

5-6 november 2025 Aula Magna - Centro di servizio di Ateneo per le Scienze e Tecnologie per la Vita (CESTEV)

Day 1 | **5 November 2025**

09 30-10 00 Welcome addresses and Opening remarks

SESSION 1 | RETHINKING THE MEDITERRANEAN DIET

Chairs: Angelo Santino, Antonio Francesco Logrieco and Federica Prinelli

10.00-10.30 Med Diet: Beyond the new guidelines

keynote speaker: Roberto Volpe, CNR & Fondazione Dieta Mediterranea - Italy

- 10.30-10.45 Impacts of an antioxidant-rich diet and lifestyle factors on gut microbiota diversity and brain health: an exploratory analysis from the NutBrain Study - Federica Prinelli
- 10.45-11.00 Human gut microbiota modulation by polyphenols from traditional mediterranean foods: a SHIME®-based in vitro study - Isabella D'Antuono
- Innovations in fermentation of black cabbage to enhance its nutritional and 11.00-11.15 functional profile - Gianluca Bleve
- 11.15-11.30 Bioprospecting of six polyphenol-rich mediterranean wild edible plants reveals antioxidant, antibiofilm and bactericidal properties against methicillin resistant staphylococcus aureus - Francesca Mariani



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11.30-12.00 Coffee break

SESSION 2 | NEW TECHNOLOGIES FOR FOOD NUTRITIONAL AND QUALITY IMPROVEMENT

Chairs: Gianna Palmieri and Laura Pucci

- 12.00-12.30 *Healthy plants healthy people; enhancing phytonutrients in tomato* keynote speaker: **Cathy Martin/Eugenio Butelli**, John Innes Centre (Norwich, Uk)
- 12.30-12.45 Molecular simulations for studies on the biological activity of components from food matrices and their role **Angelo Facchiano**
- 12.45-13.00 Biofortification of lemna minor l. with iodine: cultivation strategies and nutritional implications **Massimiliano D'Imperio**
- 13.00-13.15 Redesign traditional particle production processes by membrane technology to achieve high efficiency and sustainability **Emma Piacentini**
- 13.15-13.30 Sourdough fermentation enhances nutritional and biofunctional compounds in spelt wheat (Triticum dicoccum) flour: assessment through in vitro gastrointestinal digestion Morena Gabriele
- 13.30-15.00 Lunch break & Poster session

SESSION 3 | MODELS AND MARKERS FOR BETTER PREVENTION STRATEGIES

Chairs: Silvia Bione and Fabio Lauria

15.00-15.30 Obesity and physical inactivity: today's equivalent of smoking. How to enhance healthy lifestyle

keynote speaker: **Guido laccarino**, Università degli Studi di Napoli "Federico II", (Naples, Italy)

15.30-15.45 Longitudinal association between insulin clearance and age and targeted metabolites in individuals at risk of type 2 diabetes - **Carlo Alberto Rossi**



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15.45-16.00	Low concentrations of dietary phytochemicals protect human myeloid and intestinal cells from oxidative stress, supporting cancer chemoprevention - Maria Russo
16.00-16.15	Sex- and age-dependent metabolic pathways as therapeutic targets in neuropathic pain: from biomarkers to nutraceutical interventions - Sara Marinelli
16.15-16.30	Quantitative lipidomics identified serum markers of inflammation associated with obesity in aging mice - Giorgia Zadra
16.30-17.00	Coffee break
	Coffee break
17.00-17.10	NUTRAGE at a glance Federica Tenaglia
17.00-17.10 17.10-18.30	

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SESSION 4 | VALIDATION OF FUNCTIONAL FOODS/PHYTOCHEMICALS-ENRICHED MATRICES

Chairs: Sara Marinelli and Rosalba Giacco

- 09.30-10.00 Extravirgin olive oil polyphenols for healthy aging: from bench to bedside keynote speaker: Luciana Mosca, Sapienza Università di Roma (Rome, Italy)
- 10.00-10.15 Prolonged high-fat diet induces neuroinflammation, oxidative stress, and glucose metabolism dysregulation in mice **Sara Belloli**
- 10.15-10.30 Protective effects of hydroxytyrosol, a component of olive oil, and extracts from olive oil by-products on cognitive decline, loss of muscle function and alterations in the gut microbiota in aged mice **Laura Micheli**



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- 10.30-10.45 Natural oleacein modulates shared pathways in Alzheimer's disease and neuroblastoma Mariamena Arbitrio
- 10.45-11.00 Protective effects of optimised fermented wheat flour against inflammation in intestinal cells through the release of fibre-bound bioactive compounds **Elena Tomassi**
- 11.00-11.30 Coffee break

SESSION 5 | RECOVERY OF BIOACTIVE COMPOUNDS FROM SIDE-PRODUCTS OF AGRIFOOD CHAINS

Chairs: Angela Cardinali and Roberto Consonni

- 11.30-12.00 *Phytochemicals in chronic inflammatory syndromes*keynote speaker: **Marcello Chieppa**, Università del Salento (Lecce, Italy)
- 12.00-12.15 Agri-food waste biotransformations into bioactive peptides by extremophilic enzymes: production of innovative and eco-sustainable phytostimulants **Gianna Palmieri & Emanuela Galatola**
- 12.15-12.30 A simple and eco-friendly route to valorize fennel wastes through the recovery of functional compounds and their separation with sustainable membrane technologies **Carmela Conidi**
- 12.30-12.45 Sustainable extraction and microencapsulation of phenolic compounds from Castanea sativa byproducts: implications for functional foods and chemoprevention **Stefania Moccia**
- 12.45-13.00 Anti-Inflammatory potential of citrus peel extracts: comparative analysis of methanol and ethanol extracts Maria Tufariello & Alessandro Miraglia
- 13.00-14.00 Lunch break & Poster session

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SESSION 6 | KNOWLEDGE AND DIGITAL SOLUTIONS FOR A BETTER NUTRITION

Chairs: Marianna Noale and Angelo Facchiano

- 14.00-14.15 Non-invasive systems for home monitoring of elderly patients' quality lifestyle Mario Magliulo
 14.15-14.30 Recognition of apps on the market linked to lifestyles from a nutritional and general well-being perspective Fabrizio Pecoraro
- 14.30-14.45 Nutritional knowledge among Italian secondary school students: a cross-sectional study **Federica Limongi**
- 14.45-15.00 Nutritional education and elderly engagement: an effective model to improve dietary habits in line with the mediterranean diet **Stefano Predieri**
- 15.00-15.15 Food and Active Ageing: Inclusive Policy Recommendations **Elena Pagliarino**
- 15.15-16.15 **POSTER AWARDS (5 MIN. PRESENTATIONS)**
- 16.15-16.30 Conclusions and Closing Remarks

Scientific Committee

Antonia Gallo, Antonio Francesco Logrieco, Mario Magliulo, Sara Marinelli, Angelo Santino, Federica Tenaglia

Local Organizing Committee

Stefania Crispi, Mario Magliulo, Gianna Palmieri