



# Conference



## Towards circular economy in the agri-food sector: strategies and challenges

Final Conference of the FEDKITO project

September 12<sup>th</sup>, 2023

Aula Magna of the Department of Agriculture, Food and Environment (DAFE)

Via del Borghetto, 80 - 56124 - Pisa

### SCIENTIFIC COMMITTEE

**Barbara Conti** Università di Pisa (Italy)  
**Elisa Micheli** Università di Bologna-Alma Mater Studiorum (Italy)  
**Aziz Amine** University of Casablanca (Morocco)  
**Christos Athanassiou** University of Thessaly (Greece)  
**Annalisa Tassoni** Università di Bologna-Alma Mater Studiorum (Italy)

### ORGANIZING COMMITTEE (University of Pisa, Italy)

**Barbara Conti** (barbara.conti@unipi.it)  
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### Tentative program

08:30-9:00 Registration of Participants

09:00-9:15 Istitutional Greetings

### Session 1. Bio-based solutions for the agri-food sector

#### Key-note speakers

09:15-09:30 **Annalisa Tassoni** University of Bologna (Italy) PROLIFIC and AGRIFOOP projects  
09:30-09:45 **Gianfranco Romanazzi** University of Marche (Italy) StopMedWaste project  
09:45-10:00 **Santa Olga Cacciola** University of Catania (Italy) BiOrangePack project  
10:00-10:15 **Barbara Conti** University of Pisa (Italy) Fedkito project

10:15-10:45 COFFEE BREAK

### Session 2. Towards a plastic-free packaging

Chair Prof. Annamaria Ranieri

#### Key-note speaker

10:45-11:00 **Beatrice Coltelli** University of Pisa (Italy) - Renewable, biodegradable, and recyclable materials for functional packaging

#### Communications

11:00-11:15 **Antonella Castagna** University of Pisa (Italy) - The chitosan "solution" to preserve the food quality  
11:15-11:30 **Marwa Khemakhem** IPC (France) - The sustainable packaging based on chitosan and essential oils  
11:30-11:45 **Annamaria Celli** - University of Bologna (Italy) - Bioactive additives and new materials from agri-waste: a contribute to the circular economy  
11:45-12:00 **Fabio Bartolini** University of Ferrara (Italy) - The economics of the sustainable packaging  
12:00-13:00 **3-4 Oral communications to be selected**

13:00-14:00 LUNCH

### Session 3. Insects for food waste recovery in the circular economy

Chair Prof. Sara Savoldelli

#### Key-note speaker

14:00-14:15 **Rumbos Christos** University of Thessaly (Greece) - Making "gold" out of trash: Exploitation of agri-food waste streams for insect production

#### Communications

14:15-14:30 **Christos Athanassiou** University of Thessaly (Greece) - Insects for food and feed: current status and research priorities  
14:30-14:45 **Alessia Mannucci** University of Pisa (Italy) - Extraction, characterization, and yield of chitosan extracted from insects  
14:45-15:00 **Linda Abenaim** University of Pisa (Italy) - The plastivorous activity of insects for waste recovery  
15:00-15:30 **2 Oral communications to be selected**

### Session 4. Innovative approaches to improve and monitor food safety and quality

Chair Prof. Annalisa Tassoni University of Bologna

#### Key-note speakers

15:30-15:45 **Elisa Micheli** University of Bologna (Italy) - Paper-based optical biosensors for monitoring food quality and safety  
15:45-16:00 **Amine Aziz** University of Casablanca (Morocco) - Electrochemical biosensors for food contaminants detection

#### Communications

16:00-16:15 **Francesca Venturi** University of Pisa (Italy) - The sensory analysis of fresh food coated with chitosan solutions added with essential oils  
16:15-16:30 **Sabrina Sarrocco** University of Pisa (Italy) - Chitosan and essential oils to protect fresh fruits from *Penicillium* spp. infections during storage  
16:30-16:45 **David Siaussat** University of Sorbonne (France) - The combined effect of chitosan and essential oils on the pest *Spodoptera littoralis*  
16:45-17:00 **Priscilla Farina** University of Pisa (Italy) - Liquid chitosan with essential oils to protect fresh foodstuffs from the oviposition of dipteran pests  
17:00-17:15 **Najla Trabelsi** CBBC (Tunisia) - Effect of chitosan coating solutions enriched with essential oils on fresh foods quality during storage  
17:15-17:30 **Soumia El Boumlasy** University of Catania (Italy) - Development of new technological solutions to extend the shelf life of citrus fruits  
17:30-18:00 **Federico La Spada** University of Catania (Italy) - New eco-friendly antifungal products for managing plant pathogens in the citrus fruit supply chain

18:00-18:30 DISCUSSION and CONCLUSIONS

