



ACPD 2023

Auxins and Cytokinins in Plant Development 2023

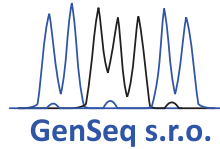
... and cross-talk with other phytohormones in interactions
with the changing environment

International Symposium 2023

June 25-29, 2023 | Prague, Czech Republic

PROGRAMME

PARTNERS



The International Symposium is implemented with the financial support of the capital city of Prague.



prague
city tourism



GENERAL INFORMATION

Organized by



Institute of Experimental
Botany of the AS CR, v. v. i.

Local Organizing Committee

Chairs

Klára Hoyerová
Jan Petrášek
Radomíra Vaňková

Members

Pétre I. Dobrev
Petr Klíma
Václav Motyka
Karel Müller
Sylva Přerostová
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AUSPICES

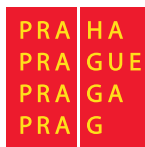
The symposium will be held under the auspices of

prof. RNDr. Eva Zažímalová, CSc.
President of the Czech Academy of Sciences

doc. MUDr. Bohuslav Svoboda, CSc.
Mayor of Prague



Czech Academy
of Sciences



WELCOME ADDRESS

Dear colleagues.

We cordially invite you to the Auxins and Cytokinins in Plant Development Symposium (ACPD), traditionally held in Prague. ACPD 2023 is the tenth in a row, and for 2023 we have decided to emphasize the role of these two important phytohormones in plant response to ever-changing environmental conditions. We hope to create an informal atmosphere that will inspire not only auxin and cytokinin experts, but also other professionals in the field of plant developmental biology. Despite the difficulties associated with anti-covid restrictions over the past two years, several outstanding reports have been completed recently, bringing unique discoveries in auxin carrier structures and deciphering some surprising players in the rapid action of auxin. In the case of cytokinins, the inspiration is certainly to be found in their important role in the diverse responses of plants to environmental factors, which provide an opportunity for targeted DNA editing of plant genomes. We look forward to bringing to Prague the full range of scientists behind all these fascinating results and, as always, to launching original collaborative projects. We are convinced that your active participation will make our meeting even more inspiring and surprising, both scientifically and socially.

Welcome to Prague.

Welcome to ACPD 2023.

On behalf of the organizers

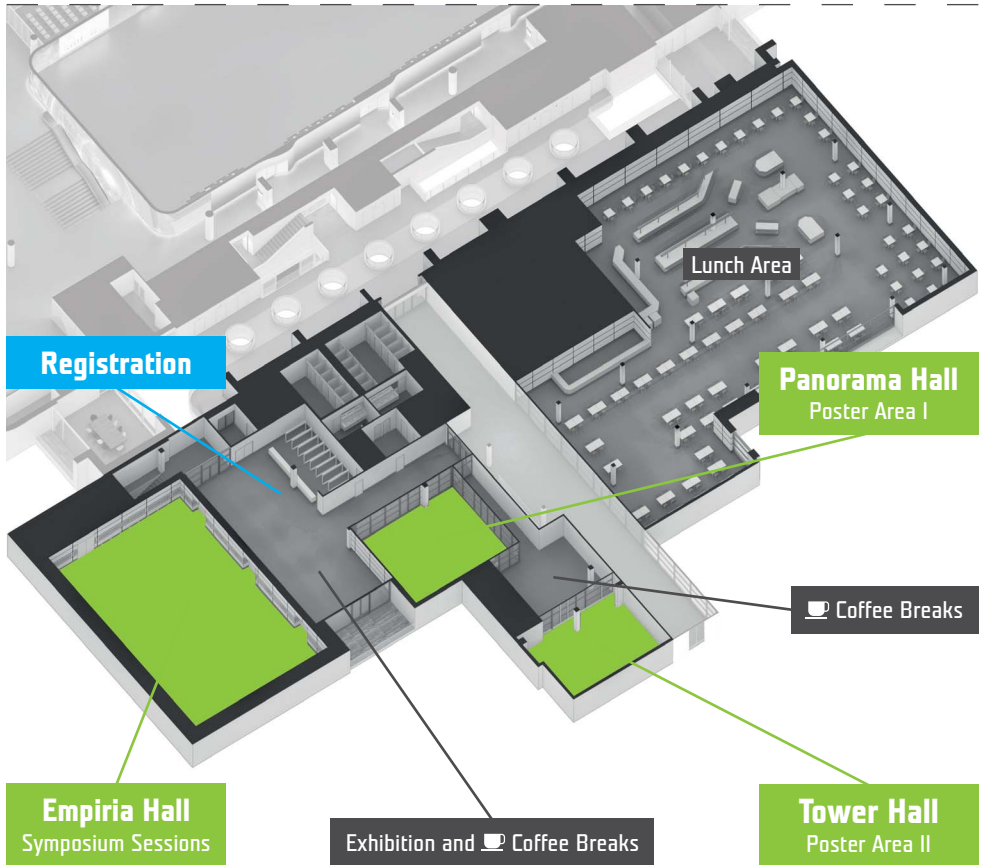
Klára Hoyerová and Jan Petrášek



SYMPOSIUM VENUE

Conference Centre City

Na Strži 1702/65
140 00 Prague 4
Czech Republic



PROGRAMME AT A GLANCE

Saturday, June 24, 2023

16:00–19:00 Registration and poster mounting

Sunday, June 25, 2023

09:00–09:20 Opening of the Symposium

09:20–10:40 Symposium Opening Lectures

10:40–11:10 Coffee break

11:10–13:00 Biosynthesis and metabolism – Session to commemorate the legacy of Mirek Kamínek

13:00–14:30 Lunch break

14:30–16:00 Biosynthesis and metabolism

16:00–16:30 Coffee break

16:30–18:15 Novel Methods and Techniques

18:30–20:00 Welcome Cocktail

Monday, June 26, 2023

09:00–10:55 Transport

10:55–11:20 Coffee break

11:20–13:00 Transport

13:00–14:30 Lunch break

14:30–16:00 Signalling

16:00–16:30 Coffee break

16:30–18:00 Signalling

18:00–21:00 Poster session I (with light refreshment)

Biosynthesis and Metabolism, Novel Methods and Techniques, Transport, Signalling, Development




Tuesday, June 27, 2023

- 09:00–10:45 Signalling
- 10:45–11:15 Coffee break
- 11:15–13:05 Development (shoot)
- 13:05–14:30 Lunch break
- 14:30–16:25 Development (shoot)
- 18:30–21:30 Symposium Dinner
- 21:00–00:00 Jazz Concert

Wednesday, June 28, 2023

- 09:00–10:45 Development (vasculature)
- 10:45–11:15 Coffee break
- 11:15–13:05 Development (root)
- 13:05–14:30 Lunch break
- 14:30–16:00 Development (evolution)
- 16:00–16:25 Coffee break
- 16:25–18:00 Interactions and Cross-talk
- 18:00–21:00 Poster session II (with light refreshment)
Development, Interactions and Cross-talk, Responses to Environmental Stimuli

Thursday, June 29, 2023

- 09:00–10:40 Interactions and Cross-talk
 - 10:40–11:10 Coffee break
 - 11:10–13:00 Responses to Environmental Stimuli
 - 13:00–14:30 Lunch break
 - 14:30–16:10 Responses to Environmental Stimuli
 - 16:10–16:20 Closing of the Symposium
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DETAILED PROGRAMME

Last update on June 22, 2023. Programme subject to change.

