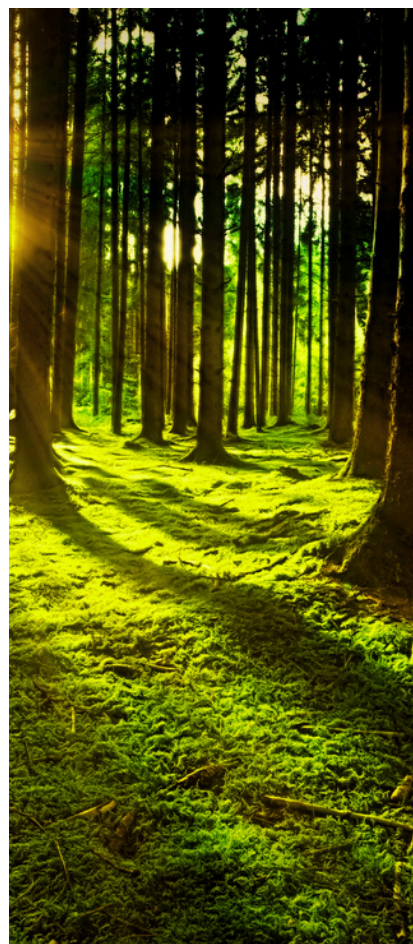


VI CONVEGNO AISSA #UNDER40

PROGRAMMA



5-7 GIUGNO 2025 / PORTICI (NA)

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Giovedì 5 Giugno 2025

Ore 8:30 Registrazione Partecipanti, **Complesso Mascabruno**

Ore 9:00 Apertura dei lavori, **Aula 1 Complesso Mascabruno**

Saluti istituzionali

- **Conveners:** Maura Sannino, *Università degli Studi di Napoli Federico II*, Carla Cavallo, *Università degli Studi di Salerno*
- Dott. Nicola Caputo, *Assessore Agricoltura Regione Campania*
- prof. Danilo Ercolini, *Direttore del Dipartimento di Agraria, Università degli Studi di Napoli Federico II*
- prof. Gianni Cicia, *Professore e Direttore del Master in Economia e Politica Agraria, Università degli Studi di Napoli Federico II*
- prof.ssa Teresa Del Giudice, *Professoressa Ordinaria, Università degli Studi di Napoli Federico II*
- prof. Salvatore Faugno, *Professore Associato, Università degli Studi di Napoli Federico II*
- prof. Fabio Terribile, *Professore Ordinario, Centro di ricerca interdipartimentale CRISP*

Presentazione attività AISSA#under 40 **“Ripensare la co-produzione della conoscenza: Riflessioni da un workshop partecipativo alla Conferenza AISSA#under40 di Firenze 2024”** - dr. Luigi Piemotese, *Università degli Studi di Firenze*

Ore 10:00 Sessione Plenaria, **Aula 1 Complesso Mascabruno**

TRASFORMAZIONI TECNOLOGICHE, SOCIALI E AMBIENTALI: QUALE FUTURO PER IL SISTEMA AGRO-ALIMENTARE ITALIANO?

Prof. Fabio Boncinelli, Università di Firenze

SOSTENIBILITÀ GLOBALE E SOSTENIBILITÀ AZIENDALE NEL SETTORE AGRICOLO E ZOOTECNICO: DAGLI INDICATORI ALLE CERTIFICAZIONI

Prof. Alberto Atzori, Università degli Studi di Sassari

Ore 11:00 Pausa Caffè + Sessione Poster 1, Complesso Mascabruno

Ore 11:30 Sessioni Parallele, Complesso Mascabruno

[Clicca qui per il Book of abstracts](#)

Aula 1	Aula 7	Aula 8	Aula LING
<u>P1 - From Field Variability to Packaging Innovation: Multidisciplinary Approaches to Modern Enology.</u>	<u>P2 - Food, Environment and Consumption: Multilevel Approaches to Sustainability Communication</u>	<u>P3 - Challenges and future directions of plant protection under global change</u>	<u>P4 - Innovative Approaches to Sustainable and Functional Plant-Based Food Development</u>

Ore 12:45 Pranzo + Sessione Poster 1, Galoppatoio e adiacenze Complesso Mascabruno

Giovedì 5 Giugno 2025

Ore 14:00 Sessione Plenaria, **Complesso Mascabruno**

DIALOGO MOLECOLARE TRA PIANTA, MICRORGANISMO BENEFICO E PATOGENO: CHI RISCUOTERÀ MAGGIOR SUCCESSO?

