 Nuclear actin in 3D genome organization *Piergiorgio Percipalle*10:00 Moesin functions in the nucleus as a new member of the Mediator complex *Ildikó Kristó*10:20 Signal-regulated calcium transients control nuclear actin filament assembly *Svenja Ulferts*10:40 Coffee Break

Session Chair: Peter Vilmos

11:00	Walking in actin´s footsteps: The role of nuclear myosin VI in DSB repair and DNA replication stress response <i>Hans-Peter Wollscheid</i>		
11:30	Replication fork plasticity upon replication stress requires rapid nuclear actin polymerization <i>Maria Dilia Palumbieri</i>		
11:50	Nuclear N-WASP promotes actin polymerization in the nucleus with cortactin <i>Xin Jiang</i>		
12:10	Regulation of nuclear F-actin assembly in cancer cells <i>Maddy Parsons</i>		
12:40	Lunchbreak		

Afterwards Poster session 2 until 15:00

PROGRAM THURSDAY, 11.05.2023 AFTERNOON

Session: Mechanisms and organization of actin assembly Session Chair: Klemens Rottner

- 15:00 Molecular mechanisms of inorganic-phosphate release from the core and barbed end of actin filaments *Peter Bieling*
- 15:30 Comprehensive model to investigate assembly properties of actin filaments *Marcelo Marucho*
- 15:50 Deciphering the disassembly of fascin-induced actin filament bundles by cofilin *Antoine Jégou*

16:10 Coffee Break

Session Chair: Hugo Wioland

16:40	Podosomes at the molecular scale: insights from in situ cryo-electron tomography <i>Marion Jasnin</i>
17:10	Barbed end depolymerization and pointed end polymerization - turning treadmilling on its head Shashank Shekhar
17:30	Capping protein is required for the cytochalasin B-induced accumulation of VASP at the lamellipodium tip <i>Christopher Lambert</i>
17:50	Poster Session 3: Posters and beer

.

19:30 Buffet Dinner