Saturday, June 24, 2023

16:00–19:00 Registration and poster mounting

Sunday, June 25, 2023

09:00–10:40 Opening of the Symposium

Chair: Jan Petrášek

09:00–09:10 Half century of ACPD – believe it or not

Klara Hoyerová and Jan Petrášek

09:10–09:20 Welcome address

Eva Zažímalová – president of the Czech Academy of Sciences

09:20–10:00 **Symposium Opening Lecture: Hormonal regulation of root development: auxin and cytokinin cross-talk and beyond**

Eva Benková

Institute of Science and Technology Austria, Klosterneuburg, Austria

10:00–10:40 **Symposium Opening Lecture: Root developmental plasticity: challenges and new insights**

Joseph Dubrovsky

Instituto de Biotecnología, Universidad Nacional Autónoma de México (UNAM), Cuernavaca, Mexico

10:40–11:10 Coffee break

11:10–13:00 **Biosynthesis and metabolism – Session to commemorate the legacy of Mirek Kamínek**

Chair: Miroslav Strnad

11:10–11:50 **Session Opening Lecture: Exploration of novel genes involved in cytokinin and auxin metabolisms using natural variations in rice**

Hitoshi Sakakibara

Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan

11:50–12:15 **Control of cytokinin responses by endoplasmic reticulum-associated degradation of CKX proteins**

Tomáš Werner

University of Graz, Graz, Austria

- 12:15–12:30 **Amino acid conjugation of oxIAA is a secondary metabolic regulation involved in auxin homeostasis**
 Federica Brunoni
Laboratory of Growth Regulators & the Czech Academy of Sciences, Institute of Experimental Botany, Faculty of Science, Palacký University Olomouc, Olomouc, Czech Republic
- 12:30–12:45 **Mass spectrometric screening of IAA metabolism in cultured cells and plants; detection of the auxin decarboxylation pathway**
 Petre I. Dobrev
Institute of Experimental Botany of the Czech Academy of Sciences, Prague, Czech Republic
- 12:45–13:00 **Disclosing GH3-mediated inactivation mechanisms that govern auxin homeostasis in plants**
 Anita Ament
Laboratory of Growth Regulators, Palacký University and Institute of Experimental Botany, Olomouc, Czech Republic
- 13:00–14:30 Lunch break**
- 14:30–16:00 Biosynthesis and metabolism**
Chair: Hitoshi Sakakibara
- 14:30–15:10 **Session Opening Lecture: Metabolic regulation of two natural auxins in plants**
 Hiroyuki Kasahara
Graduate School of Agriculture, Tokyo University of Agriculture and Technology, Fuchu, Japan
- 15:10–15:35 **How balancing auxin homeostasis and transport shapes plants**
 Ute Voss
Plant Sciences, University of Nottingham, Nottingham, UK
- 15:35–15:50 **New generation of CKX inhibitors: review and applications**
 Jaroslav Nisler
Isotope Laboratory, Institute of Experimental Botany, Czech Academy of Sciences, Prague, Czech Republic
- 15:50–15:55 **Flash Talk: Cytokinin Dehydrogenase Activity in Xylem Sap Reveals Direct Link Between Cytokinin Metabolism and Long-Distance Transport**
 Daniel Nedvěď
Laboratory of Hormonal Regulations, Institute of Experimental Botany, Czech Academy of Sciences, Prague, Czech Republic
- 15:55–16:00 **Flash Talk: Structural study on plant adenosine kinase**
 David Kopečný
Department of Experimental Biology, Palacký University, Faculty of Science, Olomouc, Czech Republic
- 16:00–16:30 Coffee break**



16:30–18:15 Novel Methods and Techniques

Chair: Krzysztof Wabnick

16:30–17:10 Session Opening Lecture: Plant Hormonomics: Phytohormone metabolite profiling

Ondřej Novák

Laboratory of Growth Regulators, Institute of Experimental Botany of the Czech Academy of Sciences & Faculty of Science, Palacký University Olomouc, Olomouc, Czech Republic

17:10–17:25 Multi-class plant hormone analysis using hydrophilic interaction chromatography-tandem mass spectrometry

Petr Tarkowski

CATRIN, Palacky University, Olomouc, Czech Republic

17:25–17:40 Accurate in silico assessment of the function of molecules and their targets

Noel Ferro

Mulliquen Center for Theoretical Chemistry, Ferro CBM, Chemical & Biological Metrics and University of Bonn, Bonn/Tostedt, Germany

17:40–17:55 Alleviating the barrier of adventitious roots formation in recalcitrant mature tissue by slow release of a synthetic auxin

Ohad Roth

The School of Plant Sciences and Food Security, Tel Aviv University, Tel Aviv, Israel

17:55–18:00 Flash Talk: Boxeed: Precision Seeding and seed Phenotyping

Tereza Dobisová

Labdeers, Boskovice, Czech Republic

18:00–18:05 Flash Talk: Protoplast regeneration: the tools of gene transformation and foreign DNA-free gene editing

Choun-Sea Lin

Agricultural Biotechnology Research Center, Academia Sinica, Taipei, Taiwan

18:05–18:10 Flash Talk: Cytokinin signal transduction: a systems biology approach

Eleanor A Harold-Barry

Biosciences, Cardiff University, Cardiff, UK

18:10–18:15 Flash Talk: Chemical proteomic analysis of potential auxin molecular partners in *A. thaliana* roots

Radim Simerský

Department of Chemical Biology, Palacký University Olomouc, Olomouc, Czech Republic

18:30–20:00 Welcome Cocktail



Monday, June 26, 2023

09:00–10:55 Transport

Chair: Klára Hoyerová

09:00–09:40 **Session Opening Lecture: A biochemical view on auxin and cytokinin transporters**

Markus Geisler

Department of Biology, University of Fribourg, Fribourg, Switzerland

09:40–10:05 **Medicago truncatula ABCG40 is a cytokinin importer negatively regulating lateral root density and nodule number**

Michał Jasiński

Institute of Bioorganic Chemistry, Polish Academy of Sciences, Poznań, Poland

10:05–10:20 **Deciphering the functions of purine permeases in cytokinin transport**

Milica Nenadić

Department of Plant and Microbial Biology, University of Zurich, Zurich, Switzerland

10:20–10:35 **Zooming on PIN structure through a membrane topology lens – is there something to see still?**

Tomasz Nodzynski

CEITEC, Brno, Czech Republic

10:35–10:50 **HSP90 provides plasticity to auxin transport and plant development**

Tashi Tsering

Plant Biology, University of Fribourg, Switzerland, Fribourg, Switzerland

10:50–10:55 **Flash Talk: EQUILBRATIVE NUCLEOSIDE TRANSPORTER 1: A new cytokinin transporter**

Martin Hudeček

Laboratory of Growth Regulators, Institute of Experimental Botany, The Czech Academy of Sciences & Faculty of Science, Palacký University, Olomouc, Czech Republic

10:55–11:20 Coffee break

11:20–13:00 Transport

Chair: Richard Napier

11:20–12:00 **Session Opening Lecture: Substrate recognition and transport mechanism of the PIN-FORMED auxin exporters**

Ulrich Hammes

Plant Systems Biology, School of Life Sciences, Technical University of Munich, Freising, Germany

12:00–12:25 **There's a new family in town: AZGs as cytokinin transporters**

Tomás Tessi

Plant Developmental and Cell Biology, Centre for organismal studies (COS) – Heidelberg University, Heidelberg, Germany

