

PROGRAM | WEDNESDAY 16 AUGUST

15:00 - 18:00 Registration & poster displaying

18:00 - 18:05 Welcome by Jenny Russinova

Keynote lecture **ROOM VERMEYLEN**

Chair: Jenny Russinova

KEYNOTE

18:05 - 18:45 On steroids and insects
Patrick Callaerts, *KU Leuven, BE*

18:45 - 21:00 Reception

PROGRAM | THURSDAY 17 AUGUST

08:30 - 09:00 Registration & coffee

Plenary session 1 **ROOM VERMEYLEN**

Chair: Jenny Russinova

BRASSINOSTEROID BIOSYNTHESIS AND DISTRIBUTION

09:00 - 09:30 Regulation of brassinosteroid homeostasis in the *Arabidopsis* root
Jenny Russinova, *VIB-UGent Center for Plant Systems Biology, BE*

09:30 - 09:50 *Selected talk:* Brassinosteroids: their analyses, occurrence and some biological activities
Miroslav Strnad, *Palacky University in Olomouc, CZ; Institute of Experimental Botany of the Czech Academy of Sciences, CZ*

09:50 - 10:10 *Selected talk:* Occurrence and conservation of progesterones and androgens are conserved in land plants
Jan Klein, *Department of Plant Physiology, Matthias-Schleiden-Institute for Genetics, Bioinformatics and Molecular Botany, Friedrich Schil, DE*

10:10 - 10:40 Coffee break

PROGRAM | THURSDAY 17 AUGUST

Plenary session 2 **ROOM VERMEYLEN**

Chair: Brigitte Poppenberger

BRASSINOSTEROID SIGNALLING – MECHANISMS OF REGULATION

10:40 - 11:10 HSP90 molecular chaperone as a key regulator of brassinosteroid mediated signalling processes
Despina Samakovli, *Agricultural University of Athens, GR*

11:10 - 11:30 *Selected talk:* A signalling circuit maintains cell integrity during BR-induced cell expansion
Ajeet Chaudhary, *Carnegie Institution for Science, Stanford, US*

11:30 - 11:50 *Selected talk:* Defining the brassinosteroid binding and receptor activation mechanisms of BRI1, BRL1, BRL2 and BRL3 from *Arabidopsis*
Michael Hothorn, *Structural Plant Biology Laboratory, Department of Plant Sciences, University of Geneva, CH*

11:50 - 12:10 *Selected talk:* Computational modeling and quantitative molecular biology reveal central parameters for early cell physiological processes linked to elongation growth
Klaus Harter, *University of Tuebingen, DE*

12:10 - 13:00 Lunch

Plenary session 3 ROOM VERMEYLEN

Chair: Despina Samakovli

BRASSINOSTEROID HORMONES AND SIGNALLING NETWORKS

- 13:00 - 13:30** Brassinosteroid gene regulatory networks at cellular resolution in the *Arabidopsis* root
Trevor Nolan, *Duke University, US*
- 13:30 - 14:00** Unraveling Brassinosteroid and Target of Rapamycin Complex Signaling Pathways in Plants through Integrative Network Analysis of Multi-omic Data
Justin Walley, *Department of Plant Pathology, Entomology, and Microbiology, Iowa State University, US*
- 14:00 - 14:30** Salicylic acid-mediated immune responses are coordinated by brassinosteroid in *Arabidopsis*
Tae-Wuk Kim, *Department of Life Science, College of Natural Sciences, Hanyang University, KR*
- 14:30 - 15:00** A potential role of AMP deaminase in *bri1-301* degradation
Jianming Li, *University of Michigan, US*
- 15:00 - 15:30** Coffee break
- 15:30 - 16:00** Translation initiation factor subunit eIF3b1 negatively regulates brassinosteroid signaling in *Arabidopsis*
Jia Li, *Lanzhou University, CN*

