



## 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**      **The farm to fork strategy in support of sustainable aquatic productions**  
Prof. Concetta Messina, University of Palermo, IT
- 17:30**      **Insects for feed: sustainability and circular economy**  
Prof. Laura Gasco, University of Torino, IT
- 18:00**      **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
- 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**      **Application and determination of the analytical results on the wine through the use of NIR spectroscopy**  
Prof. Daniel Cozzolino, University of Queensland, Brisbane, AUS
- 9:15**      **Application of sensors and spectroscopy for the evaluation of wine quality**  
Dr. Stefano Pettinelli, PhD student, University of Pisa, IT
- 9:30**      **Environmental sustainability policies of the Tuscany Region**  
Dr. Livia Lazzarotto, Regione Toscana
- 10:00**      **Quality and sustainability in value chain strategies**  
Prof. Gianluca Brunori, University of Pisa, IT
- 10:30**      **The key role of agricultural knowledge and innovation systems (AKIS) for the achievement of the CAP objectives**  
Dr. Patrizia Proietti, CREA researcher, Florence, IT
- 11:00**      **Coffee break**
- 11:15**      **Reuse of food waste derived from processing of fruit and vegetables**  
Dr. Costanza Ceccanti, University of Pisa, IT
- 11:45**      **Photomodulation of targeted secondary metabolites in planta**  
Dr. Giulia Lauria, PhD student, University of Pisa, IT
- 12:00**      **Metabolomics elucidation of chemical fingerprints for the authenticity and traceability of food**  
Prof. Luigi Lucini, Università Cattolica del Sacro Cuore, Piacenza, IT
- 12:30**      **Plant pathogens in hydroponics: impacts, diagnosis and management**  
Dr. Andrea Minuto, Agricultural Experimentation and Assistance Center (CeRSAA) Albenza, IT
- 13:00**      **Occurrence of fungal pathogens in hydroponically grown halophytic crops**  
Dr. Emiliano Delli Compagni, PhD student, University of Pisa, IT
- 13:15**      **Edible Green Infrastructure: new opportunities for ecosystem services**  
Dr. Hafsa El Horri, PhD student, University of Pisa, IT
- 13.30**      **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





MULTIDISCIPLINARY STUDIES  
SUSTAINABLE AGRICULTURE

