

# SCIENTIFIC PROGRAMME

June 25 (Thursday)

08.00 – 17.00	Registration
09.00 – 09.20	Opening Welcome address by <b>Alisher Touraev (Chair, VISCEA, Austria)</b>
09.20 - 10.20 (+10)	Keynote Lecture: <b>Jan Kofod Schjørring (Denmark)</b> . Plant Nutrition for the Future Bio-based Society
10.30 - 11.00	<i>Coffee break</i>
<b>11.00 - 12.30</b>	<b><u>Session I: Signaling &amp; Hormones in Plant Growth and Development</u></b>
<b>Chairs</b>	<b><i>Dirk Becker (Germany)</i></b>
11.00 - 11.25 (+5)	<b>Paula McSteen (USA)</b> . Hormone and Nutrition Interactions in Maize Reproductive Development
11.30 - 11.45 (+5)	<b>Guo-Wei Liu (Switzerland)</b> . The Strigolactone Transporter PDR1 as a Tool to Regulate Cell Development and Plant Architecture
11.50 - 11.05 (+5)	<b>Ivan Paponov (Norway)</b> . Role of ABP1 in the Rapid Auxin Response: Inhibition of Endocytosis by Auxin
12.10 – 12.25 (+5)	<b>Giedrė Samuolienė (Lithuania)</b> . Flowering Stimulus: Hormonal Regulation in Apple Tree
12.30 - 14.00	<i>Lunch + Poster Session</i>
<b>14.00 - 15.30</b>	<b><u>Session II: Plant Nutrition: Physiology and Mechanism</u></b>
<b>Chairs</b>	<b><i>Paula McSteen (USA)</i></b>
14.00 - 14.25 (+5)	<b>Dirk Becker (Germany)</b> . A Ca <sup>2+</sup> -dependent phosphorylation switch modulates GORK K <sup>+</sup> channel activity to integrate JA-mediated pathogen and ABA-mediated drought stress responses in Arabidopsis guard cells
14.30 - 14.45 (+5)	<b>Ryoung Shin (Japan)</b> . Elucidating Regulatory Components of Potassium Deficient Signaling and Cesium Induced Signaling in Arabidopsis
14.50 - 15.05 (+5)	<b>Natsuko Kobayashi (Japan)</b> . Physiological and Transcriptional Studies to Capture the Essential Features of Magnesium Deficiency in Rice
15.10 - 15.25 (+5)	<b>Leila Arab (Germany)</b> . Total C, N Contents and Carbon Isotope Composition of 6 Provenances of Quercus Robur Originating from Sites with Different Water Availability
15.30 - 16.00	<i>Coffee break</i>
<b>16.00 - 17.30</b>	<b><u>Session III: Plant Nutrition: Symbiotic Interactions</u></b>
<b>Chairs</b>	<b><i>Christophe Roux (France); Franziska Krajinski - Barth (Germany)</i></b>
16.00 - 16.25 (+5)	<b>Didier Reinhardt (Switzerland)</b> . Positive and Negative Regulators of Arbuscular Mycorrhizal Symbiosis
16.30 - 16.55 (+5)	<b>Christophe Roux (France)</b> . Host Metabolic Hijacking by Arbuscular Mycorrhizal Fungi
17.00 - 17.25 (+5)	<b>Franziska Krajinski - Barth (Germany)</b> . The role of HA1 of Medicago truncatula in mycorrhizal nutrient uptake
17.30 – 19.00	<i>Welcome Reception + Poster Session</i>

## June 26 (Friday)

08.00 – 17.00 *Registration*

### **09.00 - 10.30** **Session IV: Plant Nutrition: Acquisition, Homeostasis**

**Chairs** *Tony Miller (UK), Hatem Rouached (France)*

09.00 - 09.25 (+5) **Tony Miller (UK)**. Tentative title: Roots, water, and nutrient acquisition: let's get physical

09.30 - 09.55 (+5) **Hatem Rouached (France)**. Regulation of Ion Homeostasis in Plants: Current Approaches and Future Challenges

10.00 - 10.10 (+5) **Zhi Li (Germany)**. Comparative Proteomic Analysis of the Response to Different Nutrient Deficiencies in Maize Root Hairs

10.15 – 10.25 (+5) **Zhen-Ming Pei (USA)**. Plant Osmosensor OSCA1

10.30 – 11.00 *Coffee break*

### **11.00 - 12.30** **Session V: Plant - Environment Interaction**

**Chairs** *Ida Ruberti (Italy), Matsuo Uemura (Japan)*

11.00 - 11.25 (+5) **Ida Ruberti (Italy)**. Plant Adaptation to Dynamically Changing Environment: The Shade Avoidance Response

11.30 - 11.55 (+5) **Matsuo Uemura (Japan)**. Plant Strategies for Survival in Changing Environment: Adaptation to Low Temperature

12.00 - 12.10 (+5) **Sophie Hendrix (Belgium)**. Endoreduplication in Arabidopsis Thaliana Hydroponically Grown under Control and Cadmium Exposure Conditions

12.15 - 12.25 (+5) **Maxwell Ware (UK)**. Plant Protection Against Excess light During Ontogenesis

12.30 – 14.00 *Lunch + Poster Session*

### **14.00 - 15.30** **Session VI: Management of Heavy Metals in Plants and Soil**

**Chairs** *Petra Bauer (Germany), Bo-Ching Chen (Taiwan)*

14.00 - 14.25 (+5) **Petra Bauer (Germany)**. Heavy Metals Need Assistance: The Contribution of Nicotianamine to Metal Circulation Throughout the Plant and the Arabidopsis NAS Gene Family

14.30 – 14.55 (+5) **Bo-Ching Chen (Taiwan)**. Model-Based Approaches to Estimate Phytoextraction Efficiency of Metal by Switchgrass

15.00 - 15.10 (+5) **Julien Spielmann (Belgium)**. Towards the Identification Cis-Elements Responsible for the High Expression of HMA4, an Essential Gene for Zn Hyperaccumulation in Arabidopsis Halleri

15.15 - 15.25 (+5) **Meghna Udgire (India)**. Biodegradation Studies of PoPs and Heavy Metals Using Pseudomonas Sp. Isolated from Contaminated Agricultural Soil

15.30 - 16.00 *Coffee break*

### **16.00 - 17.30** **Session VII: Plant Nutrition: Crop Quality/Productivity**

**Chairs** *Didier Reinhardt (Switzerland), Jan Kofod Schjørring (Denmark)*

16.00 - 16.30 (+5) **Cui Zhenling (China)**. Integrated N management for crop production—China's challenge and perspectives

16.35 - 16.50 (+5) **Spyridon Petropoulos (Greece)**. Quality of Industrial Tomato in Relation to Fertilizer Application

16.55 - 17.10 (+5) **Mehrdad Jafarpour (Iran)**. The Functional Effect of Different Organic Matter on Spinach (Spinacia Oleraceae)

17.15 - 17.30 **Closing Ceremony, Conference Photo**