12:25–12:50 **D6PK plasma membrane polarity requires a repeated CXX(X)P motif and PDK1-dependent phosphorylation**

Claus Schwechheimer

Plant Systems Biology, Technical University of Munich, Freising/Munich, Germany



- 12:50-12:55 **Flash Talk: Uncovering intramolecular dynamics in the auxin transporter ABCB1 using genetically encoded activity sensors**
 Francesca Romana Iacobini
Department of Biology, University of Fribourg, Fribourg, Switzerland
- 12:55-13:00 **Flash Talk: A direct, regulatory circuit between the LRR receptor kinase, ALK1/QSK1/KIN7, and ABCG36/PEN3/PDR8 controls transporter substrate preferences during plant growth and defense decisions**
 Jian Xia
University of Fribourg, Fribourg, Switzerland
- 13:00-14:30 Lunch break**
- 14:30-16:00 Signalling**
 Chair: Eva Benková
- 14:30-15:10 **Session Opening Lecture: Cytokinin signaling regulates phase transitions and reproductive behavior**
 Thomas Schmülling
Institute of Biology/Applied Genetics, Dahlem Centre of Plant Sciences, Freie Universität Berlin, Berlin, Germany
- 15:10-15:25 **Decoy receptor fine-tunes cytokinin signaling in Arabidopsis**
 David Zalabák
Laboratory of Growth Regulators, Palacký University in Olomouc, Faculty of Science, Olomouc, Czech Republic
- 15:25-15:40 **Cytokinin N-conjugated Forms are Involved in Delaying Natural and Abiotic Stress Senescence**
 Aaron M. Rashotte
Biological Sciences, Auburn University, Auburn, USA
- 15:40-15:45 **Flash Talk: Exploring the spatial organisation of cytokinin action to regulate size and activity of the shoot apical meristem**
 Bernadette Eichstädt
Institute of Biology/Applied Genetics, Dahlem Centre of Plant Sciences, Freie Universität Berlin, Berlin, Germany
- 15:45-15:50 **Flash Talk: Resolving regulation of autophagy by auxin**
 Caterina Giannini
Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria
- 15:50-15:55 **Flash Talk: Auxin and its feedback signalling on PILS turnover**
 Alessia Scerna
Faculty of Biology, Chair of Molecular Plant Physiology (MoPP), University of Freiburg, Freiburg, Germany
- 15:55-16:00 **Flash Talk: Modulation of PIN2 by TRANSMEMBRANE KINASE 1 for robust root gravitropism**
 Lukas Fiedler
Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria



16:00–16:30 Coffee break

16:30–18:00 Signalling

Chair: Thomas Schmülling

16:30–16:55 **Auxins as herbicides**

Richard Napier

Life Sciences, University of Warwick, Coventry, UK

16:55–17:10 **Designing novel synthetic cytokinin reporters based on scRNA-seq data**

Max Minne

VIB Center for Plant Systems Biology, Ghent University, Ghent, Belgium

17:10–17:25 **Deciphering the role of HIPP proteins in regulating auxin signaling responses**

Alicja Górská

Institute of Biology, University of Graz, Graz, Austria

17:25–17:40 **Decoding the transcriptional antagonism of AUXIN RESPONSE FACTORS**

Jorge Hernandez-Garcia

Laboratory of Biochemistry, Wageningen University & Research, Wageningen, the Netherlands

17:40–17:55 **Intrinsic disorder by conformational multistability in auxin co-receptors**

Charo del Genio

Coventry University, Coventry, UK

17:55–18:00 **Flash Talk: In-silico modelling of ABA, SnRK2, SnRK1 and TOR signalling pathways**

Jana Schwarzerová

Department of Biomedical Engineering, Molecular Systems Biology (MOSYS), Brno University of Technology, Brno, Czech Republic & Department of Functional and Evolutionary Ecology, University of Vienna, Vienna, Austria

18:00–21:00 Poster session I (with light refreshment)

Biosynthesis and Metabolism, Novel Methods and Techniques, Transport, Signalling, Development



Tuesday, June 27, 2023

09:00–10:45 Signalling

Chair: Katarina Kurtović

09:00–09:40 **Session Opening Lecture: Knowns and unknowns in auxin signalling**

Jiří Friml

ISTA, Klosterneuburg, Austria

09:40–10:05 **The mechanisms and functions of rapid auxin responses in Arabidopsis roots**

Matyáš Fendrych

Experimental Plant Biology, Charles University, Prague, Czech Republic

10:05–10:20 **Live imaging of cyclic nucleotides in Arabidopsis roots and their role in calcium homeostasis and the ROP GTPase cycle**

Ivan Kulich

Institute of Science and Technology Austria, Klosterneuburg, Austria

10:20–10:35 **Guanylate cyclase activity of TIR1/AFBs auxin receptors in rapid auxin responses**

Linlin Qi

Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria

10:35–10:40 **Flash Talk: Loss of auxin signalling components in duckweed is linked to a loss of body plan complexity**

Claire Smith

University of Nottingham, Nottingham, UK

10:40–10:45 **Flash Talk: The receptor kinase LRR6 as a player in auxin canalization**

Aline Monzer

Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria

10:45–11:15 Coffee break

11:15–13:05 Development (shoot)

Chair: Jiří Friml

11:15–11:55 **Session Opening Lecture: ABP1/ABLs and TMKs are co-receptors for extracellular auxin**

Zhenbiao Yang

University of California--Riverside, Riverside, USA

11:55–12:20 **Fruit shape diversification requires local maintenance of meristem identity and depends on a positive feedback mechanism**

Lars Østergaard

Department of Biology, University of Oxford, Oxford, UK

12:20–12:45 **Touching PINOID: auxin and calcium-dependent regulation of phyllotaxis at the Arabidopsis inflorescence meristem**

Remko Offringa

Plant Developmental Genetics, Leiden University, Institute of Biology Leiden, Leiden, the Netherlands



- 12:45–13:00 **bHLH heterodimer complex variations regulate cell proliferation activity in of Arabidopsis thaliana meristems**
Markéta Pernisová
Masaryk University, Brno, Czech Republic
- 13:00–13:05 **Flash Talk: Post-translational modification of SPATULA by SECRET AGENT and SPINDLY promotes organ symmetry transition at the gynoecium apex**
Yuxiang Jiang
Cell and Developmental Biology, John Innes Centre, Norwich, UK
- 13:05–14:30 Lunch break**
- 14:30–16:25 Development (shoot)**
Chair: Matyáš Fendrych
- 14:30–15:10 **Session Opening Lecture: Towards mechano-biochemical cellular models of auxin-driven plant growth and development**
Krzysztof Wabnik
PlantDynamics Lab, Plant Biotechnology and Genomics Center UPM – INIA Scientific and Technological Park of the UPM Montegancedo Campus, Madrid, Spain
- 15:10–15:35 **Fade out: Cytokinin control of reproductive shoot architecture**
Tom Bennett
School of Biology, University of Leeds, Leeds, UK
- 15:35–15:50 **Deciphering the global proliferative arrest: an elusive link between plant reproduction and longevity**
Darya Volkava
Central European Institute of Technology (CEITEC), Brno, Czech Republic
- 15:50–16:05 **Competing differentiation gradients coordinate fruit morphogenesis**
Daniel Kierzkowski
Univeristy of Montreal, Montreal, Canada
- 16:05–16:20 **Phyllotactic transitions in strawberry flowers – from spirals to whorls to spirals**
Teng Zhang
Department of Agricultural Sciences, University of Helsinki, Helsinki, Finland
- 16:20–16:25 **Flash Talk: MONOPTEROS isoform MP11ir role during somatic embryogenesis in Arabidopsis thaliana**
Helene Robert Boisivon
Mendel Centre for Genomics and Proteomics of Plants Systems, CEITEC MU – Central European Institute of Technology, Masaryk University, Brno, Czech Republic
- 18:30–21:30 Symposium Dinner**
- 21:00–00:00 Jazz Concert**



