



cytokinin forefront research



FORT SCIENCE, OLOMOUC, CZ
5 – 6 SEPTEMBER 2024
Laboratory of Growth Regulators

www.lgr.upol.cz/ckfr2024

DAY 1: Thursday, September 5, 2024

- 12:30 – 14:00 *Registration* *Chair: M. Pernisová*
- 14:00 – 14:10 Welcoming address
- 14:10 – 14:30 **Michał Jasiński**: Cytokinins in and out - how ABC driven transport shapes Medicago root morphology - PART ONE EXPORT
- 14:30 – 14:50 **Joanna Banasiak**: Cytokinins in and out - how ABC driven transport shapes Medicago root morphology - PART TWO IMPORT
- 14:50 – 15:10 **Tomas Werner**: The role of the ERAD pathway in regulating cytokinin responses
- 15:10 – 15:30 **Isabel Bartrina**: Control of flowering time by cytokinin
- 15:30 – 15:50 **Radomíra Vaňková**: Cytokinin functions in abiotic and biotic stress responses
- 15:50 – 16:10 **Sylvia Přerostová**: Involvement of cytokinins in thermotolerance of rice stimulated by blue light pre-treatment
- 16:10 – 16:40 *Coffee Break* *Chair: O. Novák*
- 16:40 – 17:00 **Jan Hejátko**: Cytokinins regulate spatially-specific ethylene production to control root growth in Arabidopsis
- 17:00 – 17:20 **Jan Skalák**: Phytochrome A-dependent phosphorylation of AHP3 regulates cytokinin-mediated photomorphogenesis
- 17:20 – 17:40 **Nadiia Pushkarova**: Virtual screening as a means for new cytokinins search
- 17:40 – 18:00 **Lucia Tomovičová**: PHD-HD proteins: an enigmatic plant-specific transcription factor family
- 18:00 – 18:20 **Alesia Melnikava**: Cytokinin-inducible DIR genes as plant stress regulators
- 18:20 – 18:40 **Markéta Žďárská**: ETR1/AHK5 phosphorelay in root tip
- 19:00 – 23:00 *Dinner & Music*

DAY 2: Friday, September 6, 2024

- 8:00 – 8:30 *Morning Tea* *Chair: K. Hoyerová*
- 8:30 – 8:50 **Katarzyna Retzer**: Down in the underground: current approaches to study root-microbiome interactions in situ to enhance cereal yield
- 8:50 – 9:10 **Markéta Pernisová**: Cytokinins in regulation of in vitro regeneration
- 9:10 – 9:30 **Ján Šmeringai**: The role of cytokinin metabolism in shoot regeneration
- 9:30 – 9:50 **Martin Hudeček**: Equilibrative Nucleoside Transporter 1 drives cytokinin riboside uptake in Arabidopsis roots
- 9:50 – 10:10 **Daniel Nedvěd**: Predicting Transport Properties of ENT1
- 10:10 – 10:40 *Coffee Break* *Chair: K. Doležal*
- 10:40 – 11:00 **Laila Moubayidin**: Role of CYCLIN-P3s in Arabidopsis style development
- 11:00 – 11:20 **David Jaroslav Kopečný**: Structure-function study on plant adenosine kinase phosphorylating adenosine and cytokinin ribosides
- 11:20 – 11:40 **David Zalabák**: Non-canonical cytokinin receptor
- 11:40 – 12:00 **Jakub Hajný**: Sucrose-responsive osmoregulation of plant cell size
- 12:00 – 12:20 **Ivan Petřík**: Tuning of electrospray can mitigate the matrix effect during the analysis of plant hormones with mass spectrometry
- 12:20 – 12:30 Closing remarks
- 12:30 – 14:00 *Lunch*