Prof.ssa Silvia Proietti, Università degli Studi della Tuscia

Ore 14:30 Sessioni Parallele, **Complesso Mascabruno**

[Clicca qui per il Book of abstracts](#)

Aula 1	Aula 2	Aula 7	Aula 8
<u>P5 - Sustainable Intensification of Agriculture: Novel Inputs and Technologies for Crop Enhancement</u>	<u>P6 - Smart Farming, Authenticity, and Technological Adoption: New Frontiers in Agri-Food Systems</u>	<u>P7 - From Local to Global Pressures: Mapping and Mitigating Environmental and Economic Risks in Agriculture</u>	<u>P8 - Agri-Food By-Products as a Resource: Biostimulants, Biofertilizers, and Functional Ingredients</u>

Ore 15:45 Sessioni Parallele, **Complesso Mascabruno**

[Clicca qui per il Book of abstracts](#)

Aula 1	Aula 2	Aula 7	Aula 8
<u>P9-Soil Health and Agroecological Transitions: Innovative Approaches for Sustainable Land Use</u>	<u>P10- Innovations in Soil Health Assessment: From Microbial Insights to Open-Source Monitoring</u>	<u>P11-Biotech-Enabled Crop Development: Enhancing Genetic Diversity, Adaptation, and Traceability.</u>	<u>P12-The role of remote sensing in supporting agricultural and sevicultural management</u>

Ore 17:00 Assemblea Comitato Scientifico, **Aula 8**

Ore 18:30 Appuntamento pick up per apericena sociale, *Piazza Carlo di Borbone, Portici*

Ore 19:30 [Renanera Beach](#)

Venerdì 6 Giugno 2025

Ore 9:00 Sessioni Parallele, **Complesso Mascabruno**

[Clicca qui per il Book of abstracts](#)

Aula 1	Aula 2	Aula 7	Aula 8
<u>P13- Novel strategies to study the health of forest soils</u>	<u>P14 - Advancements in managing water use efficiency for crops grown under water stress</u>	<u>P15 -Effects of biostimulant application on plant growth and development</u>	<u>P16- Cross-Disciplinary Approaches to Agroecological Sustainability: From Product Quality to Ecosystem Restoration</u>

Ore 10:00 Sessione Plenaria, **Aula 1 Complesso Mascabruno**

COSA RENDE UN FUNGO UN PATOGENO DELLE PIANTE DI SUCCESSO?

Prof. Riccardo Baroncelli, Alma Mater Studiorum – Università di Bologna

ALIMENTI DEL FUTURO: PERCHÉ È COSÌ DIFFICILE ACCETTARE IL CAMBIAMENTO?

Prof. Giovanni Sogari, Università degli Studi di Parma

Ore 11:00 Pausa Caffè + Sessione Poster 2, Galoppatoio e adiacenze Complesso Mascabruno

Ore 11:30 Sessioni Parallele, **Complesso Mascabruno**

[Clicca qui per il Book of abstracts](#)

Aula 1	Aula 2	Aula 7	Aula 8
<u>P17-Abiotic Stressors and Their Influence on Plant growth</u>	<u>P18- Development and nutraceutical aspects of Mediterranean crops</u>	<u>P19 - Sustainable agronomical practices in a changing climate</u>	<u>P20 - Light, Soil, and Sustainability: New Horizons in Crop Physiology and Management</u>

Ore 12:30 Sessioni Parallele, **Complesso Mascabruno**

Aula 1	Aula 2	Aula 7	Aula 8
<u>P21- Innovative Approaches in Plant tree Phenotyping and Environmental Stress Mitigation</u>	<u>P22-Advances in Microbiome Interactions, Biocontrol Strategies, and Breeding for Resilient Tomato Cultivation</u>	<u>P23-Sustainable Forest and Agroforestry Management: Integrating Biomass, Ecosystem Services, and Climate Resilience</u>	<u>P24-From Genetic Variability to Market Preferences: A Multidisciplinary Approach in Viticulture</u>