Wednesday, June 28, 2023

09:00–10:45 **Development (vasculature)**

Chair: Steffen Vanneste

09:00–09:40 **Session Opening Lecture: Single-cell transcriptome analysis of protophloem reveals dynamic pattern of hormonal regulation**

Pawel Roszak

The Sainsbury Laboratory, University of Cambridge, Cambridge, UK

09:40–10:05 **Developmental trajectories and auxin efflux control**

Christian Hardtke

Department of Plant Molecular Biology, University of Lausanne, Lausanne, Switzerland

10:05–10:30 **Hormonal crosstalk during cambium development**

Ari Pekka Mähönen

Organismal and Evolutionary Biology Research Programme, Faculty of Biological and Environmental Sciences and Viikki Plant Science Centre, University of Helsinki, Helsinki, Finland

10:30–10:45 **PDK1-activated AGC1 kinase autocatalytic circuits pattern the vascular network in *Arabidopsis thaliana***

Alkistis E. Lanassa Bassukas

Technical University of Munich, Freising, Germany

10:45–11:15 **Coffee break**

11:15–13:05 **Development (root)**

Chair: Jürgen Kleine-Vehn

11:15–11:40 **Interspecific root patterning diversity: The cytokinin route**

Raffaele Dello Iorio

Biology and Biotechnology Charles Darwin, University of Rome Sapienza, Rome, Italy

11:40–12:05 **The role of the plant cuticle during apical hook development**

Sara Raggi

Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sciences, Umeå Plant Science Centre (UPSC), Umeå, Sweden

12:05–12:30 **Characterization of early adventitious rooting via HYSYPARIN, a shoot-specific inducer of auxin responses**

Steffen Vanneste

Plants and Crops, Ghent University, Ghent, Belgium

12:30–12:45 **Does auxin modulate xyloglucan endotransglucosylase activity directly in the cell wall?**

Jozef Mravec

Institute of Plant Genetics and Biotechnology, Plant Science and Biodiversity Center, Slovak Academy of Sciences, Nitra, Slovakia



- 12:45–13:00 **The SCFKMD family of F-box proteins promote maintenance of the root quiescent center downstream of cytokinin signaling**
Swadhin Swain
Department of Biological Sciences, Dartmouth College, Hanover, NH, USA
- 13:00–13:05 **Flash Talk: *Ocimum kilimandscharicum* 4-Coumarate CoA ligase 11 negatively regulates root formation by inhibiting polar auxin transport via flavonoids accumulation**
Kirtikumar R. Kondhare
Biochemical Sciences Division, CSIR-National Chemical Laboratory, Pune, India
- 13:05–14:30 Lunch break**
- 14:30–16:00 Development (evolution)**
Chair: Jorge Hernandez-Garcia
- 14:30–14:55 **A B4-RAF-like kinase mediates a deeply conserved, rapid auxin response**
Andre Kuhn
Laboratory of Biochemistry, Wageningen University, Wageningen, the Netherlands
- 14:55–15:10 **Evolution of a non-canonical auxin signalling pathway controlling lateral organ development**
Chun Hou (Aaron) Ang
Crop Genetics, John Innes Centre, Norwich, UK
- 15:10–15:25 **Evolution of plant architecture through changes in auxin movement control**
Yoan Coudert
Laboratory of Plant Development and Reproduction, CNRS/ENS Lyon, Lyon, France
- 15:25–15:40 **How auxin regulates cellular growth dynamics to shape a leaf-like organ**
Wenye Lin
Biological Sciences, IRBV, University of Montréal, Montreal, Canada
- 15:40–15:45 **Flash Talk: New insights on evolution of auxin signaling in early green plants**
Lenka Caisová
Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria
- 15:45–15:50 **Flash Talk: Revealing the origins of plant hormones: A profiling perspective**
Vojtěch Schmidt
Charles University, Prague, Czech Republic
- 15:50–15:55 **Flash Talk: CHARACTERize: a study of auxin efflux carriers from *Chara braunii***
Katarina Kurtović
Department of Experimental Plant Biology, Faculty of Science, Charles University, Prague, Czech Republic
- 15:55–16:00 **Flash Talk: Evolution of the cytokinin regulatory network in conjugating green algae: first insights from *Spirogyra pratensis***
Atiqur Rahaman
Biology, Universität Hamburg – Institute of Plant Science and Microbiology, Hamburg, Germany

16:00–16:25 Coffee break



16:25-18:00 Interactions and Cross-talk

Chair: Lars Østergaard

16:25-17:05 Session Opening Lecture: On the Integration of External Cues into Auxin-Dependent Growth Programs

Juergen Kleine-Vehn

University of Freiburg, Freiburg, Germany

17:05-17:20 PhyA-dependent phosphorylation of AHP3 regulates cytokinin-mediated photomorphogenesis

Jan Skalák

Functional Genomics and Proteomics of Plants, Central European Institute of Technology and National Centre for Biomolecular Research, Masaryk University, Brno, Czech Republic

17:20-17:35 mRNA N6-adenosine methylation (m6A) integrates multilevel auxin response and ground tissue development

Elena A. Zemlyanskaya

Institute of Experimental Botany, The Czech Academy of Sciences, Prague, Czech Republic

17:35-17:50 Glutathione enhances auxin sensitivity in Arabidopsis roots

Ivan A. Paponov

Food Science, Aarhus University, Aarhus N, Denmark

17:50-17:55 Flash Talk: Gibberellins promote polar auxin transport to regulate stem cell fate decisions in cambium

Riikka Mäkilä

University of Helsinki, Helsinki, Finland

17:55-18:00 Flash Talk: Crucial role of asymmetric cell division in plant adaptation to hard and dry soils

Mirko De Vivo

Biology and Biotechnology "Charles Darwin", Università degli studi di Roma "La Sapienza", Rome, Italy

18:00-21:00 Poster session II (with light refreshment)

Development, Interactions and Cross-talk, Responses to Environmental Stimuli



Thursday, June 29, 2023

09:00–10:40 Interactions and Cross-talk

Chair: Cris Argueso

09:00–09:40 **Session Opening Lecture: Auxin-cytokinin nexus: the shady side of the story**

Ashvarya Laxmi

National Institute of Plant Genome Research, New Delhi, India

09:40–10:05 **"CYTOLENE" – a new modulator of plant growth and development?**

Jan Hejátko

CEITEC – Central European Institute of Technology and National Centre for Biomolecular Research, Masaryk University, Brno, Czech Republic

10:05–10:20 **Cytokinin-production by the rhizosphere bacterium *Pseudomonas fluorescens***

G20-18 contributes to interkingdom priming of tomato for enhanced drought stress responses

