

CHEMISTRY AND BIOLOGY OF PHYTOHORMONES AND RELATED SUBSTANCES 2024 (May 26-28, Radějov)

--- SCIENTIFIC PROGRAM ---

SUNDAY, May 26, 2024

Session 1 (13:30-14:45)

Veronika Kábrtová

Similarities and differences in the action of aromatic (N6-benzyladenine) and urea (MTU) antisenescence compound in Arabidopsis (from genes to physiological response)

Ivan Petřík

Novel methods for determination of plant hormones in a plant tissue

Pavel Hladík

Are phenylacetic acid and indole-3-acetic acid metabolic pathways mirror images?

Kateřina Cermanová

The Yang cycle as a link connecting ethylene and polyamine biosynthesis

Klára Supíková

Identification and characterization of unknown sulfated metabolites in plants, algae and fungi

--- Coffee Break ---

Session 2 (15:15-16:30)

Ludmila Včelařová

The endoplasmic reticulum: master regulator of auxin intracellular metabolism and transport

Beata Budíková

Using mass spectrometry for study of salicylic acid metabolism in plants

Andrea Kosinová

Correland^{sw}: Correlation networks from LC-MS data

Ivan Filipský

Effects of new cytokinin derivatives and plant biostimulants on seed germination, growth and development of food crops

Jan Strnad

Induction of ethylene production by urea based cytokinin analogues

--- Coffee Break ---

Session 3 (17:00-18:00)

Guest Presentation: Kateřina Chudová (MUNI) - Artificial intelligence (AI)

MONDAY, May 27, 2024

Session 4 (8:45-10:00)

Daniel Chrenko

Bioactive lipids: synthesis and application of nitro fatty acids

Markéta Fuksová

Towards the development of a novel generation of plant growth retardants

Dardan Klos

Water-soluble cytokinins: exploring their crystal structure and impact on crop yield

Beáta Kubaláková

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

Chromservis Presentation

--- Coffee Break ---

Session 5 (10:30-12:00)

Tereza Miksteinová

Hormonal regulation of responses to drought and osmotic stress in Arabidopsis roots and shoots

David Šimek

Molecular mechanisms of interaction of light signaling pathways and aquaporins in plant tolerance to abiotic stresses

Petra Bublavá

Crosstalk between light and ABA signaling pathways in plant responses to abiotic stresses

Natálie Závorková

Understanding Drought Response: ABA and PHOT Signaling Pathways in Plant Physiology

Jakub Bělíček

An unusual reversible prenylation on human ALDH9A1

Bio-Rad Presentation

--- Lunch (12:30) ---

Conference Trip (13:45-17:30)

--- Dinner (18:30) ---

Wine Cellar (19:00-??)

TUESDAY, May 28, 2024

Session 6 (8:30-9:30)

Kristýna Šomodiová

A-172 Cell Line Treated with Lipopolysaccharides as a Model of Neuroinflammation

Petr Voňka

Synthesis and characterization of silica nanoparticles functionalized with titanocene derivatives

Miroslav Peřina

Synthesis and estrogenic activity of BODIPY-labeled estradiol conjugates

Dominika Trofimenková

Optimization of a method for use in studying mitochondrial complexes and supercomplexes in human cells

--- Coffee Break ---

Session 7 (10:00-11:45)

Martin Hudeček

Equilibrative Nucleoside Transporter 1 drives cytokinin riboside uptake in Arabidopsis roots

Mersa Darbandsari

Effect of stress on ethylene and other phytohormone levels in Arabidopsis

Karolína Vagaská

Alternative splicing of CRE1 receptor

Anita Ament

Disclosing GH3-mediated inactivation mechanisms that govern auxin homeostasis in plants

Sarstedt Presentation

--- Lunch (12:30) ---