



Final Conference of the FEDKITO project

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

September 12th, 2023

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

Via del Borghetto, 80 - 56124 - Pisa

SCIENTIFIC COMMITTEE

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Program

08:30-09:00 REGISTRATION OF PARTICIPANTS

09:00-09:30 INSTITUTIONAL GREETINGS

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

Key-note speakers

09:30-09:45 Barbara Conti University of Pisa
09:45-10:00 Annalisa Tassoni University of Bologna
10:00-10:15 Gianfranco Romanazzi University of Marche
10:15-10:30 Santa Olga Cacciola University of Catania

FEDKITO project
PROLIFIC and AGRIFOOP projects
StopMedWaste project
BioOrangePack project

10:30-11:15 COFFEE BREAK

Session 2. Towards a plastic-free packaging

Chair Prof. Annamaria Ranieri University of Pisa

Key-note speaker

11:15-11:30 Maria-Beatrice Coltelli University of Pisa - Renewable, biodegradable, and recyclable materials for functional packaging

Communications

11:30-11:45 Antonella Castagna University of Pisa - The chitosan "solution" to preserve the food quality
11:45-12:00 Marwa Khemakhem IPC - Sustainable packaging based on chitosan and essential oils
12:00-12:15 Annamaria Celli - University of Bologna - Bioactive additives and new materials from agri-waste: a contribute to the circular economy
12:15-12:30 Fabio Bartolini University of Ferrara - The economics of sustainable packaging

12:30-14:00 LUNCH

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

Chair Prof. Sara Savoldelli University of Milan

Key-note speaker

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

Communications

14:15-14:30 Christos Athanassiou University of Thessaly - Insects for food and feed: current status and research priorities
14:30-14:45 Linda Abenaim University of Pisa - The plastivorous activity of insects for waste recovery
14:45-15:00 Alessia Mannucci University of Pisa - Extraction, characterization and yield of chitosan derived from *H. illucens* (Diptera Stratiomyidae) pupae reared with different organic waste-based diets

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

Chair Prof. Annalisa Tassoni University of Bologna

Key-note speakers

15:00-15:15 Elisa Michelini University of Bologna - Paper-based optical biosensors for monitoring food quality and safety
15:15-15:30 Aziz Amine University of Casablanca - Electrochemical biosensors for food contaminants detection

Communications

15:30-15:45 Soumia El Boumlasy University of Catania - Development of new technological solutions to extend the shelf life of citrus fruits
15:45-16:00 Federico La Spada University of Catania - New eco-friendly antifungal products for managing plant pathogens in the citrus fruit supply chain
16:00-16:15 Chiara Sanmartin University of Pisa - Sensory analysis as a screening tool for the feasibility of essential oils combined with chitosan as food storage protectants
16:15-16:30 Sabrina Sarrocco University of Pisa - Application of chitosan and essential oils to protect fresh fruits from *Penicillium* spp. infections during storage
16:30-16:45 David Siaussat University of Sorbonne - Have chitosan associated to essential oil a protective effect on tomatoes against the pest *Spodoptera littoralis*?
16:45-17:00 Priscilla Farina University of Pisa - Liquid chitosan with essential oils to protect fresh foodstuffs from the oviposition of dipteran pests
17:00-17:15 Najla Trabelsi CBBC - Effect of chitosan coating solutions enriched with essential oils on fresh food quality during storage

17:15-17:30 DISCUSSION AND CONCLUSIONS

