

5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE

# PLANT PRODUCTIVITY AND FOOD SAFETY:

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

23-24 June 2025

THE EVENT HELD IN  
CONJUNCTION WITH THE  
ANNUAL MEETING OF  
SUSTAIN COST ACTION 22144

SESSION I:  
PLANT-MICROORGANISMS  
INTERACTIONS IN AGRICULTURE  
AND ECOSYSTEM  
MANAGEMENT

SESSION II:  
PLANT METABOLISM AND  
SIGNALLING

SESSION III:  
SOIL THREATS AND SECURITY

SESSION IV:  
THE GLOBAL PROBLEM  
OF SALINITY -  
AN INTERDISCIPLINARY APPROACH

**Keynote Lecturer**  
**Prof. David B. Collinge**

Department of Plant and  
Environmental Sciences (PLEN),  
Faculty of Science,  
University of Copenhagen, Denmark

**ON SITE ONLY**

Nicolaus Copernicus University in Toruń  
Faculty of Biological and Veterinary Sciences  
Faculty of Earth Sciences and Spatial Management  
Lwowska 1 Street, 87-100 Toruń

[www: https://soil-micro.umk.pl/pages/Konferencja\\_2025/](https://soil-micro.umk.pl/pages/Konferencja_2025/)



Sponsors



5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025**

7:15 - 12:00	Registration
8:15 - 8:30	Opening the Conference
8:30 - 9:00	Keynote Lecturer's speech <b><u>PROF. DAVID B. COLLINGE</u></b> (University of Copenhagen, Denmark) Presentation Title: "Fungal endophytes for plant disease control"

\* - OBSIDIAN Conference Participants can select and take part in parallel events

CONFERENCE OBSIDIAN 2025		COST SUSTAIN ANNUAL MEETING	
		<div>Ice-Breaker Session</div> <div>SESSION CHAIRS:</div> <div><a href="#">KATALIN SOLYMOSI</a></div> <div>(Eötvös Loránd University (ELTE), Hungary)</div> <div>/ <a href="#">LUÍSA CUSTÓDIO</a></div> <div>(Centro de Ciências do Mar   CCMAR, Portugal)</div> <div>(7:45 - 8:15)</div>	
<div>SESSION I *</div> <div>Plant-Microorganisms Interactions in Agriculture and Ecosystem Management</div> <div>Session Chairs:</div> <div><a href="#">IAN DODD</a></div> <div>(Lancaster University, United Kingdom)</div> <div><a href="#">KATARZYNA HRYNKIEWICZ</a></div> <div>(Nicolaus Copernicus University in Toruń, Poland)</div>		<div>WORK GROUP 3 *</div> <div>(COST Action 22144)</div> <div>Total value of saline ecosystems and landscapes</div> <div>Session Chairs:</div> <div><a href="#">ZENEPE DAFKU</a></div> <div>(Agricultural University of Tirana, Albania)</div> <div>(9:00 – 12:00)</div>	
9:00 – 9:25	<div><a href="#">IAN DODD</a></div> <div>(Lancaster University, United Kingdom)</div>	<div>During this interactive session, we will explore valuation techniques for salt-affected lands with practical examples in selected countries. We will also conduct meta-analysis exercise showcasing economic potential of salt-affected land.</div>	
9:25 – 9:30	Q&A Panel		
SHORT PRESENTATION PANEL			
9:30 – 9:45	Lecture 1		
9:45 – 10:00	Lecture 2		

SCHEDULE OBSIDIAN 23th JUNE 2025



5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE  
**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025**

\* - OBSIDIAN Conference Participants can select and take part in parallel events

10:00 – 10:15	Lecture 3	
10:15 -10:30	Lecture 4	
10:30 - 10:45	Lecture 5	
10:45 - 11:00	Discussion	
11:00 - 12:00	Poster Session	
12:00 - 12:10	Group Photo	
12:10 - 13:00	Coffee Break	

23th JUNE 2025

SCHEDULE OBSIDIAN

5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24****June 2025**

\* - OBSIDIAN Conference Participants can select and take part in parallel events

SCHEDULE OBSIDIAN 23th JUNE 2025

<div>SESSION II *</div> <div>Plant Metabolism and Signalling</div> <div>Session Chairs: <a href="#">YONGHUA LI-BEISSON</a> (Environment, Bioenergy, Microalgae and Plants", CEA Cadarache, France)  <a href="#">AGNIESZKA ZIENKIEWICZ</a> (Centre for Interdisciplinary Technologies, Nicolaus Copernicus University in Toruń, Poland)</div>		<div>WORK GROUP 4 &amp; 5 *</div> <div>(COST Action 22144)</div> <div>Knowledge sharing and stakeholders' engagement &amp; Policy framework for the salinisation management</div> <div>Session Chairs: <a href="#">HENRIK PER ARONSSON</a> (University of Gothenburg, Sweden)  <a href="#">VÍTOR JOÃO PEREIRA DOMINGUES MARTINHO</a> (Polytechnic Institute of Viseu, Portugal)</div> <div>(13:00 – 16:00)</div>
13:00 - 13:25	<a href="#">YONGHUA LI-BEISSON</a> (CEA Cadarache, France)	<div>During this interactive session, we will address topics related to both stakeholder empowerment and governance. This group will discuss effective ways to engage various stakeholders via workshops, sustainable saline agriculture value chain to support national and international agricultural policies and future research agenda at local and international scale.</div>
13:25 - 13:30	Q&A Panel	
SHORT PRESENTATION PANEL		
13:30 - 13:45	Lecture 1	
13:45 - 14:00	Lecture 2	
14:00 - 14:15	Lecture 3	
14:15 - 14:30	Lecture 4	
14:30 - 14:45	Lecture 5	
14:45 - 15:00	Discussion	
15:00 - 16:00	Poster Session	

