

## The 2023 Jasmonate Meeting

Venue: Leibniz Institute of Plant Biochemistry, Weinberg 3, 06120 Halle, Germany

Final programme (2023-08-23)

### Tue August, 29<sup>th</sup>:

- 15.00-20.00 Registration & Welcome drinks  
17.00-17.20 Welcome message by Debora Gasperini & Bettina Hause  
17.20-18.30 **Opening Keynote Lecture** by Ted Farmer, University of Lausanne, Switzerland  
*Electrical signalling leading to jasmonate synthesis*  
19.00-22.00 BBQ Reception at conference venue

### Wed August, 30<sup>th</sup>:

#### **Session 1: Biosynthesis & catabolism**

Chair: Maeli Melotto

- 09.00-09.30 Thierry Heitz, Institut de biologie moléculaire des plantes, France  
*New insights into the jasmonate pathway in rice*  
09.30-10.00 Ondrej Novak, Palacký University Oloumouc, Czech Republic  
*Recent Advances in Jasmonate Profiling*  
10.00-10.15 Abraham Koo, University of Missouri, USA  
*Regulatory mechanisms for the wound-elicited JA biosynthesis*  
10.15-10.30 Yunjing Ma, Leibniz Institute of Plant Biochemistry, DE  
*Initiation of root Jasmonate biosynthesis*  
10.30-11.15 coffee and group photo

#### **Session 2: Perception**

Chair: Jyothilakshmi Vadassery

- 11.15-11.45 Minoru Ueda, Tohoku University, Japan  
*Development of synthetic ligands for COI1-JAZ co-receptor system*  
11.45-12.15 Isabel Monte, University of Tübingen, Germany  
*Evolution of jasmonates biosynthesis and signaling in streptophytes*  
12.15-12.30 Tingting Zhu, Ghent University, Belgium  
*Jasmonate-mediated signaling at high temperature in plants*  
12.30-14.00 Lunch and Posters

#### **Session 3: Signalling**

Chair: Saskia van Wees

- 14.00-14.30 Chuanyou Li, Chinese Academy of Science, China  
*Antagonistic Systemin Receptors Integrate the Attenuation with Initiation of Systemic Wound Signaling*  
14.30-15.00 Olivier van Aken, Lund University, Sweden  
*Touch signalling and thigmomorphogenesis are regulated by complementary CAMTA3- and JA-dependent pathways*  
15.00-15.15 Federica Brunoni, Palacký University, Czech Republic

*Conjugation of OPDA with amino acids is a conserved pathway affecting OPDA homeostasis upon stress response*

- 15.15-15.30 Mark Zander, Rutgers State University of New Jersey, USA  
*High-throughput elucidation of the jasmonic acid-responsive chromatin landscape*
- 15.30-16.00 Coffee

#### **Session 4: Long-distance communication**

Chair: Peter Nick

- 16.00-16.30 Pei Liu, China Agricultural University, China  
*Jasmonates Transporter Family and Plant Ecological Interactions*
- 16.30-16.45 Sonja Bauer, University of Wuerzburg, Germany  
*Impaired Ca<sup>2+</sup> decoding & JA signalling in the Venus flytrap mutant DYS CALCULIA*
- 16.45-17.00 Andreas Schaller, Hohenheim University, Germany  
*Off the beaten track: new players in wound signaling*
- 17.00- Poster I (odd numbers), drinks & nibbles
- 18.15 Chaperones leaving the IPB for the Halle City Tour
- 19.00-20.30 Halle City Tour starts at Hallmarkt/Göbelbrunnen (only pre-registered participants)

Thu August, 31<sup>st</sup>:

