

# CHEMISTRY AND BIOLOGY OF PHYTOHORMONES AND RELATED SUBSTANCES (CBPRS) 2026

May 18-20, 2026 – Hotel Jelenovská, Valašské Klobouky

## --- CONFERENCE PROGRAMME ---

MONDAY, May 18, 2026

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### *Session 1 (14:00-15:20)*

**Ivan Petřík**

*Matrix effects: An Achilles heel of quantitative LC-MS/MS analysis of plant hormones*

**Kateřina Cermanová**

*A novel LC-MS/MS approach for investigating S-adenosylmethionine metabolism in plants*

**Beata Budíková**

*Study of salicylic acid metabolism in plants using mass spectrometry*

**Tereza Pavlíčková**

*Phytohormones in biostatistics*

--- Coffee Break ---

### *Session 2 (15:50-17:10)*

**David Zalabák**

*CRE1-DWF5: Molecular crosstalk between cytokinin signaling and brassinosteroid biosynthesis*

**Barbora Slovjaková**

*Sugar Flow Engineering: CARMA-ARR7 Tunes Sugar Responsiveness of CANAR*

**Tereza Miksteinová**

*Biosensors in determining the role of gibberellins in the response to osmotic stress in wheat and Arabidopsis*

**Natálie Zemánková**

*Integrative analysis of the barley mutant chlorina f2<sup>f2</sup> reveals coordinated changes in photosynthesis, hormone homeostasis, and stress responses*

--- Dinner ---

### *Evening program (19:30-20:30)*

**Zapíjení aneb když ve městě zaprší (Drowning Sorrows, or When It Rains in the City) – 27 min., 2025 | Jaký kraj, takové lidé. Lidé a krajina na Dražanské vrchovině (As the Land, So the People: People and Landscape of the Dražany Highlands) – 26 min., 2026**  
*Projection of two short documentary films from Ota Blahoušek production. (In Czech with English subtitles)*



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TUESDAY, May 19, 2026

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### *Session 3 (8:30-10:10)*

**Asta Žukauskaitė**

*Natural abundance of 4-Cl-IAA and its metabolites in plants*

**Marek Benda**

*Development of a new method for the detection of enzymatic oxidation of auxins and related compounds*

**Iva Kuštović**

*CRISPR induced mutation of phytohormone amido-synthetase GH3B in *Marchantia polymorpha**

**Jakub Lemberk**

*Flowing with plants: Unlocking secrets with Cytometry*

*Sponsor presentation: **KRD***

--- Coffee Break ---

### *Session 4 (10:40-12:00)*

**Kristýna Šomodiová**

*Anti-inflammatory and cytoprotective effects of 8-azapurines*

**Helena Kordinová**

*Towards improved in vitro models for neurodegenerative disease drug discovery*

**Beáta Kubaláková**

*Technologically efficient approaches to the preparation of cytokinin conjugates with anti-senescence effects and potential application in human skin models*

*Sponsor presentation: **Chromservis***

--- Lunch ---

### *Afternoon program (14:00-18:00)*

*Visit of the hat-making workshop ([www.klobuckamanufaktura.cz](http://www.klobuckamanufaktura.cz)) / free time*

--- Dinner ---

### *Evening program (19:30-20:30)*

**Sběratelé kratomu (The Kratom Collectors) – 52. min., Czech Republic, 2024**

*AFO documentary film projection. (In Czech with English subtitles)*



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WEDNESDAY, May 20, 2026

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### *Session 5 (8:50-10:10)*

**Veronika Kollárová**

*Exploring tetrahydro-3H-pyrazolo[4,3-f] quinolines for tubulin-targeted anticancer therapy*

**Šimon Vaško**

*Degradation of cyclin K and its impact on tumor cell proliferation*

**Dominika Trofimenková**

*Novel disubstituted 1,2-diselenoles with stronger cytoprotective activity than Ebselen*

**Jana Mastná**

*Synthesis and biological activity of C2-substituted purine derivatives*

--- Coffee Break ---

### *Session 6 (10:40-12:00)*

*Sponsor presentation: **Waters***

**Jan Strnad**

*Comparative study of gas chromatography and photoacoustic detection for measuring endogenous ethylene in plants*

**Ivan Filipský**

*Seaweed extract alleviates nutrient deficiency in cucumber seedlings under hydroponic conditions*

**Mersa Darbandsari**

*Effect of stress on ethylene and other phytohormone levels in Arabidopsis*

--- Lunch ---

*Bus departure – 13:30*



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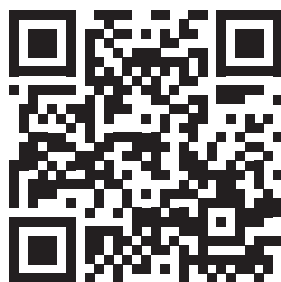




**SMART**  
Plant Biotechnology  
for Sustainable Agriculture

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<https://lqr.upol.cz/smart-projekt/>*

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<https://lqr.upol.cz/cbprs2026>



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