

## Palacký University Olomouc - 3 Universities Symposium



Hosted by Palacký University Olomouc  
In cooperation with Aurora



## Topics

The main theme is the past, current and future impact of human society to the environment and environment to human society.

The topics may include:

- Regulatory issues in new breeding technologies – GMO (CRISPR law and economy)
- Epigenetic modifications – response to environment
- Harmful algal blooms
- Biodiversity and evolution of microbes: population genomics
- Pathogenic and invasive organisms
- Breeding and molecular farming
- Molecular functional biology for agriculture
- Societal impacts of global changes
- Directed microbial evolution
- Current AI development in agriculture and environmental sciences

## Programme

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**8 October 2024** – Arrivals

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**9 October 2024**

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9:00–10:00 Registration

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WELCOME SESSION (Chairman Petr Dvořák)

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10:00–10:10 Martin Procházka  
*Rector, Palacký University Olomouc*

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- 10:10–10:20 Scott Angle  
*Senior Vice President for Agriculture and Natural Resources, University of Florida,  
Institute of Food and Agricultural Sciences*
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- 10:20–10:30 Jiří Stavovčík  
*Vice-Rector for International Relations, Palacký University Olomouc*
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- 10:30–10:40 Lucie Plíhalová  
*Vice-Rector for Science and Research, Palacký University Olomouc*
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- 10:40–10:50 Alessandro Arienzo  
*Rector's delegate for International Relations and AURORA Alliance, University of Naples  
Federico II (Online)*
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- 10:50–11:10 Coffee break
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- GRANT AND NETWORKING OPPORTUNITIES (Chairman Petr Dvořák)
- 
- 11:10–11:30 **Discuss research opportunities**
- Robert Gilbert  
*Dean for Research and Executive Director of Academic Affairs, University of Florida,  
Institute of Food and Agricultural Sciences*
- 
- 11:30–11:50 **Networking for greater global impact**
- Adebola Adesogan  
*Associate Vice President, Global Food Systems Institute, University of Florida, Institute  
of Food and Agricultural Sciences*
- 
- 11:50–12:10 **Cooperative grant opportunities for EU and USA**
- Andrea Nogová  
*Palacký University Olomouc*
- 
- 12:10–14:00 Lunch. Suggestion: Bistro Paulus (10 mins walk)  
*Please note that lunch will not be provided by the symposium organizers*
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- SOIL AND AQUATIC MICROBIAL ECOLOGY (Chairman Gary Vallad)
- 
- 14:00–14:40 **Little things with big impacts: how managing the soil microbiome can impact the  
resiliency of agricultural production (Plenary)**
- Sarah Strauss  
*University of Florida*
- 
- 14:40–15:00 **Seeking the eagle killer while surveying the cyanobacterial bloom-forming  
diversity across the Kissimmee chain of lakes (Florida, USA)**
- Dail Laughinghouse IV  
*University of Florida*
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15:00–15:20 **The case of *Microcoleus* – untangling cyanobacterial taxonomy using population-genomics based approach**

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Svatopluk Skoupý  
*Palacký University Olomouc*

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15:20–15:40 **Novel diversity and toxicity of benthic marine cyanobacteria from Florida (USA) and the Caribbean**

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David Berthold  
*University of Florida*

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16:00–16:20 **Exploiting soil microbial biodiversity for sustainable agriculture and environmental management**

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Valeria Ventorino  
*University of Naples Federico II*

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16:20–17:00 Coffee break

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17:00–19:00 City tour

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19:00–22:00 Informal Dinner - Drapal Restaurant

*Please note that dinner will not be provided by the symposium organizers*

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## 10 October 2024

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PHYTOPATHOLOGY AND DESEASE MANAGMENT (Chairman Riccardo Aversano)

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9:00–9:40 **Harnessing *Trichoderma* for sustainable agriculture: biocontrol and plant growth promotion (Plenary)**