Thomas Roitsch

Plant and Environmental Sciences, University of Copenhagen, Copenhagen, Denmark

10:20–10:35 **Cytokinin auxin interactions during gametogenesis and embryogenesis in tomato: Do they always act antagonistic?**

Hagai Yasuor

Department of Vegetable and Field Crops, Gilat Research Center, ARD, Gilat Research Center, Israel

10:35–10:40 **Flash Talk: ETR1/AHK5 mediated activation of MSP –**

(WITHDRAWN)

a novel mechanism of cytokinin and ethylene signal integration

Eliška Špačková

CEITEC – Central European Institute of Technology, Masaryk University, Brno, Czech Republic; National Centre for Biomolecular Research, Faculty of Science, Masaryk University, Brno, Czech, Brno, Czech Republic

10:40–11:10 Coffee break

11:10–13:00 Responses to Environmental Stimuli

Chair: H el ene Robert Boisivon

11:10–11:50 **Session Opening Lecture: Manipulation of cytokinin-salicylic crosstalk for increased plant growth and pathogen resistance**

Cristina T. Argueso

Colorado State University, Fort Collins, USA

11:50–12:15 **The GH3 protein from the clubroot pathogen *Plasmodiophora brassicae* causes hormone-related phenotypes in *Arabidopsis thaliana***

Jutta Ludwig-Mueller

Faculty of Biology, Technische Universit at Dresden, Dresden, Germany

12:15–12:30 **How hormone homeostasis contributes to stress resistance in plants**

Jodie Burgess

University of Nottingham, Nottingham, UK

- 12:30-12:45 **Cytokinin in response to environmental cues**
Martin Černý
Mendel University in Brno, Brno, Czech Republic
- 12:45-12:50 **Flash Talk: microRNA165 and 166 modulate salt stress response of the Arabidopsis root**
Daria Scintu
University of Pisa, Pisa, Italy
- 12:50-12:55 **Flash Talk: Sweet shaping of root system architecture under dehydration stress**
Dhriti Singh
NIPGR, New Delhi & IISER Mohali, India
- 12:55-13:00 **Flash Talk: How do PKS proteins regulate Arabidopsis phototropic bending?**
Peter Sabol
Centre for Integrative Genomics, Faculty of Biology and Medicine, University of Lausanne, Lausanne, Switzerland

13:00-14:30 Lunch break

14:30-16:10 Responses to Environmental Stimuli

Chair: Jutta Ludwig-Müller

- 14:30-14:55 **Antigravitropic PIN polarization maintains non-vertical growth in lateral roots**
Martina De Angelis
Centre for Plant Sciences, School of Biology, University of Leeds, Leeds, UK
- 14:55-15:20 **Cytokinin regulates energy utilization in *Botrytis cinerea***
Maya Bar
Department of Plant Pathology, ARD, Volcani Institute, Rishon LeZion, Israel
- 15:20-15:35 **A new framework for root gravitropic response kinetics**
Marta Del Bianco
Italian Space Agency, Rome, Italy
- 15:35-15:50 **Gravitropism and thermomorphogenesis of lateral roots**
Sophie Zoe Farkas
Molecular Plant Physiology, Biology, Freiburg im Breisgau, Germany
- 15:50-16:05 **Cytokinins Act Synergistically with Heat Acclimation to Enhance Rice Thermotolerance**
Sylva Přerostová
Laboratory of Hormonal Regulations in Plants, Institute of Experimental Botany of the Czech Academy of Sciences, Prague, Czech Republic
- 16:05-16:10 **Flash Talk: Natural genetic variability in multistep phosphorelay as a tool for elucidating drought adaptation in *Arabidopsis thaliana***
Katrina Leslie C. Nicolas
Functional Genomics and Proteomics of Plants, Central European Institute of Technology and National Centre for Biomolecular Research, Masaryk University, Brno, Czech Republic

16:10-16:20 Closing of the Symposium

Chair: Radomíra Vaňková



LIST OF POSTERS

Posters marked with * will also be presented as a short oral presentation.

POSTER SESSION I Monday, June 26, 2023, 18:00–21:00

1. Biosynthesis and Metabolism

P-01-01 Does *Plasmodiophora brassicae* produce cytokinins?

Sylivere Habumugisha

Plants, Photosynthesis and Soil, School of Biosciences, The University of Sheffield, Sheffield, UK

P-01-02 Multilevel characterization of acyl amido synthetases Gretchen Hagen 3 in tobacco BY-2 cells

Lenka Helusová

Hormonal Regulations in Plants, Institute of Experimental Botany of the Czech Academy of Sciences, v. v. i., Prague, Czech Republic

P-01-03 Quantitative analysis of phenylacetic acid conjugates in various plant species

Pavel Hladík

Laboratory of Growth Regulators, Institute of Experimental Botany, The Czech Academy of Sciences & Faculty of Science, Palacký University, Olomouc, Czech Republic

P-01-04 Changes of the IAA catabolic network in auxin-starved BY-2 cells shown by computational modelling

Petr Hošek

Institute of Experimental Botany, Czech Academy of Sciences, Prague, Czech Republic

P-01-05* Structural study on plant adenosine kinase

David Kopečný

Department of Experimental Biology, Palacký University, Faculty of Science, Olomouc, Czech Republic

P-01-06* Cytokinin Dehydrogenase Activity in Xylem Sap Reveals Direct Link Between Cytokinin Metabolism and Long-Distance Transport

Daniel Nedvěď

Laboratory of Hormonal Regulations, Institute of Experimental Botany, Czech Academy of Sciences, Prague, Czech Republic

P-01-07 Physiological effects of CK N-glucosides in plants

Eva Pokorná

Laboratory of Hormonal Regulations in Plants, Institute of Experimental Botany of the Czech Academy of Sciences, Prague, Czech Republic

2. Novel Methods and Techniques

P-02-01* Boxeed: Precision Seeding and seed Phenotyping

Tereza Dobisová

Labdeers, Boskovice, Czech Republic



P-02-02* Cytokinin signal transduction: a systems biology approach

Eleanor Harold-Barry

Biosciences, Cardiff University, Cardiff, UK

P-02-03 Engineered autonomous bioluminescence visualizes auxins and cytokinins

Mike Karampelias

Laboratory of Hormone Interactions in Plants, Institute of Experimental Botany, Prague, Czech Republic

P-02-04* Protoplast regeneration: the tools of gene transformation and foreign DNA-free gene editing

Choun-Sea Lin

Agricultural Biotechnology Research Center, Academia Sinica, Taipei, Taiwan

P-02-05 Recent advances in plant hormones profiling

Aleš Pěnčík

Laboratory of Growth Regulators, Institute of Experimental Botany, The Czech Academy of Sciences & Faculty of Science, Palacký University, Olomouc, Czech Republic

P-02-06* Chemical proteomic analysis of potential auxin molecular partners in *Arabidopsis thaliana* roots

Radim Simerský

Department of Chemical Biology, Palacký University Olomouc, Olomouc, Czech Republic

P-02-07 Novel HILIC-MS/MS method for separation and quantification of all isomers of cytokinin glucosides

Ondřej Vrobel

CATRIN, Palacký University, Olomouc, Czech Republic

3. Transport

P-03-01 Epigenetic Regulation of PIN1

Mersa Darbandsari

Laboratory of Growth Regulators, Palacký University in Olomouc, Institute of Experimental Botany of the Czech Academy of Sciences, Olomouc, Czech Republic

