

## Thursday, 14 September 2017

### Session 3: Plants and abiotic stresses

Chair: **Agnieszka Sirko** and **Danuta M. Antosiewicz**

09:00 – 10:30 **Plenary Lectures:**

09:00 – 09:30 **Céline Masclaux-Daubresse** (France), Qinwu Chen, Anne Marmagne, Liliana Avila-Ospina, Anne Guiboileau: Autophagy machinery, leaf senescence and nitrogen remobilization in *Arabidopsis thaliana*

09:30 – 10:00 **John Hammond** (United Kingdom), Abdul Baten, Justin Bloomfield, Graham King: The role of DNA methylation in regulating plant adaptations to low phosphate availability

10:00 – 10:30 **Ann Cuypers** (Belgium): Metal-induced oxidative challenge: from perception and signal transduction to plant acclimation and growth

10:30 – 12:00 **Oral Presentations:**

10:30 – 10:45 **Arita Kuś** (Poland), Jolanta Kwaśniewska, Robert Hasterok: Multicolour FISH-based analysis of the origin of mutagen-induced micronuclei in *Brachypodium distachyon*

10:45 – 11:00 **Rafał Kreła** (Poland), Krzysztof Leśniewicz: Amino acids motifs responsible for activity properties of S1/P1-like nucleases involved in plant PCD

11:00 – 11:15 **Katarzyna Sala** (Poland), Ewa Kurczyńska: Apoplast markers of cell differentiation – spatio-temporal analysis of the autografted *Arabidopsis* seedlings

11:15 – 11:30 **Magdalena Krzesłowska** (Poland), Irena Rabęda, Teresa Lehmann, Ewa J. Mellerowicz, Mirosław Mleczek, Anna Napieralska, Sławomir Samardakiewicz, Dariusz J. Smoliński, Szymon Suski, Adam Woźny: Plant cell wall in Pb accumulation and tolerance

11:30 – 11:45 Kinga Wcisła, Aleksandra Wojcińska, Joanna Siwińska, Ewa Łojkowska, **Anna Ihnatowicz** (Poland): Genome-wide association studies of *Arabidopsis thaliana* responses to disturbed iron and manganese homeostasis

11:45 – 12:00 **Aneta Piechalak** (Poland), Anetta Hanc, Tomasz Skrzypczak, Liliana Ciszewska, Arleta Malecka, Danuta Baralkiewicz, Agnieszka Kutrowska: Chelant-assisted phytoextraction and accumulation of Zn by *Zea mays*

12:00 – 12:15 Coffee break

12:15 – 13:30 **Oral Presentations:**

12:15 – 12:30 **Jarosław Tyburski** (Poland), Monika Skorupa, Marcin Gołębiewski, Krzysztof Klamkowski, Katarzyna Wójcik, Waldemar Treder, Andrzej Tretyn: Transcriptomic response to a salt stress and salt shock in leaves of sugar beet (*Beta vulgaris*, ssp *vulgaris*) and its halophytic ancestor, *Beta vulgaris* ssp. *maritima*

12:30 – 12:45 **Wojciech Rymaszewski** (Poland), Denis Vile, Christine Granier, Jacek Hennig: Coupling high-throughput phenotyping and gene expression analyses to study the natural variation of morpho-physiological and molecular responses to long-term water deficit in *Arabidopsis thaliana*

12:45 – 13:00 **Damian Gruszka** (Poland), Anna Janeczko, Michał Dziurka, Ewa Pociecha, Jana Oklestkova, Iwona Szarejko: Barley brassinosteroid mutants provide an insight into phytohormonal homeostasis under control condition and during plant reaction to drought stress

13:00 – 13:15 **Michał Rurek** (Poland), Magdalena Czołpińska, Witold Nowak, Tomasz Pawłowski, Aleksandra M. Staszak, Tomasz Spizewski, Włodzimierz Krzesiński: Mitochondrial

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response to the various water deficiency conditions in three cultivars of cauliflower  
13:15 – 13:30 **Marzena Kurowska** (Poland), Dorota Świergolik, Iwona Szarejko: The tonoplast intrinsic protein (TIP) gene subfamily of aquaporins in barley: structural features and expression profiles during drought stress

13:30 – 15:00 Lunch provided

### Session 4: Signalling in biotic interactions

Chair: **Jacek Hennig** and **Iwona Morkunas**

15:00 – 17:00 **Plenary Lectures:**

15:00 – 15:30 **Sophien Kamoun** (United Kingdom): The long reach of the effectors of plant associated organisms

15:30 – 16:00 **Saskia Hogenhout** (United Kingdom): How bacteria hack plant development to attract insect vectors

16:00 – 16:30 Bettina Johst, Hannah Jaspar, Michael Bitterlich, Philipp Franken, **Christina Kühn** (Germany): Plant factors affecting the symbiosis between arbuscular mycorrhizal fungi and the host plant root system

16:30 – 17:00 Karolina Jarzyniak, Joanna Banasiak, Martin Di Donato, Markus Geisler, **Michał Jasiński** (Poland): Cytokinin transporter from the ABC family in legume rhizobia symbiosis

17:00 – 17:15 Coffee break

17:15 – 18:30 **Oral Presentations:**

17:15 – 17:30 **Ton Timmers** (France), Judith Fliegmann, Nikita Malkov, Julie Cullimore, Jean-Jaques Bono: Nod factor perception and signal transduction during endosymbiotic interactions of *Medicago truncatula*

17:30 – 17:45 Mariola Piślewska-Bednarek, Ryohei Thomas Nakano, Kei Hiruma, Marta Pastorczyk, Suthitar Singkaravanit-Ogawa, Paul Schulze-Lefert, **Paweł Bednarek** (Poland): Analysis of *gstu13* plants uncouples two putative signaling functions of indole glucosinolate metabolism products in flg22-triggered immune responses in *Arabidopsis*

17:45 – 18:00 **Agnieszka Woźniak** (Poland), Van Chung Mai, Kinga Drzewiecka, Jacek Kęsy, Łukasz Marczak, Dorota Narożna, Renata Rucińska-Sobkowiak, Waldemar Bednarski, Iwona Morkunas: The sequence of enhanced generation of *Pisum sativum* defense signalling molecules in response to pea aphid infestation

18:00 – 18:15 **Justyna Nawrocka** (Poland), Monika Skwarek, Katarzyna Jas, Magdalena Szczech, Urszula Małolepsza: The role of metabolic components, volatile compounds, PR proteins and mechanical strengthening in multilayer protection of cucumber plants against *Rhizoctonia solani* induced by *Trichoderma atroviride* TRS25

18:15 – 18:30 **Zhimin Yin** (Poland): miRNAs and mRNA targets in potato-PVY pathosystems

18:30 – 19:30 **Poster sessions 3-4**

20:30 – 00:00 **Conference Party**