

**Programme: 2<sup>nd</sup> FOR629 Symposium  
“Molecular Mechanisms of Cell Motility”**

**Thursday, February 16<sup>th</sup> through Friday, February 17<sup>th</sup>  
TwinCore, Hannover Medical Park, Feodor-Lynen-Straße 7**

**Thursday, February 16<sup>th</sup>**

**12:55-13:00 Welcome**

**SESSION: MICROTUBULE DYNAMICS**

**13:00-13:25 Chair: Eckhard Mandelkow (DZNE, Bonn):**

*Tau sorting and missorting: The axon initial segment as a cellular rectifier*

**13:25-13:50 Eva Mandelkow (DZNE, Bonn):**

*Mechanisms of Tau toxicity in cell and animal models of neurodegeneration*

**13:50-14:20 Zeynep Ökten (LMU, Munich):**

*What determines the path of kinesin motors along the microtubules?*

**14:20-14:50 Frank Bradke (DZNE, Bonn):**

*Moderate microtubule stabilization induces axon regeneration by promoting axon regrowth and reducing scarring*

**14:50-15:20 Coffee Break**

**15:20-15:45 Marco van Ham (HZI, Braunschweig):**

*Tubulin modifications and cytoskeleton dynamics*

**15:45-16:15 Eugen Kerkhoff (Univ. of Regensburg):**

*Switching vesicular dynamics: the Spir-2 actin organizer is an Arf1-GDP effector*

**SESSION: MYOSIN MOTORS**

**16:15-16:40 Chair: Dietmar Manstein (Hannover Med. School):**

*Characterization of the actomyosin binding interface*

**16:40-17:20 Martin Bähler (Univ. of Münster):**

*Class IX myosins and Rho-signaling in epithelial and immune cells*

**17:20–17:50 Coffee Break**

**17:50-18:20 Claudia Veigel (LMU, Munich):**

*Unconventional myosin motors at the single molecule level*

**18:20-18:50 Michelle Peckham (Univ. of Leeds):**

*A tale of myosin tails, coiled coils and myosin integration into thick filaments*

**18:50-19:15 Bernhard Brenner (Hannover Med. School):**

*Myosin Stiffness*

**19:15-19:40 Nils Hahn/Walter Steffen (Hannover. Med. School):**

*Investigation of myosin's weak binding state*

**19:40-20:05 Georgios Tsiavaliaris (Hannover. Med. School):**

*Class-1 myosins in mitosis*

**20:05 Dinner and Get Together**

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**Friday, February 17<sup>th</sup>**

**SESSION: STRUCTURE AND BIOPHYSICS**

**08:45-09:15 Chair: Matthias Geyer (MPI, Dortmund):**

*An umbrella shaped nucleation seed for filopodia formation*

**09:15-09:40 Hans Georg Mannherz (Univ. of Bochum):**

*Isolation of actin oligomers and their interaction with actin-binding proteins*

**09:40-10:10 Gregor Witte (Gene Center Munich, LMU):**

*Chromatin remodeler INO80: Arps in the nucleus*

**10:10-10:40 Andreas Bausch (TU, Munich):**

*Cytoskeletal pattern formation: Self organization of driven filaments*

**10:40-11:10 Coffee Break**

**SESSION: REGULATORS OF ACTIN DYNAMICS**

**11:10-11:35 Chair: Klemens Rottner (Univ. of Bonn):**

*Dissecting Arp2/3-complex function in lamellipodium protrusion*

**11:35-12:00 Theresia Stradal (Univ. of Münster):**

*Novel Activators of Arp2/3 Complex, JMY and WHDC1*

**12:00-12:30 Giorgio Scita (IFOM, Milan):**

*Multifunctional actin-regulatory proteins in the control of cell shape and migratory protrusions*

**12:30-13:50 Lunch Break at the MHH Mensa**

**13:50-14:20 Michael Way (London Research Inst.):**

*So what does WIP really do?*

**14:20-14:45 Jan Faix (Hannover Med. School):**

*How Ena/VASP proteins elongate actin filaments*

**SESSION: MIGRATION IN MULTICELLULAR ORGANISMS AND TISSUES**

**14:45-15:15 Kees Weijer (Univ. of Dundee):**

*Collective chemotactic cell migration in development*

**15:15-15:45 Michael Sixt (IST, Austria):**

*Cytoskeletal dynamics driving interstitial leukocyte chemotaxis*

**15:45 Concluding Remarks**

**16:00 End of Meeting and Departure**