#### **Session 5: Signal integration**

Chair: Isabel Monte

- 09.00-09.30 Maeli Melotto, University of California Davis, USA  
*JAZ4 spatially integrates hormone signaling pathways in Arabidopsis*
- 09.30-10.00 Saskia van Wees, Utrecht University, The Netherlands  
*Cross-communication between jasmonate and other hormones*
- 10.00-10.15 Valentina Levak, National Institute of Biology, Slovenia  
*Crosstalk between jasmonic and salicylic acid signalling regulates unusual spatial pattern of defence gene multicystatin expression in potato*
- 10.15-10.30 Peter Nick, Joseph Gottlieb Kölreuter Institute for Plant Sciences, Germany  
*Towards Deciphering the Grammar of Stress - Jasmonate Signatures and Resilience*
- 10.30-11.00 coffee

#### **Session 6: Specialized metabolism**

Chair: Abraham Koo

- 11.00-11.30 Meike Burow, University of Copenhagen, Denmark  
*Regulation of glucosinolates within and across generations*
- 11.30-11.45 Catherine Doorly, Maynooth University, Ireland  
*Investigating the molecular and biochemical links between the N-degron pathway and jasmonic acid signalling*
- 11.45-12.00 Benedikt Ni, University of Goettingen, Germany  
*Non-targeted ex vivo metabolome analysis reveals a role of acyl acid amido synthetases JAR1 and GH3.10 in JA-Ile production and points towards the presence of further bioactive jasmonates*
- 12.00-13.30 Lunch and Posters

### **Session 7: Biotic interactions**

Chair: Catherine Bellini

- 13.30-14.00 Jyothilakshmi Vadassery, National Institute of Plant Genome Research, India  
*Identification of a novel gene involved in calcium-mediated jasmonate perception using forward genetic screen in Arabidopsis thaliana*
- 14.00-14.30 Marcel Dicke, Wageningen University, The Netherlands  
*Jasmonic acid's role in building a community of micro- and macroorganisms for plant defence*
- 14.30-14.45 Mazumder Mrinmoy (for Sanjay Swarup), SCELSE, Singapore  
*Root Volatiles Oxylipins and Methyl Jasmonate Induce Soil Biofilms Formation*
- 14.45-15.00 Tina Romeis, Leibniz Institute of Plant Biochemistry, Germany  
*Calcium decoding in herbivore resistance*
- 15.00-15.30 Coffee

### **Session 8: Abiotic stress**

Chair: Mark Zander

- 15.30-16.00 Ivo Feussner, University of Göttingen, Germany  
*Metabolomics meets transcriptomics to analyze jasmonate biosynthesis*
- 16.00-16.15 Sabina Villadangos, University of Barcelona, Spain  
*Bioactive jasmonates accumulation during the drought acclimation response in the non-model CAM species Sempervivum tectorum L.*
- 16.15- Poster II (even numbers), drinks
- 17.30 Chaperones leaving the IPB for the Halle Zoo
- 18.30- Conference dinner at the Halle Zoo, group entrance at Seebener Str. gate (for pre-registered participants only)

Fri September, 1<sup>st</sup>:

### **Session 9: Growth and development**

Chair: Olivier van Akhen

- 09.00-09.30 Catherine Bellini, Umeå Plant Science Centre, Sweden  
*Synergistic and antagonistic hormonal interactions control adventitious root development*
- 09.30-10.00 Gregg Howe, Michigan State University, USA  
*JAZ repression: When, Where, Why, and How?*
- 10.00-10.15 Khansa Mekkaoui, Leibniz Institute of Plant Biochemistry, Germany  
*AtMYB21 and AtMYB24, more than flower-specific transcription factors?*
- 10.15-10.30 Robert Saebel, Leibniz Institute of Plant Biochemistry, Germany  
*Jasmonate Signaling-dependent Changes in Trichome Composition and Metabolism in cultivated Tomato upon Heat Stress*
- 10.30-11.00 coffee
- 11.00-12.00 **Closing Keynote Lecture** by Alain Goossens, VIB Ghent, Belgium  
*The whys and hows of jasmonate-mediated regulation of plant triterpene metabolism*
- 12.00-12.30 poster/talk award announcements & closing remarks

12.30-14.00 Packed lunch  
14:00- IPB visits (optional)