



# GEN4OLIVE Symposium:

## Project Results and Future Directions in Olive Breeding

**Date:** 25, 26 & 27\* February 2025

**Time:** 9:00 - 17:00 - Brussels time - UTC+02:00

**The event will be recorded**



Register here: <https://gen4olive.eu/final-event/>

\*Only the GEN4OLIVE consortium.

## LOCATION

### **Tuesday, 25 February 2025:**

Rectorate of the University of Córdoba. Avda. Medina Azahara, 5.  
(<https://maps.app.goo.gl/mob8vwftrajGKa5Y7>)

### **Wednesday, 26 February 2025:**

Diputación Provincial de Córdoba. Pl. de Colón, 15.  
(<https://maps.app.goo.gl/wu43W6w2ER97mHn48>)

### **Thursday, 27 February 2025:**

**Bus meeting point:** Rectorate of the University of Córdoba.  
Avda. Medina Azahara, 5.  
(<https://maps.app.goo.gl/mob8vwftrajGKa5Y7>)





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# AGENDA

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## Tuesday, 25 February 2025: Presentation of GEN4OLIVE Project Results

**08:30-09:00 | Registration and Welcome Coffe**

**09:00-09:30 | Opening Ceremony**

**09:30-09:45 | Overview of the GEN4OLIVE project.** Project coordinator: Concepción Muñoz Díez (University of Córdoba, Spain).

### **SESSION 1: PHENOTYPING OF OLIVE GENETIC RESOURCES.**

**09:45-10:30 | Cultivated olive genetic resources: Agronomic traits, oil quality, biotic stresses and abiotic stresses.** Hristofor Miho (University of Córdoba, Spain).

**10:30-11:00 | Coffe Break**

**11:00-11:30 | The effect of the Genotype x Environment interaction.** Georgios Koubouris (DEMETER, Greece).

**11:30-12:10 | Wild and ancient genetic resource: Prospecting, genetic diversity and characterisation.** Rafael Rubio de Casas (University of Granada, Spain).

### **SESSION 2: DEVELOPMENT OF EARLY SELECTION BIOMARKERS AND TECHNIQUES TO ACCELERATE BREEDING.**

**12:10-12:30 | Presentation on mRNA biomarkers for selection of short juvenile period genotypes, new techniques to accelerate breeding and the parental effect on the inheritance.** Concepción Muñoz Díez (University of Cordoba, Spain).

**12:30-12:45 | Presentation on mRNA biomarkers for tolerance to biotic stresses.** Ana M<sup>a</sup> Fernández Ocaña (University of Jaén, Spain).

**12:45-14:00 | Lunch Break**



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## **SESSION 3: INTERACTIVE GEN4OLIVE DATABASE AND AI APPLICATIONS.**

**14:00-15:00 | Demonstration of GEN4OLIVE database access and uses. OliveVar applications for the identification of olive cultivars and pest/disease detection. Live demonstration of the apps.**  
Luigi Vincenzo Mancini (SAPIENZA).

## **SESSION 4: OPEN CALL FOR SMES.**

**15:00-16:00 | Impact Summary of the SME project calls. Impact in olive breeding and industry.**  
Nathalie Chavrier (FCTA).

**16:00-16:30 | Panel Discussion: Co-creation activities, future directions and opportunities.** Bert Popping (FOCOS).

**16:30-17:00 | Round Table GEN4OLIVE consortium members and Advisory Board.** (FAO, IOC, AB).

**17:00-17:30 | Interactive Q&A. Audience feedback. Conclusion remarks. Introduction to day 2.**



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**Wednesday, 26 February 2025: Future breeding strategies for olives and other fruit crops**

**09:00-09:30 | Welcome and Introduction**

### **SESSION 1: CLASSIC BREEDING, WHAT COMES NEXT?**

**09:30-10:00 | Breeding in olive.** Concepción Muñoz Díez (University of Córdoba, Spain).

**10:00-10:30 | The Power of Luck and Genomics in Advancing Passion Fruit Breeding.** Alon Samach Hebrew (University of Jerusalem, Israel).

**10:30-11:00 | Coffe Break**

### **SESSION 2: FROM GENETICS TO GENOMICS.**

**11:00-11:30 | Advancing Peach Breeding in the Genomics Era: Leveraging Phenotypic and Molecular Data to Enhance Breeding Efficiency.** Ksenija Gasic (Clemson University , EEUU).

**11:30-12:00 | DNA editing in Fruit tree species.** Estefano Tartarini (Bologna University, Italy).

**12:00-12:30 | Plant Breeding and Biotech Approaches in Tomato.** Toni Granell (IBMCP, Spain)

**12:30-13:00 | Round table with all speakers. Audience Q&A.**

**13:00-14:30 | Lunch Break**

### **SESSION 3: FUTURE TRENDS.**

**14:30-15:00 | Integrating Omics to Reshape Perennial Breeding: Bridging Tradition and New Tools.** Julio Isidro Sanchez (Universidad Politécnica de Madrid, Spain).

**15:00-15:30 | Engineering the crop microbiota through host genetics and its potential for breeding.** Carmen Escudero-Martinez (University of Dundee, UK).

**15:30-17:00 | Round table with all speakers. Q&A on future research and collaboration opportunities. Conclusion Remarks.**



# GEN4OLIVE Symposium: Project Results and Future Directions in Olive Breeding

**Thursday, 27 February 2025: A Journey into Olive Innovation - Visit to El Valenciano Rural Hub.** Only the GEN4OLIVE consortium.

Co-Creation Activity

***Location:*** Rural Innovation Hub 'El Valenciano', Carmona, Seville

**09:00-10:30 | Departure from Córdoba to Carmona (Bus).**

**10:30-12:30 | Visit of comparative trials of new olive varieties.**

**12:30-13:00 | Presentation by BALAM: Overview of newly registered olive varieties.**

**13:00-14:30 | Lunch Break**

**14:30-15:30 | Guided tour of Carmona town.**

**15:30-16:30 | Return journey to Córdoba city.**