5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025**

18:00 - 19:30	Guided Walk Tour of Toruń
19:30 -	Gala Dinner

SCHEDULE OBSIDIAN 23th JUNE 2025

5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025**

7:30 - 12:00

Registration

\* - OBSIDIAN Conference Participants can select and take part in parallel events

**SESSION III \*****Soil Threats and Security**

Session Chairs:

**PIOTR HULISZ**

(Nicolaus Copernicus University in Toruń, Poland)

**MARCIN ŚWITONIAK**

(Nicolaus Copernicus University in Toruń, Poland)

**WORK GROUP 2 \***

(COST Action 22144)

**Plant responses to salinity at the shoot and the root level**

Session Chairs:

**IAN DODD**

(Lancaster University, United Kingdom)

**(8:30 – 11:30)**

8:30 - 8:55

**ÅSGEIR R. ALMÅS**

(Norwegian University of Life Sciences)

8:55 - 9:00

**Q&A Panel****SHORT PRESENTATION PANEL**

9:00 - 9:15

**Lecture 1**

9:15 - 9:30

**Lecture 2**

9:30 - 9:45

**Lecture 3**

9:45 - 10:00

**Lecture 4**

10:00 - 10:15

**Lecture 5**

10:15 - 10:30

**Discussion**

10:30 - 11:30

**Poster Session**

During this interactive session, we will discuss future experimental work and genetic improvement programs in order to characterise and quantify root-microbial-soil interactions in saline soils, and their potential in terms of the optimal soil and water management of these lands.

11:30 - 12:30

**Coffee Break****SCHEDULE OBSIDIAN 24th JUNE 2025**

5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025**

\* - OBSIDIAN Conference Participants can select and take part in parallel events

**SESSION IV \*****The Global Problem of Salinity - An  
Interdisciplinary Approach**

Session Chairs:

**KATE NEGACZ**

(Vrije Universiteit Amsterdam, Netherlands)

**KATARZYNA HRYNKIEWICZ**

(Nicolaus Copernicus University in Toruń, Poland)

**WORK GROUP 1 \***

(COST Action 22144)

**Soil and water salinity: physical and biochemical  
characteristics at different scales**

Session Chairs:

**MICHAIL ORFANOUDAKIS**

(Democritus University of Thrace, Greece)

**(12:30 - 15:30)**

12:30 - 12:55

**Kate Negacz**  
(Vrije Universiteit  
Amsterdam, Netherlands)

12:55 - 13:00

**Q&A Panel****SHORT PRESENTATION PANEL**

13:00 - 13:15

**Lecture 1**

13:15 - 13:30

**Lecture 2**

13:30 - 13:45

**Lecture 3**

13:45 - 14:00

**Lecture 4**

14:00 - 14:15

**Lecture 5**

14:15 - 14:30

**Discussion**

14:30 - 15:20

**Poster Session**


During this interactive session, we will discuss the most promising technologies to monitor soil and water salinity and how they can be featured on open-access platforms. The group will also formulate preliminary guidelines on soil mapping to capture heterogeneity, sustainable agricultural practices and identifying gaps and new innovations/technologies.

**SCHEDULE OBSIDIAN**  
**24th JUNE 2025**

5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025**

15:20 - 15:40	Sponsorship presentations	
15:40 - 16:00	Closing Ceremony and Awarding	
16:00 - 18:00	Management Committee Meeting (COST Action 22144)	

24th JUNE 2025

SCHEDULE OBSIDIAN



5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE**PLANT PRODUCTIVITY AND FOOD SAFETY:**

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

**23-24**  
**June 2025****23 - 27 JUNE 2025****OBSIDIAN 2025 Laboratory-workshop**  
**“Plant-microbial interactions in saline areas”****Place:** Department of Microbiology, Faculty of Biological and Veterinary Sciences, Nicolaus Copernicus University**Lecturers:** Deja-Sikora Edyta (Coordinator of the Workshop), Furtado Bliss U., Kalwasińska Agnieszka, Thiem Dominika, Szymańska Sonia, Szydło Jagoda, Marangi Matteo**Suggested trainees:** students (max. 10 participants)**Task:** Isolation, characterisation of microorganisms associated with halophytes. Effect of salinity on microbial diversity and metabolic activity.**REGISTRATION FORM****25 JUNE 2025****OBSIDIAN 2025 Field-workshop**  
**„Plant-soil relationships in saline areas”****Place:** Inowrocław, the saline area around the soda ash plant (40km from Toruń)**Lecturers:** Piotr Hulisz, Agnieszka Piernik**Suggested trainees:** scientists, PhD Students (max. 50 participants)**Task:** Identification of halophytes, field study of soil properties and assessment of the influence of local environmental conditions on plant biodiversity.REGISTRATION AVAILABLE THROUGH OBSIDIAN CONFERENCE 2025 **REGISTRATION FORM****PARTICIPATION ON SITE ONLY****Conference Fee**

350 zł Researchers

200 zł Doctoral Students / Students

Please contact: **conferenceobsidian@gmail.com** if you  
have any questions!

Yours Sincerely

**SUSTAIN COST Action 22144 Members**

No Registration Fee

On behalf of the Conference Organising Committee,

Katarzyna Hryniewicz

**WORKSHOP SCHEDULE OBSIDIAN**