



**Faculty of Horticulture  
Mendel University in Brno**

hosted by  
scientific conference

# **Trends in Horticulture and Landscape Architecture 2024**

to be held on

**19 November 2024**

**at the Faculty of Horticulture in Lednice**

**2. Circular**

**Scientific Committee:**

prof. Ing. Patrik Burg, Ph. D. - chairman  
Ing. Aleš Eichmeier, Ph.D.  
Ing. Jana Čechová, Ph.D.  
doc. Ing. Petr Kučera, Ph.D.  
doc. Mgr. Miroslav Baránek, Ph.D.  
doc. Dr. Ing. Jaroslav Salava – VÚRV, v. v. i.  
prof. Ing. arch. ThLic. Jiří Kupka, Ph.D. - ČZU  
prof. Ing. Robert Pokluda, Ph.D.  
prof. Ing. Pavel Šimek, Ph.D.  
prof. Ing. Mojmír Baroň, Ph.D.  
doc. Dr. Ing. Alena Salašová  
Ing. Barbora Dohnalová, Ph.D.  
doc. Ing. Barbara Ševčíková, Ph.D.  
doc. Dr. Ing Petr Salaš  
prof. Ing. Josef Balík, Ph.D.  
doc. Ing. Tomáš Kopta, Ph.D.  
Ing. Ivo Ondrášek, Ph.D.  
prof. Dr hab. Rafał Barański – UR, Krakow  
prof. Dariusz Grzebelus – UR, Krakow  
prof. Ing. Pavel Zemánek, Ph.D.

**Organizing Committee:**

Ing. Jana Čechová, Ph.D.  
Ing. Aleš Eichmeier, Ph.D.  
Ing. Kristýna Kříčková  
Ing. Kateřina Štůsková  
Ing. Lucie Frejlichová  
Bc. Josef Knézlík  
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The Circular is also available on the website

<https://zf.mendelu.cz/veda-a-vyzkum/konference/?psn=3000>

**Aim and focus of the conference**

The aim of the conference is to present the current results of dissertation theses of students of doctoral programmes of the Faculty of Horticulture in Lednice, including increasing the general awareness of the problems solved at individual departments of the Faculty of Horticulture. **The results will be presented by students of the 3rd and 4th years, passive participation of students of lower years at the conference is mandatory.**

**The best papers presented at the plenary session will be selected and the presenters will be financially rewarded.** The abstract book will be published at the same time as the conference.

**Scientific Sessions:**

1. Horticulture (D-ZAHR, D-EUHO)
2. Landscape architecture (D-KA)

**Venue:**

Lecture hall Aula of the Faculty of Horticulture in Lednice, foreign participants can present online (in case of unfavourable epidemiological situation, the conference will be held online)

**Language of the meeting:** English

**Acknowledgments:** The "Trends in Horticulture and Landscape Architecture 2024" conference is organized with the support of the IGA project, designated IGA-ZF/2024-KONF-001.

## **Programme of the conference**

- 09:00–09:10            *Opening in the Auditorium*
- 09:15–13:30           *Plenary session*
- 09:15–09:30           *IDENTIFICATION, INTERPRETATION AND POSSIBILITIES OF  
REGENERATION OF DESIGNED LANDSCAPE*  
*Kříčková, K.*
- 09:30–09:45           *THE IMPACT OF VINE PRUNING METHODS ON PHYSIOLOGICAL  
DEVELOPMENT AND HEALTH CONDITION OF VITIS VINIFERA*  
*Danko, R.*
- 09:45–10:00           *COMPARISON OF A SELECTED ASSORTMENT OF ASIAN PEAR  
VARIETIES AND PEAR HYBRIDS*  
*Fiala, J.*
- 10:00–10:15           *INCREASING THE EFFICIENCY OF GRAPEVINE BREEDING BY USING  
DNA MARKERS LINKED TO GENES FOR RESISTANCE TO FUNGAL  
DISEASES*  
*Hádlík, M.*
- 10:15–10:30           *Coffee break*
- 10:30–10:45           *STUDY OF THE RESISTANCE OF GRAPEVINE VARIETIES TO THE  
PATHOGEN CADOPHORA LUTEO-OLIVACEA*  
*Homolová, D.*
- 10:45–11:00           *HORTICULTURAL CROPS AS A TOOL FOR SUSTAINABLE  
DEVELOPMENT IN DEVELOPING COUNTRIES*  
*Hrušovský, T.*
- 11:00–11:15           *STUDY OF FERMENTATION GASES DURING THE FERMENTATION OF  
GRAPE MUST*  
*Humaj, J.*
- 11:15–11:30           *INFLUENCE OF THE MODIFIED SOIL ENVIRONMENT ON  
ESTABLISHMENT AND VITALITY OF TREES AFTER PLANTING*  
*Jeřábková, J.*
- 11:30–11:45           *CHANGING IN WINE THE COMPOSITION DURING THE AGING ON  
YEAST LEES*  
*Mikuš, J.*

11:45–12:00	<i>OPTIMIZATION OF LETTUCE NUTRITION IN A HYDROPONIC GROWING SYSTEM</i> <i>Patloková, K.</i>
12:00–12:45	<b><i>Break for lunch</i></b>
12:45–13:00	<i>EVALUATION OF TERROIR CONDITIONS AND VINEYARD MANAGEMENT DURING THE CULTIVATION OF WELSCHRIESLING</i> <i>Šulík, M.</i>
13:00–13:15	<i>A TECHNOLOGY OF VEGETABLE PRODUCTION WITH ZERO OR LOW PESTICIDE RESIDUES</i> <i>Chikte, T.</i>
13:15–13:30	<i>MANAGEMENT OF NUTRITION DURING SECONDARY FERMENTATION</i> <i>Tesařík, Š.</i>

**CHANGE OF PROGRAMME IS RESERVED**

**Instructions for presenters**

**Presentation:** in the form of reports with support in a PowerPoint presentation in the structure:

1. thesis title, student, supervisor, supervisor specialist (if assigned)
2. objectives of the thesis
3. methodology used
4. results
5. summary of progress and results obtained
6. next steps for completion of the work

**The student is obliged to present "live" and respond to the submitted questions, at the same time it is mandatory to have a presentation in MS PowerPoint with spoken commentary recorded in the MS Teams application. Presentation footage must not exceed 8 minutes.**