3-8 October 2010 Sant Feliu, Spain



Final Programme

Sunday 3 October		
17:00 - 19:00	Registration at ESF Desk	
19:00	Welcome Drink	
19:30	Dinner	
Monday 4 Oct	ober	
Welcome Add	ress	
08:30 - 09:00	Michelle Peckham University of Leeds, UK Pilar Perez - Consejo Superior de Investigaciones Científicas, ES	
Session 1: My	osin Structure and Function	
09:00 - 09:30	Michelle Peckham University of Leeds, UK Diversity in the myosin superfamily	
09:30 - 10:00	Anne Houdusse - Institut Curie, FR How myosin VI moves - answers from structural studies of this reverse motor	
10:00 - 10:15	Jim Sellers - NIH, US <i>Regulation of Drosophila myosin-7a by a binding partner</i> (short talk)	
10:15 - 10:30	Margaret Titus - University of Minnesota, US Chemotactic signalling requires a MyTH/FERM myosin (short talk)	
10:30 - 11:00	Coffee break	
11:00 - 11:30	Claudia Veigel - University of Munich, DE How single myosin motors work under load	
11:30 - 12:00	Justin Molloy - NIMR, UK How actin and myosin are guided by weak forces	
12:00 - 12:15	Dan Mulvihill - University of Kent, UK The recruitment of acetylated and unacetylated tropomyosin to distinct actin polymers permits the discrete regulation of specific myosins in fission yeast (short talk)	
12:15 - 12:30	Matthew Lord - University of Vermont, US Differential regulation of fission yeast myosins via changes in the actin track (short talk)	
12:30	Lunch	

Session 2: Actin Dynamics and Organisation I		
15:30 - 16:00 Coffee Break		
16:00 - 16:30	Marie-France Carlier - CNRS, FR Actin Dynamics	
16:30 - 16:45	Jonathan Terman - University of Texas, US The multi-domain redox enzyme MICAL is a novel F-actin disassembly factor that directly regulates the actin cytoskeleton in response to extracellular guidance cues (short talk)	
16:45 - 17:00	Thomas Iskratsch - King's College London, UK Formin follows function: a muscle specific isoform of FHOD3 is regulated by CK2 phosphorylation and promotes myofibril maintenance (short talk)	
17:00 - 17:30	Jan Faix - University of Hannover, DE Cofilin and fascin cooperate in the disassembly of filopodia	
17:30 - 17:45	Jennifer Gallop - Harvard Medical School, US Self-assembly of filopodia-like structures on supported lipid bilayers (short talk)	
17:45 - 18:00	Metello Innocenti - Netherlands Cancer Institute, NL Role of mDia2 in filopodium formation as revealed by biochemistry (short talk)	
18:00 - 18:15	Sawako Yamashiro - Scripps Research Institute, US Mammalian tropomodulins nucleate actin polymerization via their actin monomer-binding and filament pointed end-capping activities (short talk)	
18:15 - 18:30	Peter Gunning - University of New South Wales, AU <i>Tropomyosin Tn5NM1/2 regulates cell proliferation</i> (short talk)	
19:00	Dinner	
20:30 - 22:00	Poster Session I	
Tuesday 5 Oct	ober	
Session 3: Act	in Dynamics and Organisation II	
09:00 - 09:30	Klemens Rottner - Helmholtz Centre for Infection Research, DE Analysis of Arp2/3-complex function in protrusion	
09:30 - 09:45	John Heuser - Washington University, US Revisiting the ultrastructure of the cytoskeleton (short talk)	
09:45 - 10:00	Rhoda Hawkins - University of Bristol, UK <i>Rebuilding cytoskeletal roads: Active-transport-induced polarisation of cells</i> (short talk)	
10:00 – 10:15	Keren Kinneret - Technion Israel Institute of Technology, IL <i>Actin disassembly "clock" determines lamellipodial morphology</i> (short talk)	
10:15 - 10:30	Florian Huber - University of Leipzig, DE Actin network formation within cell-sized droplets: from star-like clusters to ladder-like stripes (short talk)	
10:30 - 10:45	Group Photo	
10:45 - 11:15	Coffee break	

11:15 - 11:45	Anne Ridley - King's College London, UK Regulation of cytoskeletal dynamics by Rho GTPases
11:45 - 12:15	Pekka Lappalainen - Institute of Biotechnology Helsinki, Fl Assembly and dynamics of actin stress fibers
12:15 - 12:30	Evelyne Bloch-Gallego - Institut Cochin, FR Role of netrin-1, its receptor DCC, tubulin modifications and RhoGTPases in the oriented migration of hindbrain neurons (short talk)
12:30	Lunch
Session 4: Fo	rces and Cell Adhesion in Biology
15:30 - 16:00	Coffee break
16:00 - 16:30	Pierre-François Lenne - Institut de Biologie du Développement de Marseille Luminy, FR Force generation and transmission during tissue morphogenesis
16:30 - 16:45	Antonio Schepis - Stanford University, US Alpha-E-catenin is required for gastrulation cell movement in zebrafish (short talk)
16:45 - 17:00	Di Jiang - University of Bergen, NO Regulation of actin dynamics by actin binding proteins in actomyosin contractile ring that drives notochord cell elongation (short talk)
17:00 - 17:15	Bo Dong - University of Bergen, NO <i>N-WASP-dependent actin dynamics serves as a switch for extracellular lumen or</i> <i>intracellular vacuole formation during ascidian notochord tubulogenesis</i> (short talk)
17:15 - 17:30	Sasha Bershadsky - Weizmann Institute, IL Focal Adhesions as mechanosensors (short talk)
17:30 - 17:45	Ronen Zaidel-Bar - Mechanobiology Institute, SG <i>Regulation of cell-cell adhesion and the cytoskeleton during C. elegans morphogenesis</i> (short talk)
17:45 - 18:00	Pere Roca-Cusachs - Columbia University, US Depletion of alpha-actinin reveals two mechanotransduction steps in cell adhesion (short talk)
19:00	Dinner
20:30 - 22:00	Poster Session II