P-03-02* EQUILIBRATIVE NUCLEOSIDE TRANSPORTER 1: A new cytokinin transporter

Martin Hudeček

Laboratory of Growth Regulators, Institute of Experimental Botany, The Czech Academy of Sciences & Faculty of Science, Palacký University, Olomouc, Czech Republic

P-03-03* Uncovering intramolecular dynamics in the auxin transporter ABCB1 using genetically encoded activity sensors

Francesca Romana Iacobini

Department of Biology, University of Fribourg, Fribourg, Switzerland

P-03-04 Transport-based mechanisms for the auxin-autonomous proliferation of plant cells

Pavel Jelínek

Department of Experimental Plant Biology, Charles University, Faculty of Science, Prague, Czech Republic

P-03-05 Investigation of the role of equilibrative nucleoside transporters in cytokinin transport

Petr Klíma

Laboratory of Hormonal Regulations in Plants, Institute of Experimental Botany, The Czech Academy of Sciences, Prague, Czech Republic



P-03-06 Evolutionary divergences in PIN-mediated auxin transport

Roman Skokan

Institute of Experimental Botany, CAS, Prague, Czech Republic

P-03-07 Functional characterization of the cytokinin binding protein in cytokinin regulated plant growth and development

Yiqun Wang

Institute of Science and Technology Austria, Klosterneuburg, Austria

P-03-08* A direct, regulatory circuit between the LRR receptor kinase, ALK1/QSK1/KIN7, and ABCG36/PEN3/PDR8 controls transporter substrate preferences during plant growth and defense decisions

Jian Xia

University of Fribourg, Fribourg, Switzerland

4. Signalling

P-04-01 Evolutionary origin of the auxin signaling pathway

Vanessa Polet Carrillo Carrasco

Biochemistry, Wageningen University, Wageningen, the Netherlands

P-04-02 Concentration is key: unravelling mechanisms controlling auxin response factor stability

Martijn de Roij

Biochemistry, Wageningen University, Wageningen, the Netherlands

P-04-03* Exploring the spatial organisation of cytokinin action to regulate size and activity of the shoot apical meristem

Bernadette Eichstädt

Institute of Biology/Applied Genetics, Dahlem Centre of Plant Sciences, Freie Universität Berlin, Berlin, Germany

P-04-04* Modulation of PIN2 by TRANSMEMBRANE KINASE 1 for robust root gravitropism

Lukas Fiedler

Institute of Science and Technology Austria (ISTA), 3400 Klosterneuburg, Austria

P-04-05* Resolving regulation of autophagy by auxin

Caterina Giannini

Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria

P-04-06 Distinct functions of TIR1 and AFB1 receptors in auxin signalling

Huihuang Chen

Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria

P-04-07 Ethylene biosynthesis is differently regulated in spatial-temporal manner

Han Yong Lee

Department of Biology Science, College of Natural Science, Chosun University, Gwangju, Korea

P-04-08 Vasculature development mediated by auxin canalization in Arabidopsis inflorescence stems

Ewa Mazur

Faculty of Natural Sciences, University of Silesia in Katowice, Katowice, Poland



P-04-09* The receptor kinase LRR6 as a player in auxin canalization

Aline Monzer

Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria

P-04-10 Role of 4-Chloroindole-3-acetic Acid in Promoting Pea Pod Elongation

Surbhi Rana

Crop Genetics, John Innes Centre, Norwich, UK

P-04-11 Dissecting ubiquitin-ligase and adenylyl-cyclase activity of TIR1

Marek Randuch

Institute of Science and Technology Austria, Klosterneuburg, Austria

P-04-12 Decoding ARF DNA-binding: MpARF1-His146's potential role in DNA-binding

Juriaan Rienstra

Biochemistry, Wageningen University and Research, Wageningen, the Netherlands

P-04-13* Auxin and its feedback signalling on PILS turnover

Alessia Scerna

Faculty of Biology, Chair of Molecular Plant Physiology (MoPP), University of Freiburg, Freiburg, Germany

P-04-14* In-silico modelling of ABA, SnRK2, SnRK1 and TOR signalling pathways

Jana Schwarzerová

Department of Biomedical Engineering & Department of Functional and Evolutionary Ecology, Molecular Systems Biology (MOSYS), Brno University of Technology & University of Vienna, Brno, Czech Republic

P-04-15* Loss of auxin signalling components in duckweed is linked to a loss of body plan complexity

Claire Smith

University of Nottingham, Nottingham, UK

P-04-16 The mechanism of auxin regulation of stomata movement

Minxia Zou

Institute of Science and Technology Austria, Vienna, Austria

P-04-17 Elucidation of the biological activity of new auxin derivatives in *Arabidopsis thaliana*

Kristýna Bielešzová

Department of Chemical Biology, Faculty of Science, Palacký University, Olomouc, Czech Republic

5. Development

P-05-01 The role of HIPP proteins in the regulation of lateral root development

Cristina Aucapiña Criollo

Institute of Biology, University of Graz, Graz, Austria

P-05-02 PHD-HD proteins: an enigmatic plant-specific transcription factor family

Lucia Baďurová

Functional Genomics and Proteomics of Plants, Central European Institute of Technology and National Centre for Biomolecular Research, Masaryk University, Brno, Czech Republic



P-05-03 Impact of PAT damage on the vascular trace development in Arabidopsis inflorescence shoots

Alicja Banasiak

Department of Plant Developmental Biology, University of Wrocław, Wrocław, Poland

P-05-04 The role of auxin and cytokinin in vascular reconnection during graft formation

Elise Boisvert

Plant Biology, Cornell University, Ithaca, USA

P-05-05 Towards a better understanding of auxin-regulated intercellular communication during lateral root formation

Thái Bùì *Laboratory of Plant Cell and Molecular Biology (LBMCV), Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland*

P-05-06* New insights on evolution of auxin signaling in early green plants

Lenka Caisová

Institute of Science and Technology Austria (ISTA), Klosterneuburg, Austria

P-05-07 Hormonal signaling in shoot apical meristem in Physcomitrium patens revealed by single nuclei RNA-seq

Yuki Hata

Graduate School of Life Sciences, Tohoku University, Sendai, Japan

P-05-08 Cytokinin modulation of the microtubular cytoskeleton

Syamala Inumella

Institute of Science and Technology Austria, Klosterneuburg, Austria

POSTER SESSION II

Wednesday, June 28, 2023, 18:00–21:00

5. Development

P-05-09 Investigating the role of CYCLIN-P3s in Arabidopsis style development

Iqra Jamil

Cell and developmental biology, John Innes Centre, Norwich, UK

P-05-10* Post-translational modification of SPATULA by SECRET AGENT and SPINDLY promotes organ symmetry transition at the gynoecium apex

Yuxiang Jiang

Cell and Developmental Biology, John Innes Centre, Norwich, UK

P-05-11 AtELP4, a subunit of Arabidopsis Elongator complex, regulates cell proliferation, curling, and dorsoventral polarity in leaf morphogenesis

Gyung-Tae Kim

Graduate School of Applied Bioscience, Dong-A University, Busan, Korea

P-05-12* *Dcimum kilimandscharicum* 4-Coumarate CoA ligase 11 negatively regulates root formation by inhibiting polar auxin transport via flavonoids accumulation

Kirtikumar Kondhare

Biochemical Sciences Division, CSIR-National Chemical Laboratory, Pune, India



P-05-13* CHARacterize: a study of auxin efflux carriers from *Chara braunii*

Katarina Kurtović

Department of Experimental Plant Biology, Faculty of Science, Charles University, Prague, Czech Republic

