



## SYMPOSIUM PROGRAM

### Monday 17 September

#### 08:30 - 09:00 Registration

#### Opening session (chair: Marina Dermastia)

9:00 Welcome address

9:15 **Opening lecture:** Johan Burger: Genome editing – a promising technology for Plant Pathology (IL1)

#### Session 1: Modern technologies (chair: Marina Dermastia)

9:50 Uroš Žibrat: Remote sensing applications for plant health and crop management (IL2)

10:20 Klemen Eler: Remote sensing of drought stressed maize in NE Slovenia (SL1)

#### 10:35 - 11:05 Coffee break & posters

#### Session 2: Modern technologies & Plant phylogeny (chair: Johan Burger)

11:05 Marko Petek: Testing RNAi pesticide targets in Colorado potato beetle (SL2)

11:20 Jana Ambrožič-Dolinšek: Cryopreservation, an important tool for long-term preservation of endangered species (SL3)

11:35 Claudio Varotto: A transcriptomics view on the evolution of *Arundo donax*, a species with high potential for phytoremediation and bioenergy production (IL3)

12:05 Božo Frajman: Using an integrative approach to understand diversification of the *Heliosperma pusillum* group (Caryophyllaceae) (IL4)

12:35 Ales Lebeda: Research and exploitation of diversity of wild *Lactuca* germplasm in North America (SL4)

#### 12:50 – 14:20 Lunch & posters

#### Session 3: Plant structure and function (chair: Andrea Schubert)

14:20 Primož Pelicon: Elemental and molecular imaging in plant biology (IL5)

14:50 Aleš Kladnik: Abscission in tomato leaves and flowers (SL5)

15:05 Pol Tijskens: Stability of variation: the case of tomato size in trusses. (SL6)

15:20 Joerg Fettke: Manipulation of the transitory starch granule number and morphology in *Arabidopsis thaliana* (SL7)

#### 15:35 – 16:05 Coffee break & posters

#### Session 4: Plant structure and function (chair: Andrea Nardini)

16:05 Jožica Gričar: Plasticity of radial growth of trees from different environments (IL6)

16:35 Katarina Šoln: Ultrastructural changes in radish root tip after the exposure to rhizome extracts of *Fallopia japonica* and *F. × bohemica* (SL8)

16:50 Dominik Vodnik: Anatomical and physiological traits of *Quercus pubescens* Willd. from nearby sub-Mediterranean stands differing in soil and microclimate (SL9)

#### 17:05 – 18:30 Poster session

#### 18:30 Symposium dinner (greenhouse at the venue)



## Tuesday 18 September

### Session 5: Plant interactions with other organisms (chair: Dan Jacobson)

- 09:00 Maruša Pompe Novak: The influence of circadian rhythm on the potato response to PVY infection (IL9)
- 09:30 Tjaša Lukan: Spatiotemporal analysis of potato hypersensitive response-conferred resistance to potato virus Y: RBOHD is required for successful virus arrest (SL13)
- 09:45 Tjaša Stare: Unrevealing complex mechanisms of plant defense signalling using systems biology approach identifies StSAPK8 as novel regulator of potato immunity (SL14)
- 10:00 Anna Coll: The ethylene response factor StERF49 is a negative regulator of potato defence response against PVY (SL15)
- 10:15 Špela Tomaž: Potato immune signalization and potato virus Y proteins – towards analysis of 3D protein structures (SL16)

### 10:30 - 11:00 Coffee break & posters

### Session 6: Plant interactions with environment (chair: Jasna Dolenc Koce)

- 11:00 Andrea Schubert: Do ABA and miR156 mediate the effects of strigolactones on drought stress tolerance and reproductive development? (IL7)
- 11:30 Andrea Nardini: Drought stress and xylem embolism: resistance and resilience of forest trees to climate change (IL8)
- 12:00 Angela Balzano: Effect of environmental factors on tree rings of Mediterranean species: investigation of xylogenesis and formation of irregularities in the wood (SL10)
- 12:15 Antonella Polzella: Effects of LED spectra in combination with biochar amendment on *Pisum sativum* L. and *Arabidopsis thaliana* L. growth (SL11)
- 12:30 Anja Kavčič: Selenate and selenite impact on mercury uptake and toxicity in plants (SL12)

### 12:45 – 14:15 Lunch & posters

### Session 7: Plant interactions with other organisms (chair: Claudio Varotto)

- 14:15 Jasna Dolenc Koce: Biological activity of selected invasive alien plants (IL10)
- 14:45 Goran Kovačević: Interactions in green hydra symbiosis (IL11)
- 15:15 Jaka Razinger: Manipulating plant-microbe-insect interactions to enhance crop production and resistance to soil pests (SL17)
- 15:30 Karina Eva Hauer: *Colletotrichum coccodes* – how does the fungus operate in the shadows? (SL18)
- 15:45 Helena Volk: *Verticillium nonalfalfae* secretes a chitin binding protein to conceal itself from plant chitinases (SL19)

### 16:00 - 16:30 Coffee break

### Closing session (chair: Špela Baebler)

- 16:30 **Closing lecture:** Dan Jacobson: Large Scale Systems Biology Approaches to Integrated Discovery: Explainable-AI and Supercomputing as the New Microscope for Complex Systems (IL12)
- 17:05 Concluding remarks