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Sheridan Woo  
*University of Naples Federico II*

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9:40–10:20 **Utilization of plant genetic resources in plant resistance breeding against pathogens and pests. Case study: lettuce (*Lactuca* spp.)**

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Aleš Lebeda  
*Palacký University Olomouc*

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10:20–11:00 Coffee break

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11:00–11:20 **Mining Florida's Myakka Fine Sand for Sustainable Biological Control**

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Gary Vallad  
*University of Florida*

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11:20–11:40 **Plant-Pathogen-BCA interactions: signaling mechanisms employed by pathogens and their subversion by BCAs.**

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David Turrà  
*University of Naples Federico II*

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11:40–14:00 Lunch. Suggestion: Bistro Paulus (10 mins walk)  
*Please note that lunch will not be provided by the symposium organizers*

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ADVANCES IN AGRICULTURAL TECHNOLOGIES AND AI APPLICATIONS IN PLANT AND SOIL SCIENCE (Chairman Riccardo Aversano)

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14:00–14:40 **The AI University – University of Florida**

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Scott Angle  
*University of Florida*

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14:40–15:00 **The AI-PlantLab: Cutting-Edge Tool for Plant Growth Monitoring and Phenotypic Trait Prediction**

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Nuria De Diego Sanchez  
*Palacký University Olomouc*

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15:00–15:20 **AI-Driven Detection of Plant Diseases Using Digital Twins**

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Martin Juříček  
*Fravebot Company*

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15:20–15:40 **How to build a weed resilient agro-ecosystem?**

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Valerio Cirillo  
*University of Naples Federico II*

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15:40–16:00 **An update on the regulation of NGT plants in the EU**

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Ivo Frébort  
*Palacký University Olomouc*

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16:00–16:20 **AI Microscopy**

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Pavel Krist  
*Zeiss*

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16:20–16:50 Coffee break

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16:50–18:30 Poster session

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19:00–22:00 Social Evening in Fort Science  
*Covered by organizers*

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## **11 October 2024**

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PLANT BREEDING AND GENETIC ENGINEERING FOR CROP IMPROVEMENT (Chairman Ivo Frébort)

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9:00–9:40 **Domestication has altered gene expression and secondary metabolites in pea seed coat (Plenary)**

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Petr Smýkal  
*Palacký University Olomouc*

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- 9:40–10:00 **Breeding Fresh Market Tomatoes at the University of Florida**
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- Jessica Chitwood-Brown  
*University of Florida*
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- 10:00-10:20 **Decoy Receptor Fine-tunes Cytokinin Signaling in Plants**
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- David Zalabák  
*Palacký University Olomouc*
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- 10:20–10:40 **GST genes as key regulators of redox balance in tomato: prospects for improved fruit quality and stress tolerance.**
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- Antonio Di Matteo  
*University of Naples Federico II*
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- 10:40–11:10 Coffee break
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- LANDSCAPE AND ECOSYSTEM SUSTAINABILITY (Chairman Ivo Frébort)
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- 11:10–11:30 **Modelling the effects of agricultural policies on biodiversity and ecosystem services in agricultural landscapes**
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- Tomáš Václavík  
*Palacký University Olomouc*
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- 11:30–11:50 **Multifunctionality of grassland-dominated landscapes in an era of global changes**
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- Jiangxiao Qiu  
*University of Florida*
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- 11:50–12:10 **Laboratory and field approaches for soil health monitoring**
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- Nunzio Fiorentino  
*University of Naples Federico II*
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- 12:10–12:30 **Bio-energy supply chains in marginal lands, through landscape recovery and valorization. A Southern Italy case study**
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- Elena Cervelli  
*University of Naples Federico II*
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- 12:30–12:40 Closing Remarks
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- 12:40–14:00 Lunch. Suggestion: Bistro Paulus (10 mins walk)  
*Please note that lunch will not be provided by the symposium organizers*
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- 14:00–17:00 Excursion on the campus Holice  
*Transport covered by organizers*
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**12 October 2024 – Departures**

