

13th Student Days of Experimental Plant Biology

Brno, 7th to 8th September 2015

Programme

Monday, September 7, 2015

- 8:00-9:00 **Registration** - Faculty of Business and Economics - building Q, Mendel University
- 9:00-9:20 **Opening Words**
- 9:20-10:20 **Lectures, section 1** - hall Q01
- 9:20-9:35 **Vojtěch Čermák**, Lukáš Fischer: ANALYZING THE ROLE OF ARGONAUT-BINDING DOMAIN OF SPT6L IN RNAi **(L1-1)**
- 9:35-9:50 **Jan Martínek**, Petra Schiebertová, Lenka Sikorová, Jan Petrášek, Kateřina Schwarzerová: ARP2/3 COMPLEX ASSOCIATES WITH PEROXISOMES IN PLANT CELLS **(L1-2)**
- 9:50-10:05 **Tereza Šnajdrová**, Aleš Soukup: EFFECT OF AHL18 ON ROOT ARCHITECTURE OF *ARABIDOPSIS THALIANA* **(L1-3)**
- 10:05-10:20 **Dimitrij Tyč**, Adéla Přibylová, Lukáš Fischer: CAN PLANT CELLS IMPORT sRNAs FROM APOPLAST? **(L1-4)**
- 10:20-10:40 *Coffee break*
- 10:40-12:10 **Lectures, section 2** - hall Q01
- 10:40-10:55 **Jan Buček**, Marek Zatloukal, Lucie Plíhalová, Libor Havlíček and Karel Doležal: SYNTHESIS OF SELECTED ISOTOPICALLY LABELED PURINE DERIVATIVES **(L2-1)**
- 10:55-11:10 **Lucia Gallová**, Zoila Gandara, Václav Bazgier, Karel Berka, Lukáš Spíchal: 9-DEAZA CYTOKININ ANALOGUES AS A TOOL TO STUDY *ARABIDOPSIS* HISTIDINE KINASE 4 BINDING PROPERTIES **(L2-2)**
- 11:10-11:25 **Martin Hönig**, Lucie Plíhalová, Jiří Voller, Alena Rajnochová Svobodová, Jitka Vostálová, Jitka Ulrichová, Karel Doležal: PREPARATION AND BIOLOGICAL ACTIVITY OF KINETIN LIKE AROMATIC CYTOKININS **(L2-3)**
- 11:25-11:40 **Jan Humplík**, Véronique Bergougnoux, Martin Fellner: ENDOGENOUS ABSCISIC ACID PROMOTES GROWTH OF ETIOLATED HYPOCOTYL (SKOTOMORPHOGENESIS) IN TOMATO SEEDLINGS **(L2-4)**
- 11:40-11:55 **Pavel Jaworek**, David Kopečný, Kateřina Podlesaková, Jana Malá, Petr Tarkowski: AROMATIC CYTOKININS IN POPLAR **(L2-5)**
- 11:55-12:10 **Helena Melkovičová**, Eva Pilařová, Alexandra Husičková, Martina Špundová: EFFECT OF 6-BENZYLAMINOPURINE ON INDUCED SENESCENCE OF CYTOKININ RECEPTOR MUTANTS OF *ARABIDOPSIS THALIANA* UNDER DARK AND LIGHT **(L2-6)**
- 12:10-13:00 *Lunch*
- 13:00-14:00 **Poster session**
- 14:00-15:30 **Lectures, sections 2 and 3** - hall Q01
- 14:00-14:15 **Roman Skokan**, Petr Skůpa, Markéta Fílová, Karel Müller, Jan Petrášek: CARRIER-MEDIATED AUXIN TRANSPORT IN ALGAE **(L2-7)**
- 14:15-14:30 **Wojciech Jesionek**: GENOMICS OF SEX CHROMOSOMES IN *RUMEX ACETOSA* **(L3-1)**
- 14:30-14:45 **Daniela Konrádová**, Hana Kozubíková, Miroslav Strnad, Jiří Pospíšil: CREATING A 'COMPREHENSIVE DICTIONARY' OF LIGNANS: APPLICATION TO TOTAL SYNTHESIS OF SANGUINOLIGNAN A **(L3-2)**
- 14:45-15:00 **Michaela Saganová**, Andrej Pavlovič: REGULATION OF ENZYMES ACTIVITY IN RESPONSE TO DIFFERENT STIMULI FROM PREY IN THE CARNIVOROUS GENUS *NEPENTHES* **(L3-3)**