Wednesday 6 October		
Session 5: For	ce Generation and Cellular Transport	
09:00 - 09:30	Mathias Rief - Ludwigs-Maximilians-Universität München, DE Single molecule mechanics of cytoskeletal proteins	
09:30 - 10:00	Christoph Schmidt - Georg-August-Universität, DE Mechanical communication between cells and environment	
10:00 - 10:15	Julien Husson - Insitut Curie, FR Stiffness-adaptave force generation by primary T cell on surrogate APC: role of the TCR- CD3 complex and LFA1 integrin (short talk)	
10:15 - 10:30	Ross Rounsevell , University of California Berkeley, US <i>Reconstitution of a dynamic actin-myosin II cortex on a giant vesicle scaffold</i> (short talk)	
10:30 - 11:00	Coffee break	
11:00 - 11:30	Patricia Bassereau - Insitut Curie, FR Membrane nanotubes and intracellular traffic	
11:30 - 11:45	Stephanie Miserey-Lenkei - Insitut Curie, FR <i>Rab and acto-myosin dependent fission of transport vesicles at the Golgi complex</i> (short talk)	
11:45 - 12:00	Valeria Piazza - Georg-August-University Göttingen, DE <i>Multi-isotope Imaging mass spectrometry (MIMS) mapping of protein turnover in Hair cells</i> <i>reveals highly stable sterocilia</i> (short talk)	
12:00 - 12:15	Eliza Morris - Harvard University, US <i>Transport in F-actin networks</i> (short talk)	
12:15 - 12:30	David Richmond - University of California Berkeley, US Forming vesicles with cellular features: new tools for cellular reconstitution (short talk)	
12:30	Lunch	
14:00	Half-Day Excursion to Girona (free time)	
19:00	Dinner	
20:00 - 21:00	Forward Look Plenary Discussion	

Thursday 7 October

Session 6: Microtubules and Motors I		
09:00 - 09:30	Anna Akhmanova - Erasmus Medical Centre Rotterdam, NL Control of microtubule dynamics by End Binding proteins and their partners	
09:30 - 10:00	Gero Steinberg - University of Exeter, UK UK Microtubule organization and motors (kinesins) in fungal model systems	
10:00 - 10:30	Carolyn Moores - Birbeck College, UK Linking kinesin motor structure and function: small loops make a big difference	
10:30 - 11:00	Coffee break	
11:00 - 11:30	Peter Rosenthal - NIMR, UK EM Tomography of microtubules and Weibel Palade bodies	
11:30 - 12:00	Stan Burgess - University of Leeds, UK EM Studies of Dynein	

12:00 - 12:30	Takashi Ishikawa - Paul Scherrer Institute, CH Molecular mechanism of flagellar/ciliary bending motion revealed by electron cryo- tomography
12:30	Lunch
Session 7: Mi	crotubules and Motors II
15:30 - 16:00	Coffee break
16:00 - 16:30	Erika Hozbaur - University of Pennsylvania, US Dual functions of dynein: vesicular motor and microtubule tether
16:30 - 16:45	Itushi Minoura - Riken Institute, JP Dissecting the weak binding state of single-headed kinesin KIF1A using mutant microtubules (short talk)
16:45 - 17:00	Jeffrey Woodruff - University of California Berkeley, US <i>Mitotic spindle disassembly occurs via distinct subprocesses driven by the Anaphase-</i> <i>Promoting Complex Aurora B kinase and kinesin-8</i> (short talk)
17:00 - 17:15	Johanna Roostalu - University of Heidelberg, DE CIN8 is a kinesin that switches directionality in response to mechanical constraints (short talk)
17:15 - 17:30	Isabelle Palacios - University of Cambridge, UK Analysis of kinesin-1 function in vivo and in vitro (short talk)
17:30 - 17:45	Leah Gheber - Ben-Gurion University of the Negev, IL Regulation of Kinesin-5 motor protein function during mitosis (short talk)
17:45 - 18:00	Ligon Lee - Rensselaer Polytechnic Institute, US <i>Microtubule reorganization and a switch in tubulin modification from detyrosination to</i> <i>acetylation as epithelial cells transition from 2D to 3D polarity</i> (short talk)
17:00 - 18:15	David Pastre - INSERM, FR <i>Polyamine: Microtubule interactions in the test tube and in cells</i> (short talk)
18:15 - 18:30	Yuyu Song - University of Illinois Chicago, US Stabilisation of neuronal microtubules by polyamines and transglutaminase: its roles in brain function (short talk)
19:00	Reception and Conference Dinner
Friday 8 Octo	ber
08:00	Breakfast and Departure
00.00	

With support from:

