

#sppsphd #plantspps

11TH SPPS PHD STUDENT CONFERENCE 2020

2-4 September 2020 | Turku, Finland

Finnish
time, EEST

Wednesday 2 September

10:40 Welcome to the conference

Session 1: Plants and their environment

Host: Azfar Bajwa, University of Turku

11:00 **Professor Christian Fankhauser, University of Lausanne - Reaching out for the sun: dealing with the threat of carbon deprivation**

11:40 **Shenglan Li** - Elevated CO₂ modulates plant hydraulic conductance through regulation of PIPs and OST1 under progressive soil drying in tomato plants

12:00 **Priyanka Trivedi** - Natural wax from arctic berries: Composition, biosynthesis and effect of environmental factors

12:20 **João Salazar** - Treatment of Hydroponic Greenhouse Effluent with Nordic Algae: From Laboratory to Pilot Scale

12:40 Break

Session 2: Agriculture and food

Host: Dr. Martina Angeleri University of Turku/Plantui Oy

13:30 **Associate Professor Francesco Orsini, University of Bologna - Research and innovation in urban agriculture**

14:10 **Davide Visintainer** - Accelerated domestication of the naturally resilient crop *Chenopodium quinoa*

14:25 **Gaia Stringari** - Potential volatile organic compounds emission in indoor urban farming: impact assessment in building integrated-Rooftop Greenhouses (i-RTG)

14:40 **Mara Petruzzelli** - The City/Region Food System adaptations in the post Covid-19 era: evidences to design a more sustainable future

14:55 **Francesco Cirone** - Territorializing food system sustainability assessment: Life Cycle Thinking contribution to shared value chains

15:10 Break

Workshop: City/Region Food Systems Sustainability

Host: Dr. Giuseppina Pennisi

Department of Agricultural and Food Sciences, University of Bologna

**15:30 Dr. Bernd Pölling, South-Westphalia University of Applied Sciences (SWUAS) -
How to make smart and sustainable CRFS economically viable?**

Dr. Esther Sanyè-Mengual, Joint Research Centre (JRC) -

**The environmental impacts of EU food consumption and innovative urban
agriculture experiences**

3 + 2 min presentations by 13 young researchers

17:00 Break

17:15 Virtual escape room by Wildgoose Events

duration: up to 90 min

Thursday 3 September

10:40 Morning Activity

Session 3: Photosynthesis

Host: Tapio Lempiäinen

**11:00 Assistant Professor Alizée Malnoë, Umeå University - Molecular Players of
Photoprotection**

11:40 Pierrick Bru - Investigation of photoprotection qH site of quenching

**12:00 Heta Mattila - Misses of oxygen evolving complex play a crucial role in photoinhibition
of photosystem II**

**12:20 Anita Santana Sanchez - Flavodiiron proteins 1-to-4 function in versatile
combinations in O₂ photoreduction in cyanobacteria**

12:40 Break

Session 4: Plant development

Host: Sara Alegre Garcia, University of Turku

**13:30 Dr. Daniel Gibbs, University of Birmingham - Build and destroy: Roles for targeted
protein degradation in plant development and stress response**

- 14:10** **Laura Armbruster** - The N^α-acetyltransferase NAA50 is required for growth and regulation of stress responses in *Arabidopsis thaliana*
- 14:30** **Marie-Louise Fobian Thomsen** - Structure Specific Fine-tuning of Seedling Establishment by a Defense Metabolite
- 14:50** **Jesús Pascual** - Post-translational control of ACONITASE 3 affects mitochondrial dysfunction responses in Arabidopsis
- 15:10** **Eduardo Mateo-Bonmati** - Forward and reverse genetic approaches to decode IAA homeostasis
- 15:30** **Break**
- 15:45-16:45** **ePoster session**
Host: Dr. Martina Angeleri University of Turku/Plantui Oy

Friday 4 September

- 10:40** **Morning activity**
- Session 5: Blue bioeconomy**
Host: Olli Virtanen, University of Turku
- 11:00** **Professor Maria Barbosa, Wageningen University and Research - The role of microalgae in the blue bioeconomy**
- 11:40** **Silje Forbord** - Latitudinal, seasonal and depth-dependent variation in growth, chemical composition and biofouling of cultivated sugar kelp (*Saccharina latissima*) along the Norwegian coast
- 11:55** **Martin Plöhn** - Growth performance and Cd²⁺ uptake kinetics of Nordic microalgae
- 12:10** **Ville Rissanen** - Developing immobilized cell factories from nanocelluloses and photosynthetic microbes for sustainable carbon capture and chemicals production
- 12:25** **Sindhujaa Vajravel** - Towards sustainable ethylene production with cyanobacterial artificial biofilms
- 12:40** **Break**
- Session 6: Forestry**
Host: Dr. Sanna Rantala, University of Turku
- 13:30** **Professor Jaana Bäck, University of Helsinki - Multidisciplinary approach to address forestry in changing climate**

14:10 **Maria Dominguez** - Annual cycle of photosynthetic capacity in Scots pines is affected by the non-structural carbon compounds

14:30 **Joana Amaral** - An integrated approach to unveil *Pinus* spp. differential responses to *Fusarium circinatum* infection

14:50 **Steffen Grebe** - Specific thylakoid protein phosphorylations are prerequisites for overwintering of Norway spruce (*Picea abies*) photosynthesis

15:10 **Break**

Panel discussion: What needs to be fixed in the publishing system? A plant science perspective – From Prof to Post-Doc to students

Hosts: Steffen Grebe and Daniel Solymosi

15:30 The panelists:

Vaughan Hurry – Editor-in-chief at *Physiologia Plantarum*

Jonathan Ingram – Senior Journals Publishing Manager at Wiley

Alizée Malnoë – Assistant professor at Umeå University

Jaana Bäck – Adjunct professor at University of Helsinki

**16:30-
16:45** **Closing words and awards**