P-05-14 Cytokinin oxidase/dehydrogenase 2 of barley as a target for yield improvement

Jan Leuendorf

Institute of Biology / Applied Genetics, Freie Universität Berlin, Berlin, Germany

P-05-15 The role of TGW6 in the determination of grain size in barley

Mária Majeská Čudejková

Plant Genetics and Engineering, Czech Advanced Technology Research Institute, Palacky University in Olomouc, Olomouc, Czech Republic

P-05-16 The role of auxins and cytokinins in determining root-sprouting ability of plants

Václav Motyka

Institute of Experimental Botany of the Czech Academy of Sciences, Prague, Czech Republic

P-05-17 LAZY1 pathway induces polarity in silver birch (*Betula pendula*) branches

Sampo Muranen

University of Helsinki, Helsinki, Finland

P-05-18* Evolution of the cytokinin regulatory network in conjugating green algae: first insights from *Spirogyra pratensis*

Atiqur Rahaman

Biology, Universität Hamburg – Institute of Plant Science and Microbiology, Hamburg, Germany

P-05-19* MONOPTEROS isoform MP11ir role during somatic embryogenesis in *Arabidopsis thaliana*

Helene Robert Boisivon

Mendel Centre for Genomics and Proteomics of Plants Systems, CEITEC MU – Central European Institute of Technology, Masaryk University, Brno, Czech Republic

P-05-20 Investigating the role of auxin in patterning the petal of *Hibiscus trionum*

Elena Salvi

Sainsbury Laboratory, University of Cambridge, Cambridge, UK

P-05-21* Revealing the origins of plant hormones: A profiling perspective

Vojtěch Schmidt

Charles University, Prague, Czech Republic

P-05-22 CYTOKININ OXIDASE/DEHYDROGENASE (CKX) genes of *Arabidopsis* and oilseed rape as targets for yield improvement

Thomas Schmülling

Applied Genetics – Molecular and developmental biology, Freie Universität Berlin, Berlin, Germany

P-05-23 The “groundbreaking” ability of the root: how to cope with soil’s hardness and avoid obstacles

Federico Vinciarelli

Biologia e Biotechnologie Charles Darwin, Università di Roma La Sapienza Et Istituto Italiano di Tecnologia, Rome, Italy

P-05-24 The role of auxin and cytokinin in the synergistic interaction of histone acetyltransferase GCNS and receptor CLV1 in inflorescence and floral meristem

Konstantinos Vlachonasios

Biology, Aristotle University of Thessaloniki, Thessaloniki, Greece



P-05-25

Single cell analysis of the CLE45-BAM3 pathway in root development

Hang Zhang

Université de Lausanne, Lausanne, Switzerland

P-05-26

Plant hormone and peptide signaling converge in the regulation of cambium activation in Arabidopsis roots

Tiina Blomster

Organismal and Evolutionary Biology Research Programme, Faculty of Biological and Environmental Sciences and Viikki Plant Science Centre, University of Helsinki, Helsinki, Finland

P-05-27 Arabidopsis lateral shoots display two distinct phases of growth angle control

Martina De Angelis

Centre for Plant Sciences, School of Biology, University of Leeds, Leeds, UK

6. Interactions and Cross-talk

P-06-01* Crucial role of asymmetric cell division in plant adaptation to hard and dry soils

Mirko De Vivo

Biology and Biotechnology "Charles Darwin", Università degli studi di Roma "La Sapienza", Rome, Italy

P-06-02 Endogenous level of brassinosteroids is positively regulated by auxin signaling in *Arabidopsis thaliana*

Seong-Ki Kim

Department of Life Science, Chung-Ang University, Seoul, Korea

P-06-03* Gibberellins promote polar auxin transport to regulate stem cell fate decisions in cambium

Riikka Mäkilä

University of Helsinki, Helsinki, Finland

P-06-04 Phosphorylation of AHP3 by phyA – a crosstalk mechanism between light signaling and MSP?

Blanka Pekárová

Central European Institute of Technology (CEITEC) and National Centre for Biomolecular Research, Masaryk University, Brno, Czech Republic

P-06-05 Energy homeostasis dependent modulation of phytohormone metabolism upstream of root growth control

Katarzyna Retzer

Laboratory of Hormonal Regulations in Plants, Institute of Experimental Botany, Academy of Sciences of the Czech Republic, Prague, Czech Republic

P-06-06 A Role for Auxin-Cytokinin Synergism in Nutrient Starvation and Plant-Fungal Mutualism

Stefan Riegler

Institute of Science and Technology Austria, Klosterneuburg, Austria

P-06-07 Cytokinin-deficient CRISPR/Cas9 mutants of *Chlamydomonas reinhardtii* show reduced ability to prime resistance of tobacco against bacterial infection

Roman Sándor

Secke adaptivních a inovačních technik, Ústav výzkumu globální změny AV ČR, v. v. i., Brno, Czech Republic



P-06-08* ETR1/AHK5 mediated activation of MSP – a novel mechanism of cytokinin and ethylene signal integration

Eliška Špačková

CEITEC – Central European Institute of Technology, Masaryk University, Brno, Czech Republic ; National Centre for Biomolecular Research, Faculty of Science, Masaryk University, Brno, Czech, Brno, Czech Republic

P-06-09 Cytokinin regulated endomembrane trafficking to coordinate plant organogenesis

Tereza Tomíčková

Benkova group, Institute of Science and Technology Austria, Klosterneuburg, Austria

P-06-10 Role of B-family GATA transcription factors in the nitrogen- and cytokinin-responses of *Physcomitrium patens* and *Arabidopsis thaliana*

Dario Zappone

Plant Systems Biology, Technical University of Munich, Freising, Germany

7. Responses to Environmental Stimuli

P-07-01* Molecular dialogue between heat and cytokinin signalling in enhancing thermomemory in plants

(WITHDRAWN)

Halidev Krishna Botta

National Institute of Plant Genome Research, New Delhi, India

P-07-02 PLASTID LIPASE2 participating in jasmonate biosynthesis is involved in regulation of *Arabidopsis* cold acclimation under standard and low light conditions

Břetislav Brzobohatý

Mendel university in Brno, Brno, Czech Republic

P-07-03 Nitrogen deficiency- and sucrose-induced anthocyanin biosynthesis is modulated by HISTONE DEACETYLASE15 in *Arabidopsis*

Ming-Hsiun Hsieh

Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan

P-07-04 Cytokinins in response to a combination of high light and heat stress in rice seedlings

Jana Jarošová

Institute of Experimental Botany, Czech Academy of Sciences, Prague, Czech Republic

P-07-05 MPK-mediated phosphorylation of IAA15 inhibits lateral root development in response to drought

Sun Ho Kim

Division of Applied Life Science (BK21 Four Program), Plant Molecular Biology and Biotechnology Research Center, Gyeongsang National University, Jinju, Korea

P-07-06 Upregulation of auxin receptor TIR1 in auxin autonomous plant cell proliferation

Karel Müller

Laboratory of hormonal regulations in plants, Institute of Experimental Botany of the Czech Academy of Sciences, v. v. i., Prague, Czech Republic



P-07-07* Natural genetic variability in multistep phosphorelay as a tool for elucidating drought adaptation in *Arabidopsis thaliana*

Katrina Leslie Nicolas

Functional Genomics and Proteomics of Plants, Central European Institute of Technology and National Centre for Biomolecular Research, Masaryk University, Brno, Czech Republic

P-07-08 Interplay of plant hormones and organic nitrogen in the modulation of root system architecture

Barbora Pařízková

Department of Forest Genetics and Plant Physiology, Swedish University of Agricultural Sciences, Umeå, Sweden

P-07-09 Phytohormonal study of turion development in two aquatic carnivorous plants

Lenka Plačková

Laboratory of Growth Regulators, Institute of Experimental Botany of the Czech Academy of Sciences, Olomouc, Czech Republic

P-07-10 PILS6 sets the temperature-dependent oscillatory lateral rooting

Chengzhi Ren

Institute of Biology II, Faculty of Biology, University of Freiburg, Freiburg im Breisgau, Germany

P-07-11* How do PKS proteins regulate *Arabidopsis* phototropic bending?

