

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 ( <i>will be announced</i> )

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

CONFERENCE OBSIDIAN 2025		COST SUSTAIN ANNUAL MEETING
		<p>Ice-Breaker Session SESSION CHAIRS: <b><u>KATALIN SOLYMOSI / LUÍSA CUSTÓDIO</u></b> (7:45 - 8:15)</p>
<p><b>SESSION I *</b></p> <p><b>Plant-Microorganisms Interactions in Agriculture and Ecosystem Management</b></p> <p>Session Chairs: <b><u>IAN DODD</u></b> (Lancaster University, United Kingdom)</p> <p><b><u>KATARZYNA HRYNKIEWICZ</u></b> (Nicolaus Copernicus University in Toruń, Poland)</p>		<p><b>WORK GROUP 3 *</b> (COST Action 22144)</p> <p><b>Total value of saline ecosystems and landscapes</b></p> <p>Session Chairs: <b><u>ZENEPE DAFKU</u></b> (Agricultural University of Tirana, Albania)</p> <p><b>(9:00 – 12:00)</b></p>
9:00 – 9:25	<p><b><u>IAN DODD</u></b> (Lancaster University, United Kingdom)</p>	<p>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.</p>
9:25 – 9:30	<b>Q&amp;A Panel</b>	
<b>SHORT PRESENTATION PANEL</b>		
9:30 – 9:45	<b>Lecture 1</b>	
9:45 – 10:00	<b>Lecture 2</b>	
10:00 – 10:15	<b>Lecture 3</b>	
10:15 -10:30	<b>Lecture 4</b>	

**SCHEDULE OBSIDIAN 23th JUNE 2025**

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10:30 - 10:45	<b>Lecture 5</b>	
10:45 - 11:00	<b>Discussion</b>	
11:00 - 12:00	<b>Poster Session</b>	
12:00 - 12:10	<b>Group Photo</b>	
12:10 - 13:00	<b>Coffee Break</b>	

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<p><b>SESSION II *</b></p> <p><b>Plant Metabolism and Signalling</b></p> <p>Session Chairs:  <a href="#"><u>YONGHUA LI-BEISSON</u></a>                      (Environment, Bioenergy, Microalgae and Plants", CEA Cadarache, France)</p> <p><a href="#"><u>AGNIESZKA ZIENKIEWICZ</u></a>                      (Centre for Interdisciplinary Technologies, Nicolaus Copernicus University in Toruń, Poland)</p>		<p><b>WORK GROUP 4 &amp; 5 *</b> (COST Action 22144)</p> <p><b>Knowledge sharing and stakeholders' engagement &amp; Policy framework for the salinisation management</b></p> <p>Session Chairs:  <a href="#"><u>HENRIK PER ARONSSON</u></a>                      (University of Gothenburg)</p> <p><a href="#"><u>VÍTOR JOÃO PEREIRA DOMINGUES MARTINHO</u></a>                      (Polytechnic Institute of Viseu, Portugal)</p> <p><b>(13:00 – 16:00)</b></p>
13:00 - 13:25	<a href="#"><u>YONGHUA LI-BEISSON</u></a> (CEA Cadarache, France)	<p>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.</p>
13:25 - 13:30	<b>Q&amp;A Panel</b>	
<b>SHORT PRESENTATION PANEL</b>		
13:30 - 13:45	<b>Lecture 1</b>	
13:45 - 14:00	<b>Lecture 2</b>	
14:00 - 14:15	<b>Lecture 3</b>	
14:15 - 14:30	<b>Lecture 4</b>	
14:30 - 14:45	<b>Lecture 5</b>	
14:45 - 15:00	<b>Discussion</b>	
15:00 - 16:00	<b>Poster Session</b>	

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18:00 - 19:30	<b>Guided Walk Tour of Toruń</b>
19:30 -	<b>Gala Dinner</b>

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7:30 - 12:00	Registration
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**SCHEDULE OBSIDIAN 24th JUNE 2025**

<p><b>SESSION III *</b></p> <p><b>Soil Threats and Security</b></p> <p>Session Chairs: <b><u>PIOTR HULISZ</u></b> (Nicolaus Copernicus University in Toruń, Poland)</p>		<p><b>WORK GROUP 2 *</b> (COST Action 22144)</p> <p><b>Plant responses to salinity at the shoot and the root level</b></p> <p>Session Chairs: <b><u>JUTTA PAPENBROCK</u></b> (Leibniz Universität Hannover)</p> <p><b>(8:30 - 11:30)</b></p>
8:30 - 8:55	<b>Keynote speaker</b> (will be announced)	<p>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.</p>
8:55 - 9:00	<b>Q&amp;A Panel</b>	
<b>SHORT PRESENTATION PANEL</b>		
9:00 - 9:15	<b>Lecture 1</b>	
9:15 - 9:30	<b>Lecture 2</b>	
9:30 - 9:45	<b>Lecture 3</b>	
9:45 - 10:00	<b>Lecture 4</b>	
10:00 - 10:15	<b>Lecture 5</b>	
10:15 - 10:30	<b>Discussion</b>	
10:30 - 11:30	<b>Poster Session</b>	
11:30 - 12:30	<b>Coffee Break</b>	

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<p><b>SESSION IV *</b></p> <p><b>The Global Problem of Salinity - An Interdisciplinary Approach</b></p> <p>Session Chairs: <b><u>KATE NEGACZ</u></b> (Vrije Universiteit Amsterdam, Netherlands)</p> <p><b><u>KATARZYNA HRYNKIEWICZ</u></b> (Nicolaus Copernicus University in Toruń, Poland)</p>		<p><b>WORK GROUP 1 *</b> (COST Action 22144)</p> <p><b>Soil and water salinity: physical and biochemical characteristics at different scales</b></p> <p>Session Chairs: <b><u>MICHAIL ORFANOUDAKIS</u></b> (Democritus University of Thrace)</p> <p><b>(12:30 - 15:30)</b></p>	
12:30 - 12:55	<p><b>Kate Negacz</b> (Vrije Universiteit Amsterdam, Netherlands)</p>	<p>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.</p>	
12:55 - 13:00	<b>Q&amp;A Panel</b>		
<b>SHORT PRESENTATION PANEL</b>			
13:00 - 13:15	<b>Lecture 1</b>		
13:15 - 13:30	<b>Lecture 2</b>		
13:30 - 13:45	<b>Lecture 3</b>		
13:45 - 14:00	<b>Lecture 4</b>		
14:00 - 14:15	<b>Lecture 5</b>		
14:15 - 14:30	<b>Discussion</b>		
14:30 - 15:30	<b>Poster Session</b>		
15:30 - 16:00	<b>Closing Ceremony and Awarding</b>		
16:00 - 18:00	<b>Management Committee Meeting (COST Action 22144)</b>		

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### 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, 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.

### 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

PARTICIPATION ON SITE ONLY

Conference Fee  
350 zł Researchers  
200 zł Doctoral Students / Students

SUSTAIN COST Action 22144 Members  
No Registration Fee

Please contact: [conferenceobsidian@gmail.com](mailto:conferenceobsidian@gmail.com) if you have any questions!

Yours Sincerely

On behalf of the Conference Organising Committee,  
Katarzyna Hryniewicz