

# 5<sup>th</sup> Czech Cilia meeting

27<sup>th</sup> June 2022

Prague, Institute of Molecular Genetics, building Fc

## PROGRAM:

12:25-12:30 Meeting opening

12:30-13:10 Keynote lecture: **Lotte Bang Pedersen** (UCPH, Denmark)

*Assembly of primary cilia*

## SESSION 1 Chair:

13:10-13:40 **Lukáš Čajánek** (Faculty of Medicine, Masaryk University, Brno)

*Primary cilia: focus on Tau tubulin kinase 2*

13:40-13:50 **Alexandru Nita** (Department of Biology, Masaryk University, Brno)

*Multiple receptor tyrosine kinases interact with the primary cilium*

13:50-14:00 **Peter Gorilák** (Institute of Molecular Genetics, Prague)

*Discovery of the novel ciliary zinc finger protein family*

14:00-14:10 **Justyna Sekretarska** (Nencki Institute of Experimental Biology PAS, Warsaw)

*KLP1 - a non-structural motile cilia protein associated with central microtubules*

14:10-14:20 **Avishek Prasai** (Institute of Molecular Genetics, Prague)

*Role of BBS chaperonins in the Bardet-Biedl syndrome pathology*

14:20-14:50 Coffee break

## SESSION 2 Chair:

14:50-15:20 **Jiří Uhlík** (2nd Faculty of Medicine, Charles University, Prague)

*Primary ciliary dyskinesia – progress in diagnostics and patient detection*

15:20-15:50 **Martina Huranová** (Institute of Molecular Genetics, Prague)

*Cdc42 controls cilia length and receptor turnover during Hedgehog signaling*

15:50-16:00 **Ažběta Filipová** (Faculty of Military Health Sciences, UNOB, Hradec Králové)

*Primary cilia, Hedgehog signaling, and ionizing radiation*

16:00-16:10 **Sara Poovakulathu Abraham** (Masaryk University, Brno)

*Regulation of primary cilia by Ciliogenesis associated kinase 1 (CILK1)*

16:10-16:20 **Olha Ivashchenko** (Institute of Molecular Genetics, Prague)

*Role of primary cilia in bone marrow during hematopoiesis*

16:20-16:30 **Zuzanna Samsel** (Nencki Institute of Experimental Biology PAS, Warsaw)

*From PF16 and PF6 to Tetrahymena central apparatus proteome*

16:30-17:00 Coffee break

**SESSION 3** Chair:

17:00-17:30 **Markéta Schmidt Černohorská** (Max Perutz Labs, Uni Vienna)

*The biomechanical properties of centrosome*

17:30-18:00 **Vladimír Varga** (Institute of Molecular Genetics, Prague)

*The complete set of flagellum tip-localizing proteins*

18:00-18:10 **Michał Niziołek** (Nencki Institute of Experimental Biology PAS, Warsaw)

*Proximo-distal and circumferential differences in ciliary proteins' localization in a ciliated Tetrahymena thermophile*

18:10-18:20 **Marie Zelená** (Institute of Molecular Genetics, Prague)

*Using expansion microscopy to study protein localisation in Trypanosoma brucei*

18:20-18:30 **Kristýna Mašková** (Institute of Molecular Genetics, Prague)

*Searching for the common function of the BBSome across the evolution and development*

18:30-18:40 **Erika Mikulenková** (Faculty of Medicine, Masaryk University, Brno)

*Role of KIF14 in primary cilia*

18:40 onwards – Closing remarks, discussion and “ciliacious” afterparty