15:00-15:15	Vladimír Skalický , Radim Simerský, Ivo Chamrád, René Lenobel, Jana Uřinovská, Miroslav Strnad: ISOLATION OF <i>ARABIDOPSIS</i> ENDOPLASMIC RETICULUM BY SUCROSE GRADIENT ULTRACENTRIFUGATION AND ITS PROTEOMIC CHARACTERIZATION (L3-4)
15:15-15:30	Jan Šimura , Danuše Tarkowská, Karin Ljung, Ondřej Novák: A NOVEL TARGETED METABOLOMIC APPROACH IN PLANT HORMONE ANALYSIS (L3-5)
15:30-16:00	<i>Coffee break</i>
16:00-17:30	Lectures, sections 4, 5 and 7 - hall Q01
16:00-16:15	Stanislav Juráň , Silvano Fares, Flavia Savi, Kamil Křůmal, Zbyněk Večeřa, Otmar Urban: EMISSIONS OF BIOGENIC VOLATILE ORGANIC COMPOUNDS ABOVE THE PERI-URBAN MEDITERRANEAN HOLM OAK FOREST AND TEMPERATE NORWAY SPRUCE FOREST (L4-1)
16:15-16:30	Tibor Stolárik , Hedtke B., Grimm B., Ilík P., Pavlovič A.: REGULATION OF LIGHT-INDEPENDENT CHLOROPHYLL BIOSYNTHESIS IN NORWAY SPRUCE (<i>PICEA ABIES</i>) (L4-2)
16:30-16:45	Jan Fedorko , Búzová D., Červený J.: BREEDING OF HIGH-LIPID CONTENT STRAINS OF MICROALGAE <i>CHLAMYDOMONAS REINHARDTII</i> BY FLUORESCENCE-ACTIVATED CELL SORTING (L5-1)
16:45-17:00	Petra Očenášová , Tomáš Zavřel, Maria Sinetová, Diana Búzová, Petra Literáková, Jan Červený: CHARACTERIZATION OF MICROALGAE GROWTH USING FLAT PANEL PHOTOBIOREACTOR (L5-2)
17:00-17:15	Tomáš Vlčko , Jana Vašková, Ludmila Ohnoutková: TRANSGENOSIS FOR INCREASED SEED PHYTASE ACTIVITY (L5-3)
17:15-17:30	Veronika Kováčiková , Heilmann Mareike, Obložinský Marek, Vatehová Zuzana, Heilmann Ingo: ROLE OF PHOSPHOLIPID SIGNALLING IN OPIUM POPPY (L7-1)
17:30-17:50	<i>Coffee break</i>
17:50-18:20	Lectures, section 7 - hall Q01
17:50-18:05	Miroslav Krausko , Andrej Pavlovič: SIGNALS LEADING TO SECRETION OF DIGESTIVE ENZYMES IN CARNIVOROUS PLANT <i>DROSERA CAPENSIS</i> RESEMBLE WELL-KNOWN DEFENSE SIGNALING (L7-2)
18:05-18:20	Zuzana Materová , Petr Vítek, Michal Štroch, Vladimír Špunda: CHANGES IN THE AMOUNT OF LUTEIN 5,6 EPOXIDE IN A SPRUCE SEEDLINGS DURING ACCLIMATION TO DIFFERENT LIGHT CONDITIONS (L7-3)
18:20-18:50	Poster session
19:00	Gala dinner

Tuesday, September 8, 2015

8:00-9:30	Lectures, sections 7 and 8 - hall Q01
8:00-8:15	Anna Mrázová , Peter Paľove-Balang, Mária Vilková, Adriana Eliašová: PRODUCTION OF SECONDARY METABOLITES IN MODEL LEGUME <i>LOTUS JAPONICUS</i> DUE TO DROUGHT STRESS (L7-4)
8:15-8:30	Pavel Svoboda , Anna Janská, Vojtěch Spiwok, Jaroslava Ovesná: TRANSCRIPTOMIC ANALYSIS OF COUCH GRASS (<i>ELYMUS REPENS</i> L.) RHIZOMES EXPOSED TO SHORT-TERM DEHYDRATION (L7-5)
8:30-8:45	Barbora Veselá , Kateřina Novotná, Petra Rajsnerová, Karel Klem, Otmar Urban: THE EFFECT OF UV RADIATION AND NITROGEN NUTRITION ON ACCUMULATION OF FLAVONOIDS AND PHOTOSYNTHETIC PARAMETERS IN SUNFLOWER (L7-6)
8:45-9:00	Eliška Vicherová , Tomáš Hájek: ESTABLISHMENT OF CALCIUM-INTOLERANT <i>SPHAGNUM</i> MOSSES IN ALKALINE PEATLANDS (L7-7)

