

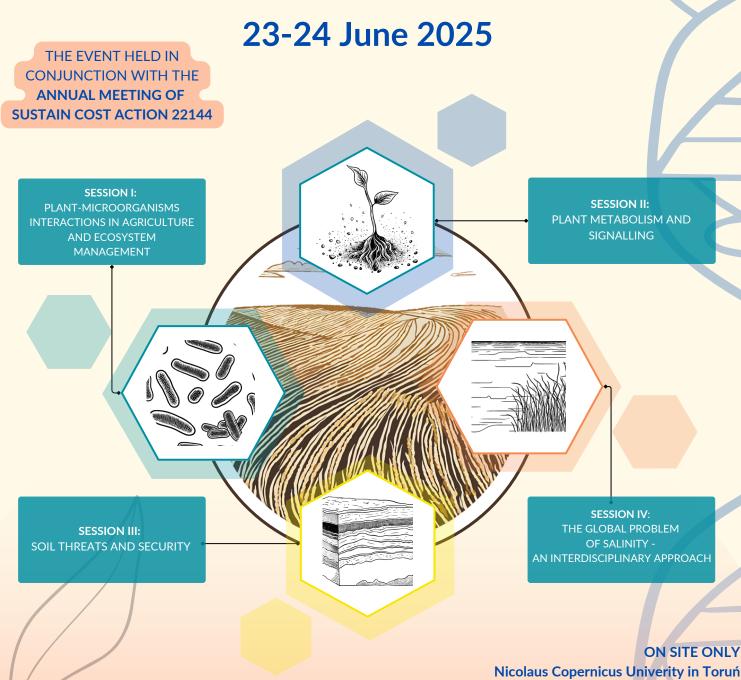




5<sup>th</sup> EDITION OF INTERNATIONAL CONFERENCE

# PLANT PRODUCTIVITY AND FOOD SAFETY:

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS



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









23-24 June 2025

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

7:15 - 12:00	Registration	
8:15 - 8:30	Openinig the Conference	
8:30 - 9:00 Keynote Lecturer's speech (will be announced)		

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

		WORK GROUP 3 *
SESSION I *		(COST Action 22144)
Plant-Microorganisms Interactions in Agriculture and Ecosystem Management		Total value of saline ecosystems and landscapes
(Session Chairs: will be announced)		(Session Chairs: will be annouced)
		(9:00 – 12:00)
9:00 - 9:25	Keynote speaker	
9:25 - 9:30	Q&A Panel	
SHORT PRESENTATION PANEL		
9:30 - 9:45	Lecture 1	
9:45 - 10:00	Lecture 2	During this interactive session, we will explore valuation techniques for salt-affected lands with practical examples in selected countries.
10:00 - 10:15	Lecture 3	We will also conduct meta-analysis exercise showcasing economic potential of salt-affected land.
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	









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	SESSION II * etabolism and Signalling Chairs: will be announced)	WORK GROUP 4 & 5 *  (COST Action 22144)  Knowledge sharing and stakeholders' engagement &  Policy framework for the salinisation management  (Session Chairs: will be annouced)  (13:00 - 16:00)
13:00 - 13:25	Keynote speaker	
13:25 - 13:30	Q&A Panel	
SHORT PRESENTATION PANEL		
13:30 - 13:45	Lecture 1	During this interactive session, we will address topics
13:45 - 14:00	Lecture 2	related to both stakeholder empowerment and governance. This group will discuss effective ways to engage various stakeholders via workshops,
14:00 - 14:15	Lecture 3	sustainable saline agriculture value chain to support national and international agricultural policies and future research agenda at local and international scale.
14:15 - 14:30	Lecture 4	Tuture research agenua at local and international scale.
14:30 - 14:45	Lecture 5	
14:45 - 15:00	Discussion	
15:00 - 16:00	Poster Session	
18:00 - 19:30	Guided Walk Tour of Toruń	
19:30 -	Gala Dinner	









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7:30 - 12:00

Registration

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		WORK GROUP 2 *
SESSION III *		(COST Action 22144)
Soil Threats and Security		Plant responses to salinity at the shoot and the root level
(Session Chairs: will be announced)		(Session Chairs: will be annouced)
		(8:30 - 11:00)
8:30 - 8:55	Keynote speaker	
8:55 - 9:00	Q&A Panel	
SHORT PRESENTATION PANEL		
9:00 - 9:15	Lecture 1	During this interactive session, we will discuss future
9:15- 19:30	Lecture 2	experimental work and genetic improvement programs in order to characterise and quantify root-microbial-soil interactions in saline soils, and their
9:30 - 9:45	Lecture 3	potential in terms of the optimal soil and water management of these lands.
9:45 - 10:00	Lecture 4	
10:00 - 10:15	Lecture 5	
10:15 - 10:30	Discussion	
10:30 - 11:30	Poster Session	
11:30 - 12:30	Coffee Break	









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		WORK GROUP 1 *
SESSION IV *		(COST Action 22144)
The Global Problem of Salinity - An Interdisciplinary Approach		Soil and water salinity: physical and biochemical characteristics at different scales
(Session Chairs: will be announced)		(Session Chairs: will be annouced)
		(12:30 - 15:30)
12:30 - 12:55	Keynote speaker	
12:55 - 13:00	Q&A Panel	
SHORT PRESENTATION PANEL		
13:00 - 13:15	Lecture 1	
13:15 - 13:30	Lecture 2	During this interactive session, we will discuss the most promising technologies to monitor soil and water
13:30 - 13:45	Lecture 3	salinity and how they can be featured on open-access platforms. The group will also formulate preliminary
13:45 - 14:00	Lecture 4	guidelines on soil mapping to capture heterogeneity, sustainable agricultural practices and identifying gaps and new innovations/technologies.
14:00 - 14:15	Lecture 5	
14:15 - 14:30	Discussion	
14:30 - 15:30	Poster Session	
15:30 - 16:00	Closing Ceremony and Awarding	
16:00 - 18:00	Management Committee Meeting (COST Action 22144)	









23-24
June 2025

MICROBIOLOGY, SOIL SCIENCE, FOOD QUALITY AND AGRICULTURAL GENETICS

#### 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 microbialdiversity and metabolicactivity.

#### 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, PhDStudents (max. 50 participants)

**Task:** Identification of halophytes, field study of soil properties and assessment of the influence of local environmental conditions on plant biodervisity