

# Scientific programme of the 27<sup>th</sup> cytoskeletal club

Wednesday, September 14, 2022

15:00-17:30 Registration

17:50-18:00 Welcome and introduction

## Session I

18:00-19:00 INVITED SPEAKER  
MAP4Ks drive cathepsin-dependent cell death in response to Salmonella SpvB-induced actin depolymerisation  
**Mitchell Pallett** (*Francis Crick Institute, London, United Kingdom*)

19:15-... Dinner, welcome party

Thursday, September 15, 2022

8:00-9:00 Breakfast

## Session II

9:00-9:25 Centrosomal microtubule nucleation regulates radial migration independently of neuronal polarization in the developing brain  
**Stanislav Vinopal** (*J. E. Purkyně University, Ústí nad Labem, Czech Republic*)

9:25-9:50 Regulation of microtubule nucleation in response to ER stress  
**Vadym Sulimenko** (*Institute of Molecular Genetics, Prague, Czech Republic*)

9:50-10:15 Characterization of TTL11 as a Tubulin Polyglutamylase  
**Jana Nedvěďová** (*Institute of Biotechnology, Vestec, Czech Republic*)

10:15-10:40 Characterization of tardigrade tubulins  
**Kamila Novotná Floriančířová** (*J. E. Purkyně University, Ústí nad Labem, Czech Rep.*)

10:40-11:00 Coffee break

11:00-11:25 Importance of control of CDK activity for spindle function in meiosis  
**Martin Anger** (*Veterinary Research Institute, Brno, Czech Republic*)

11:25-11:50 Spatial distribution of key regulator of chromosome segregation  
**Adéla Horáková** (*Veterinary Research Institute, Brno, Czech Republic*)

11:50-12:50 INVITED SPEAKER  
Constant tension - Actomyosin mediated nuclear force coupling in health and disease  
**Tobias Zech** (*Institute of Systems, Molecular and Integrative Biology, Liverpool, UK*)

13:00-14:00 Lunch

## Session III

14:00-14:25 Formin – the central vacuole? A first glimpse of the role of AtFH1 in the developing Arabidopsis root.  
**Fatima Cvrčková** (*Charles University, Prague, Czech Republic*)

14:25-14:50 Sub-cellular localization of AtFH5-GFP in Arabidopsis thaliana border-like cells  
**Eva Kollárová** (*Charles University, Prague, Czech Republic*)

14:50-15:15 CKAP5 enables seeding of actin bundles by exploratory microtubules  
**Ján Sabó** (*Institute of Biotechnology, Vestec, Czech Republic*)

15:15-15:40 Membrane attachment of WASH complex – master regulator of endosomal actin  
**Tereza Humhalová** (*Charles University, Prague, Czech Republic*)

15:40-16:00 Coffee break

#### Session IV

16:00-17:00	<b>INVITED SPEAKER (virtual)</b> Acetylation regulates the ability of Stu2, an XMAP215/CKAP5 homologue, to interact with gamma-tubulin and modulate chromosome loss <b>Rita Miller</b> ( <i>Oklahoma State University, Stillwater, United States</i> )
17:00-17:15	Company presentation <i>Sipoch</i>
17:15-17:30	Company presentation <i>Sven Biolabs</i>
17:30-17:45	Company presentation <i>Olympus - Evident</i>
18:00-...	Banquet, wine tasting

### Friday, September 16, 2022

8:00-9:00 Breakfast

#### Session V

9:15-9:40	Plectin in Colorectal Carcinoma: Mechanical Stress Drives DNA Damage and Carcinogenesis <b>Petra Burešová</b> ( <i>Institute of Molecular Genetics, Prague, Czech Republic</i> )
9:40-10:05	Role of NAV3 in glioblastoma cells invasiveness <b>Markéta Pelantová</b> ( <i>Charles University, Vestec, Czech Republic</i> )
10:05-10:30	The role of Tead4 in apical domain regulation and blastomere positioning in the preimplantation mouse embryo <b>Rebecca Collier</b> ( <i>University of South Bohemia, České Budějovice, Czech Republic</i> )
10:30-10:45	Coffee break
10:45-11:10	In silico investigation of the functionally active modes of tubulin in microtubules <b>Saurabh Kumar Pandey</b> ( <i>Institute of Photonics and Electronics, Prague, Czech Rep.</i> )
11:10-11:35	The subTHz Microfluidic Chip Based on a Spiral Resonator for Protein Spectroscopy <b>Havlíček Jaroslav</b> ( <i>Institute of Photonics and Electronics, Prague, Czech Rep.</i> )
11:35-11:45	Closing remarks
12:00-...	Lunch