Plenary session 4 ROOM VERMEYLEN

Chair: Ana Caño-Delgado

BRASSINOSTEROID HORMONES AND PLANT DEVELOPMENT

- 16:00 - 16:30** The BSK-BIN2-BZR1 module plays essential roles in regulating brassinosteroid signaling and anther development in *Arabidopsis thaliana*
Wenqiang Tang, *Hebei Normal University, CN*
- 16:30 - 17:00** BR attenuates the inhibition of nitrate response by carbon starvation through regulating SnRK1 activity
Mingyi Bai, *Shandong University, CN*
- 17:00 - 17:30** Novel molecular mechanisms underlying the regulation of plant growth, development, and stress resistance by brassinosteroids.
Dawei Zhang, *Sichuan University, CN*
- 17:30 - 17:50** *Selected talk:* ROPGAP-dependent interaction between brassinosteroid and ROP2-GTPase signalling controls pavement cell shape in *Arabidopsis*
Cheng Zhang, *VIB-UGent Center for Plant Systems Biology, BE*
- 17:50 - 18:10** *Selected talk:* Seed coat-derived brassinosteroids non-cell autonomously regulate endosperm development
Rita Lima, *Max Planck Institute of Molecular Plant Physiology, DE*
- 18:10 - 18:30** Conference photo
- 18:30 - 21:00** Poster session

PROGRAM | FRIDAY 18 AUGUST

08:30 - 09:00 Coffee

Plenary session 4 **ROOM VERMEYLEN**

Chair: Ana Caño-Delgado

BRASSINOSTEROID HORMONES AND PLANT DEVELOPMENT (2)

- 09:00 - 09:30** The ins and outs of root meristem shape and function
Sigal Savaldi-Goldstein, *Technion, IL*
- 09:30 - 10:00** Differential activity of brassinosteroid receptors in *Arabidopsis* root development
Christian Hardtke, *University of Lausanne, CH*
- 10:00 - 10:30** Brassinosteroids at the root stem cell niche: when modeling meets data
Marta Ibañez, *Universitat de Barcelona, ES*
- 10:30 - 11:00** Coffee break

Plenary session 5 **ROOM VERMEYLEN**

Chair: Sigal Savaldi-Goldstein

BRASSINOSTEROID CROSSTALK WITH STRESS SIGNALLING PATHWAYS

- 11:00 - 11:30** Network and Mechanisms of Brassinosteroid Hormone Regulation of Plant Growth and Stress Responses
Yanhai Yin, *Iowa State University, US*
- 11:30 - 12:00** Regulation of autophagy by environmental and hormonal cues
Diane Bassham, *Department of Genetics, Development and Cell Biology, Iowa State University, US*
- 12:00 - 12:30** Modes of activity of the CESTA/BEE subfamily of bHLH transcription factors in stress responses
Brigitte Poppenberger, *Technical University of Munich, DE*
- 12:30 - 13:20** Lunch

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- 13:20 - 13:40** *Selected talk:* Mechanism of brassinosteroid promoted high temperature tolerance
Jianjun Jiang, *Henan University, CN*
- 13:40 - 14:10** Exploring how MAP4Ks impinge on brassinosteroid signalling
Ive De Smet, *VIB-UGent Center for Plant Systems Biology, BE*
- 14:10 - 14:30** *Selected talk:* The negative regulation of BIN2 on FERONIA during stress responses
Ping Wang, *Iowa State University, US*
- 14:30 - 14:50** *Selected talk:* Interdependent activity of auxin and brassinosteroids underlies adaptive root growth under low and differential availability of nitrogen forms
Loitongbam Lorinda Devi, *National Institute of Plant Genome Research, NIPGR, New Delhi, IN*
- 14:50 - 15:20** Coffee break

Plenary session 6 **ROOM VERMEYLEN**

Chair: Marta Ibañez

BRASSINOSTEROID HORMONES AND CROP IMPROVEMENT

- 15:20 - 15:40** *Selected talk:* Enhancing drought resistance in tomatoes through CRISPR/dCas9-mediated transcriptional activation of SIDWF4 and SIBRL3
Francisca Parada Ramirez, *Centro de Biología Molecular Vegetal, Departamento de Biología, Facultad de Ciencias, Universidad de Chile, CL*
- 15:40 - 16:00** *Selected talk:* A spatial-specific steroid hormonal pathway controls panicle branching and grain number in rice
Hongning Tong, *Institute of Crop Sciences, Chinese Academy of Agricultural Sciences, CN*
- 16:00 - 16:30** Unlocking the roles of BRL3 receptors open a novel perspective on brassinosteroid signaling in plants
Ana Caño-Delgado, *Centre For Research In Agricultural Genomics, ES*
- 16:30 - 17:00** Concluding remarks & poster prizes by Ive De Smet
- 17:00 - 22:00** Guided tour and conference dinner