26th Cytoskeletal Club - Programme

Sunday, May 19, 2019

16:00 – 18:30  Registration
18:30 – 20:00  Dinner
20:00 – 21:00  Controlling SCAR/WAVE!

Robert Insall (Beatson Institute, Glasgow, United Kingdom)

21:00 Welcome winetasting

Monday, May 20, 2019

7:30 – 9:00  Breakfast
9:00 – 9:25  WASH komplex attachment to the endosomal membrane
            Tereza Humhalová (Faculty of Science, Charles University, Prague, Czech Republic)
9:25 – 9:50  Characterization of lysosomal trafficking defects in WASH complex-deficient cells
            Vojtěch Dostál (Faculty of Science, Charles University, Prague, Czech Republic)
9:50 – 10:15  Actin cytoskeleton and Myo2 affect the cellular distribution of reversible assemblies
              of the translation initiation factor eIF3a in Saccharomyces cerevisiae
              Ivana Malcová (Institute of Microbiology of the CAS, Prague, Czech Republic)
10:15 – 10:30  Poster flash talks
10:30 – 11:00  Coffee break
11:00 – 11:25  γ-tubulin ability to form filaments and its functions in nuclear processes
              Jana Chumová (Institute of Microbiology of the CAS, Prague, Czech Republic)
11:25 – 11:50  Protein tyrosine phosphatase SHP-1 regulates microtubule nucleation in mouse bone
              marrow-derived mast cells
              Vadym Sulimenko (Institute of Molecular Genetics of the ASCR, Prague, Czech Republic)
11:50 – 12:05  Company presentation

Merck
12:30 – 14:00  Lunch
14:00 – 14:25  Role of RanGTP-importin beta pathway in spindle formation during mammalian
              oocyte meiosis
              David Drutovic (Institute of Animal Physiology and Genetics CAS, Libechov, Czech Republic)
14:25 – 14:50  Tyrosine 90 within SH3 domain - a novel site of Src kinase regulation affecting
              transforming potential and invasiveness
              Lenka Koudelková (Faculty of Science, Charles University, Prague, Czech Republic)
14:50 – 15:15  Src and p130Cas-based biosensors to study focal adhesions mechanics
              Daniel Rösel (Faculty of Science, Charles University, Prague, Czech Republic)
15:15 – 15:30  Company presentation

MGP
15:30 – 16:00  Coffee break
16:00 – 16:25  Intense nanosecond-scale electric field effect on kinesin: molecular dynamics study
              Michal Cifra (Institute of Photonics and Electronics, Czech Academy of Sciences,
              Prague, Czech Republic)
16:25 – 16:50  Computational modeling of mechanical behavior of endothelial cells
              Jakka V. V. S. Varaprasad (Brno University of Technology, Brno, Czech Republic)
16:50 – 17:15 Plectin deficiency weakens mechanical integrity of simple epithelium  
**Magdalena Přechová** (Institute of Molecular Genetics of the ASCR, Prague, Czech Republic)

17:15 – 17:30 Company presentation  
**Sipoch s.r.o.**

17:15 – 18:30 Poster session

18:30 – 20:00 Dinner

20:00 – 21:00 Guided wine tasting

21:00 Discussion with refreshment and a glass of wine

**Tuesday, May 21, 2019**

7:30 – 9:00 Breakfast

9:00 – 9:25 Plant transmembrane formins in endomembrane dynamics and intracellular communication  
**Fatima Cvrčková** (Faculty of Science, Charles University, Prague, Czech Republic)

9:25 – 9:50 Division of labor between actin nucleators – formins and the ARP2/3 complex in *Arabidopsis* epidermal cell morphogenesis  
**Petra Cifrová** (Faculty of Science, Charles University, Prague, Czech Republic)

9:50 – 10:15 The role of AtFH13 formin of class II in *Arabidopsis thaliana* plant  
**Eva Kollárová** (Faculty of Science, Charles University, Prague, Czech Republic)

10:15 – 10:40 Three new lines of *Arabidopsis thaliana* Arp2/3 mutants  
**Erica Bellinvia** (Faculty of Science, Charles University, Prague, Czech Republic)

10:40 – 11:10 Coffee break

11:10 – 11:35 ARP2/3 complex in association with plant peroxisomes  
**Jan Martinek** (Faculty of Science, Charles University, Prague, Czech Republic)

11:35 – 12:00 Flagellar microtubule doublet assembly *in vitro* reveals a regulatory role of tubulin C-terminal tails  
**Markéta Černohorská** (Institute of Molecular Genetics of the ASCR, Prague, Czech Republic)

12:00 – 12:25 The unexpected aspects of the Euglenozoa flagella  
**Galina Prokopchuk** (Institute of Parasitology, Biology Centre CAS, Ceske Budejovice, Czech Republic)

12:25 – 12:30 Closing remarks

12:30 – 14:00 Lunch