Venerdì 6 Giugno 2025

Ore 13:30 Pranzo + Sessione Poster 2, Galoppatoio

Ore 14:30 Sessione Plenaria sulle soft skills, Aula 1 Complesso Mascabruno

COLTIVARE OPPORTUNITÀ: SELF-BRANDING E NETWORKING PER LA CRESCITA PROFESSIONALE

Dott.ssa Manuela Tortese Time Vision - Formazione, Consulenza, Lavoro

THE BLUEPRINT FOR A SUCCESSFUL PROJECT PROPOSAL: FROM IDEA TO APPROVAL

Dott. Ahmed Saidi - Università degli Studi di Napoli Federico II

Ore 15:30 Sessioni Parallele, Complesso Mascabruno

Clicca qui per il Book of abstracts

Aula 1	Aula 2	Aula 7	Aula 8	Aula LING
<u>P25-Emerging Technologies in Circular Bioeconomy: Waste-Derived Solutions for Agriculture</u>	<u>P26-Sustainable Livestock Production: Environmental Monitoring and Product Quality.</u>	<u>P27-Assessing Soil Carbon Stocks and Fluxes: Methods and Applications in Cropping Systems</u>	<u>P28-Optimizing Irrigation and Water Use Efficiency in Open-Field Tomato Production</u>	<u>P29- Bridging the Gap: Developing and Implementing Geospatial Decision Support Systems for Sustainable Land Use</u>

Ore 16:30 Pausa Caffè Galoppatoio, Complesso Mascabruno

Ore 17:00 Sessione Plenaria, Aula Cinese, ingresso Piazza Carlo di Borbone

PREMIAZIONE MIGLIOR CONTRIBUTO ORALE

PREMIAZIONE MIGLIOR POSTER

PREMIAZIONE MIGLIOR CONTRIBUTO IN ECONOMIA AGRARIA - Premio Maurizio Canavari

Saluti Finali e Presentazione AISSA #under40 2026, Francesco Ferrero, Università di Torino

Ore 20:30 Degustazione di Pizza - Pizzeria Regina Farina



Si ringraziano per il supporto:



Soil organic matter pattern in an olive orchard with different management practices for 21 years

Rosangela Addesso ^{1*}, Fabrizio Araniti ², Andrea Bloise ³, Adriano Sofo ¹

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² Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy, University "Statale" of Milan, Via Celoria 2, 20133 Milan, Italy

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Climate change and resource depletion due to population growth emphasize the need for conservation-based agricultural practices to prevent soil degradation. Studying soil organic matter (SOM) dynamics across different land uses is essential for assessing soil health and guiding sustainable agriculture. This study examined the physicochemical properties of soils from a Mediterranean olive orchard sustainably (S_{mng}) and conventionally (C_{mng}) managed for 21 years. The focus was on SOM in aggregates at three depths (0-5, 5-15, 15-30 cm) and across three aggregate size classes (1-0.250, 0.250-0.063, <0.063 mm). S_{mng} soils had higher total carbon (+50.7%) and nitrogen (+74.9%), as well as a greater aromatic OM component (+76.0%) in the 0-5 cm layer compared to C_{mng} soils, suggesting slower transport of organic matter into deeper layers. This effect was especially pronounced in micro-aggregates (<0.063 mm), with increases in carbon (+59.3%), nitrogen (+86.7%), and aromatic OM (+87.7%) in S_{mng} soils, likely due to their ability to bind small colloidal particles. S_{mng} soils also showed increased bacterial abundance and different accumulation of organic compounds from microbial fermentation, reflected in the OM's qualitative profile. Soil tillage in C_{mng} caused mineral alterations, whereas S_{mng} soils retained higher crystallinity. Examining the quality, stability, and interaction of SOM with mineral components, helps to understand its degradability and ecological behavior, which is crucial for mitigating climate change impacts and promoting land conservation. This study was carried out within the Agritech National Research Center and received funding from the European Union Next-GenerationEU (PIANO NAZIONALE DI RIPRESA E RESILIENZA (PNRR) – MISSIONE 4 COMPONENTE 2, INVESTIMENTO 1.4 – D.D. 1032 17/06/2022, CN00000022). This work reflects only the authors' views and opinions, neither the European Union nor the European Commission can be considered responsible for them.

Keywords: Aggregate-associated organic matter, Soil metabolomics, Soil mineralogy, Sustainable soil management, Agroecology

References

Addesso, R., Araniti, F., Bloise, A., Mininni, A. N., Dichio, B., López-González, D., ... Sofo, A. (2025). Soil organic matter quality in an olive orchard differently managed for 21 years: Insights into its distribution through soil aggregates and depth. *Agriculture, Ecosystems & Environment*, 380, 109388. doi: 10.1016/j.agee.2024.109388