## Posters

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### **Assessing Salt Stress Effects on Solanum Commersonii: Integrative Phenotypic and Molecular Investigations**

Luca Cimmino

*University of Naples Federico II*

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### **Barley-Based Molecular Farming for the Production of Antimicrobial Peptide LL-37**

Lenka Dzurová

*Palacký University Olomouc*

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### **Barley Grains as Cathelicidin Factories: Adapting Fusion Protein Strategy for Cereal-Based Recombinant Production**

Edita Holásková

*Palacký University Olomouc*

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### **Deciphering the Dynamics of Auxin-Induced Transcriptomic and Chromatin Accessibility Changes During Barley Crown Root Development**

Nikola Kořínková

*Palacký University Olomouc*

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### **Phylogenomic reveals evolutionary patterns of neoteny and bioluminescence in Elateriformia (Coleoptera)**

Dominik Kusý

*Palacký University Olomouc*

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### **The Boosting Photosynthesis to Deliver Novel CROPs for the Circular Bioeconomy**

Mária Majeská Čudejková

*Palacký University Olomouc*

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### **The Course of Plant Colonisation by Endophyte**

Pavel Matušinský

*Palacký University Olomouc*

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### **Regulatory Issues for Release of GM Barley to the Environment**

Hana Pospíšilová

*Palacký University Olomouc*

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### **Mining Florida's Myakka fine sand for sustainable biological control**

Gary E. Vallad

*University of Florida*

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### **AI-Driven Detection of Plant Diseases Using Digital Twins**

Radim Zelinka

*Mendel University Brno*

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## Committee

Organizing and Scientific Committee:

- Associate Professor **Petr Dvořák** (Palacký University Olomouc)

- Professor **Ivo Frébort** (Palacký University Olomouc)
- Associate Professor **Riccardo Aversano** (University of Naples)
- Professor **Gary Vallad** (University of Florida)

## Registration

Please fill in the registration form and submit your abstract.

Instructions for submitting an abstract

- maximum word count: 250
- maximum number of citations: 2
- file format: Word
- deadline for abstract submission: 31 August 2024

## Organisational information

### Symposium dates

8–12 October 2024

### Deadline for abstract submission

31 August 2024

### Venue

Fort Science, 17. listopadu 7, Olomouc, Czech Republic

### How to get there

- Tram 1, 5, 7 – tram stop Envelopa
- Tram 1, 3, 7 – tram stop Tržnice
- Bus 20 – bus stop 17. listopadu

### Parking

Parking is available close the main venue. Further information will be added in due course.

### Accommodation

Please note that our University does not provide accommodation for the participants of this event. However, below you can find tips on interesting places for your pleasant stay in Olomouc.

- OREA Hotel Arigone Olomouc
- Long Story Short
- Hotel Penzion Na Hradě
- Hotel Trinity
- Theresian Hotel
- Herbarium Boutique Hotel

### Contacts

doc. Mgr. Petr Dvořák Ph.D. (p.dvorak@upol.cz)



## Olomouc – tips

Browse this page for interesting tips on what to see in Olomouc.



Palacký University  
Olomouc

**UF** | UNIVERSITY of  
**FLORIDA**



UNIVERSITÀ DEGLI STUDI DI NAPOLI  
**FEDERICO II**

### Kontakt

Univerzita Palackého v Olomouci  
Křížkovského 511/8  
779 00 Olomouc  
IČ: 61989592  
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e-podatelna@upol.cz  
ID datové schránky UP: **ffsj9ei**  
Podrobné identifikační údaje [↗](#)

Oznamování porušení práva [↗](#)

Úřední hodiny Podatelny RUP  
pondělí–pátek: 9:00–13:30





Univerzita Palackého  
na mapě



HR Award

## Hlavní menu

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