Peter Sabol

Centre for Integrative Genomics, Faculty of Biology and Medicine, University of Lausanne, Lausanne, Switzerland

P-07-12 microRNA165 and 166 modulate salt stress response of the *Arabidopsis* root

Daria Scintu

University of Pisa, Pisa, Italy

P-07-13* Sweet shaping of root system architecture under dehydration stress

Dhriti Singh

NIPGR, New Delhi & IISER Mohali, India

P-07-14 From single cell to root system shaping in response to nitrogen

Vladimír Skalický

Department of Forest Genetics and Plant Physiology, Umeå Plant Science Centre, Swedish University of Agricultural Sciences, Umeå, Sweden

P-07-15 Exploring the role of the NGR1 protein in plant root gravitropic response

Anastasia Teplova

Institute of Science and Technology Austria, Klosterneuburg, Austria

P-07-16 Organ-targeted cold stress affects endogenous cytokinins in rice

Radomira Vankova

Institute of Experimental Botany, Czech Academy of Sciences, Prague, Czech Republic

P-07-17 Auxin and cytokinins response to arsenic toxicity in tubers of cherry radish

Veronika Zemanová

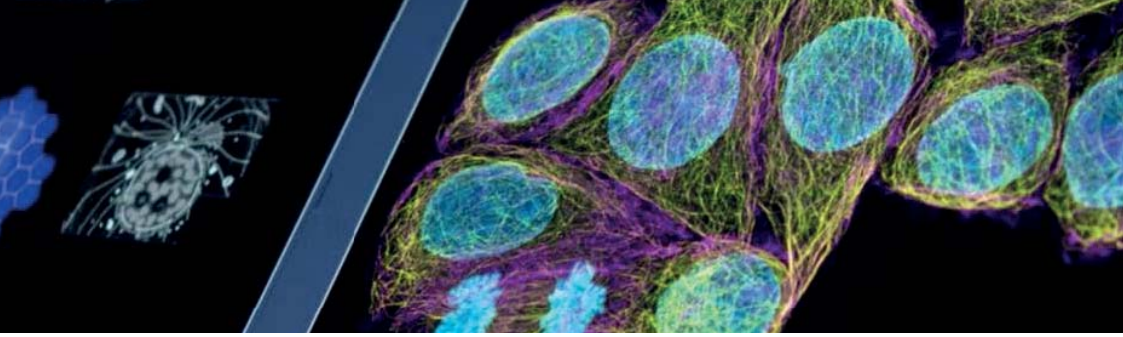
Department of Agroenvironmental Chemistry and Plant Nutrition, Czech University of Life Sciences Prague, Prague, Czech Republic





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REGISTRATION

Registration desk is located in front of the main meeting room Empiria Hall of Conference Centre City.

Opening hours of the Registration desk

Saturday, June 24, 2023	16:00-19:00
Sunday, June 25, 2023	07:30-19:00
Monday, June 26, 2023	08:00-18:00
Tuesday, June 27, 2023	08:00-16:30
Wednesday, June 28, 2023	08:15-18:00
Thursday, June 29, 2023	08:15-16:00

On-site Registration fee

Regular participant	870 EUR
Student*	570 EUR
Accompanying person	200 EUR

Registration fees include 21 % VAT.

**Applicants must be full-time students at the time of the Event and are required to upload their valid student ID card scanned from both sides or a confirmation of their student status issued by the University/institution. Post doctorates are not eligible for this rate.*

Regular/ Student's Registration fee includes:

- Admission to scientific symposium programme including the poster sessions and the exhibition
- Symposium materials
- Coffee breaks during the Symposium
- Lunches during the Symposium
- Welcome Cocktail

Accompanying Person's fee includes:

- A half day sightseeing tour of Prague
- Welcome Cocktail

Badges

PARTICIPANT	ACCOMPANYING PERSON
PARTNER/EXHIBITOR	ORGANIZER



INSTRUCTIONS FOR SPEAKERS

Presentation Upload

We kindly ask you to bring your presentation on USB (memory stick) to the main Symposium Hall, at least 90 minutes prior the start of your session. In this hall the technicians will upload your presentation into the PC. Your own laptop can be used only if inevitable and after the discussion with the technicians in the main Symposium Hall.

Speakers' Corner

The Speakers' Corner is located in the Empiria Hall. Please, upload your presentations only during coffee and lunch breaks.

Opening hours of the Speakers' Corner

Saturday, June 24, 2023	16:00-19:00
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Wednesday, June 28, 2023	08:15-17:30
Thursday, June 29, 2023	08:15-15:00

POSTER PRESENTATIONS

Poster Area

Posters will be displayed during the whole symposium in the Panorama Hall and Tower Hall.

Posters mounting

Saturday, June 24, 2023 16:00-19:00 or during the following days from 8:00.

Posters removal

Thursday, June 29, 2023 15:00-16:00

The remaining posters will then be disposed of.

BOOK OF ABSTRACTS

To be downloaded on the [Symposium website](#).

SOCIAL EVENTS

Welcome Cocktail

Date: June 25, 2023

Time: 18:30–20:00

Place: Conference Centre City (Symposium venue)

No fee, Welcome Cocktail is included in the registration fee.

Symposium Dinner

Date: June 27, 2023

Time: 18:30–21:30

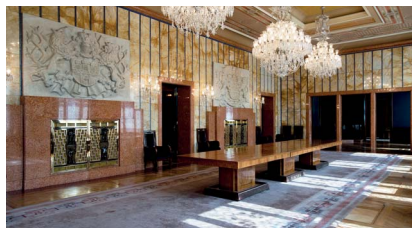
Place: Mayor's Residence

Address: Mariánské náměstí 1/98, Prague 1 – Old Town

Price: 75 EUR per person

Recommended dress code: casual/smart casual

Transportation is not provided.



Mayor's Residence

The unique premises of the Capital Mayor's Residence are considered an artistic and architectural gem in the Art Deco style. The mayor's residence was established in the years 1925–1928 according to the project of architect František Roith and occupies the entire first and second floors of the front section of the Municipal Library. The premises are used for representational purposes and the reception of rare guests of Prague.

Jazz Concert

Date: June 27, 2023

Time: 21:00–00:00

Price for participants: no fee

Place: Music Club 'U staré paní'

Address: Michalská 441/9, Prague 1

A Jazz Concert will follow the Symposium dinner. Let's make the evening even more entertaining!

Performer: Petr Dvorsky trio – modern mainstream jazz.

All musicians are looking forward to your active participation!

INTERNET

Free Wi-Fi will be available in the symposium venue.

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