



INTERNATIONAL WORKSHOP

Multidisciplinary studies for Sustainable Agriculture: The Farm to Fork Strategy

Aula Magna, Department of Agriculture, Food and Environment (DAFE), University of Pisa
December 1, 2022

Agricultural practices to reach sustainable food production

09:00

Registration

Aula Magna, DAFE University of Pisa

09:10

Welcome Address: Prof. Marcello Mele

Director of the DAFE, University of Pisa, IT

9:30

Award POT_10 ceremony

Istituto Istruzione Superiore Parentucelli-Arzelà for the creation of a comic strip related to the workshop "From Farm to Fork... To Future"

Session I

Integrated resource management in farming systems

Chair: Dr. Lorenzo Cotrozzi

09:45

Water resources management in drought prone area

Prof. Giovanni Rallo, University of Pisa, IT

10:15

Multifunctional landscapes: opportunities and challenges for sustainable agriculture

Dr. Sara Burbi, University of Coventry, UK

10:45

Life Cycle Assessment (LCA) analysis method

Dr. Sara Sturiale, PhD student, University of Pisa, IT

11:00

Coffee break

11:15

Nitrogen management of crops

Prof. Francesco Tei, University of Perugia, IT

11:45

Nitrogen management and nitrogen emissions in grazing systems

Dr. Matteo Finocchi, PhD student, University of Pisa, IT

12:00

Phosphorus fertilizers from by-products: closing the loop

Dr. Chiara Pistocchi, l'Institut Agro Montpellier, Montpellier, FR

12:30

Slow-release fertilizers combining by-products: a promising resource?

Dr. Valentina Cantini, PhD student, University of Pisa, IT

12:45

Lunch



Session II

Farming practices to reach Sustainable Development Goals (SDGs)

Chair: Prof. Andrea Serra

- 14:15** **Vegetation spectroscopy: a tool for the early detection and monitoring of plant diseases**
Dr. Lorenzo Cotrozzi, University of Pisa, IT
- 14:45** **Detection of temporal and spatial development of wheat blast disease by hyperspectral data**
Dr. Giuseppe Quaratiello, PhD student, University of Pisa, IT
- 15:00** **Innovative biostrategies against mycotoxigenic fungi in Mediterranean crops**
Dr. Samuele Risoli, PhD student, University School for Advanced Studies IUSS, Pavia - University of Pisa, IT
- 15:15** **Practical experiences removing AMU in pigs**
Dr. Edgar Garcia Manzanilla, Pig Development Department, Teagasc Animal and Grassland Research and Innovation Centre, Moorepark, Fermoy, Co. Cork, IE
- 15:45** **Swine nutrition in the age of Holobiont**
Dr. Roxana Elena Amarie, PhD student, University of Pisa, IT
- 16:00** **Coffee break**
- 16:15** **Development of knowledge on agroecosystem services through a multidisciplinary holistic approach: ten years of agroforestry research in Pisa, Italy**
Dr. Alberto Mantino, University of Pisa, IT
- 16:45** **Modeling agroforestry systems with Yield-SAFE**
Dr. Alice Ripamonti, PhD student, University of Pisa, IT
- 17:00** **Farmers' knowledge and perceptions: how do they contribute to the resilience of marginal farming systems? Examples from the crop breeding debate**
Dr. Martina Occelli, Cornell University, Ithaca, USA
- 17:30** **Insects for feed: sustainability and circular economy**
Prof. Laura Gasco, University of Torino, IT
- 18:00** **The farm to fork strategy in support of sustainable aquatic productions**
Prof. Concetta Messina, University of Palermo, IT
- 18:30** **Discussion and conclusions**



December 2, 2022

Sustainable innovation in food chain

8:30 **Registration**
Aula Magna, DAFE, University of Pisa

Session III *Food strategy to promote quality production*

Chair: Prof. Francesca Galli

- 8:45** **Quality and sustainability in value chain strategies**
Prof. Gianluca Brunori, University of Pisa, IT
- 9:15** **Application and determination of the analytical results on the wine through the use of NIR spectroscopy**
Prof. Daniel Cozzolino, University of Queensland, Brisbane, AUS
- 9:45** **Application of sensors and spectroscopy for the evaluation of wine quality**
Dr. Stefano Pettinelli, PhD student, University of Pisa, IT
- 10:00** **The key role of agricultural knowledge and innovation systems (AKIS) for the achievement of the CAP objectives**
Dr. Patrizia Proietti, CREA researcher, Florence, IT
- 10:30** **Reuse of food waste derived from processing of fruit and vegetables**
Dr. Costanza Ceccanti, University of Pisa, IT
- 11:00** **Coffee break**
- 11:15** **Photomodulation of targeted secondary metabolites *in planta***
Dr. Giulia Lauria, PhD student, University of Pisa, IT
- 11:45** **Metabolomics elucidation of chemical fingerprints for the authenticity and traceability of food**
Prof. Luigi Lucini, Università Cattolica del Sacro Cuore, Piacenza, IT
- 12:00** **Plant pathogens in hydroponics: impacts, diagnosis and management**
Dr. Andrea Minuto, Agricultural Experimentation and Assistance Center (CeRSAA) Albenga, IT
- 12:30** **Occurrence of fungal pathogens in hydroponically grown halophytic crops**
Dr. Emiliano Delli Compagni, PhD student, University of Pisa, IT
- 12:45** **Edible Green Infrastructure: new opportunities for ecosystem services**
Dr. Hafsa El Horri, PhD student, University of Pisa, IT
- 13:00** **Discussion and conclusions**

In order to attend the Workshop, registration is required at the link below by date 24/11/2022:

<https://forms.office.com/r/5Lsni8r352>

Tap [here](#) to link for remote workshop