- 9:00-9:15 **Martin Janda**, Šašek Vladimír, Nováková Pavla, Eric Ruelland, Lenka Burketová, Olga Valentová: THE CONNECTION BETWEEN PHOSPHATIDYLINOSITOL-4-KINES AND SALICYLIC ACID SIGNALLING PATHWAY **(L8-1)**
- 9:15-9:30 **Krutinová Hana**, Vladimír Matěj Šašek, Petre Ivanov Dobrev, Lenka Burketová and Lucie Trdá: THE ROLE OF AUXINS IN THE INTERACTION OF PLANT AND A HEMIBIOTROPHIC PATHOGEN **(L8-2)**
- 9:30-10:00 *Coffee break*
- 10:00-11:30 **Lectures, sections 9, 10 and 11** - hall Q01
- 10:00-10:15 **Martina Hájičková**, Roman Plichta, Roman Gebauer: EFFECTS OF WATER DEFICIENCY AND WATERING ON ANATOMY AND PHYSIOLOGY OF EUROPEAN BEECH SEEDLINGS **(L9-1)**
- 10:15-10:30 **Radek Jupa**, Lenka Plavcová, Barbora Flamiková, Vít Gloser: PERIODICAL FLUCTUATIONS IN WATER AVAILABILITY SIGNIFICANTLY AFFECT TRANSPORT IN XYLEM OF LIANA *HUMULUS LUPULUS* L. **(L9-2)**
- 10:30-10:45 **Justyna Pietras**, Marko Stojanović, Tereza Šlancarová, Pavlina Konrádová, Radek Pokorný: TRANSPIRATION AND BIOMASS ALLOCATION OF SESSILE OAK SEEDLINGS AND SPROUTS IN RELATION TO SOIL WATER CONDITIONS **(L9-3)**
- 10:45-11:00 **Petr Trunda**, Petr Holub, Karel Klem: THE EFFECT OF NITROGEN FERTILIZATION AND DROUGHT ON THE MORPHOMETRY, PRODUCTION AND SPECTRAL CHARACTERISTICS OF WINTER WHEAT **(L9-4)**
- 11:00-11:15 **Václav Bačovský**, Tomáš Vyhnánek, Pavel Hanáček, Ivana Šafránková, Václav Trojan, Josef Mertelík: THE USE OF MOLECULAR MARKERS IN THE IDENTIFICATION OF HORSE CHESTNUT TREES WITH THE DIFFERENT SUSCEPTIBILITY TO THE LEAF MINER *CAMERARIA OHRIDELLA* **(L10-1)**
- 11:15-11:30 **Irena Barányiová**, Karel Klem: INFLUENCE OF MIX APPLICATION PLANT GROWTH REGULATORS ON PHYSIOLOGICAL PARAMETERS, YIELD AND QUALITY CHARACTERISTICS OF WINTER WHEAT GRAIN UNDER DRY CONDITIONS **(L10-2)**
- 11:30-11:45 **Wutthida Rattanapichail**, Karel Klem: EFFECTS OF SOME NUTRIENTS (N, P, K) DEFICIENCIES ON ROOT ARCHITECTURE AND GROWTH OF WINTER WHEAT **(L10-3)**
- 11:45-12:00 **Rajsnerová Petra**, Karel Klem, Kateřina Novotná, Barbora Veselá, Kristýna Večeřová, Otmar Urban, Michal V. Marek: DOWN-REGULATION OF PHOTOSYNTHESIS UNDER ELEVATED CO₂ CONCENTRATION: EFFECT OF NITROGEN AND ACCUMULATION OF CARBOHYDRATES **(L11-1)**
- 12:00-12:30 **Closing remarks, awards for the best lectures**

Changes reserved.