

UNIBO & MSU FOR A SUSTAINABLE FUTURE

#EU GREEN WEEK

Securing Agriculture in a Changing Climate: Water-Energy-Food Nexus Solutions for Global Sustainability



Classroom 2, viale Fanin 44, Bologna
Department of Agricultural and Food Sciences (DISTAL)
10 June 2025

Morning Agenda: Departmental Networking & Lectio Session 09:00 – 12:00

Introduction - Project introduction and overview of the planning events

09:00 – 09:30 **Prof. Francesca Valenti**
Project coordinator
Prof. Diana Di Gioia
PhD Programme in Agricultural, Environmental and Food Science and
Technology coordinator

DISTAL - Department Introduction and research activities

09:30 – 09:45 **Prof. Chiara Cevoli**
Delegate for International Relations

DIMEVET - Department Introduction and research activities

09:45 – 10:00 **Prof. Alessandra De Cesare**
Delegate for International Relations

DICAM - Department Introduction and research activities

10:00 – 10:15 **Prof. Vittorio Di Federico**
Delegate for International Relations

LECTIO - “*Securing Agriculture in a Changing Climate: Water-Energy-Food Nexus Solutions for Global Sustainability*”

10:15 – 12:00 **Prof. Wei Liao**
Visiting Professor from Michigan State University (MSU) U.S.
Department of Biosystems and Agricultural Engineering (BAE)
Director of Anaerobic Digestion Research and Education Center
(ADREC)



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Afternoon Agenda – PhD Research Presentations 15:00- 18:00

PhD students from DISTAL, DIMEVET, and DICAM

15:00 – 17:45

- **Giuseppe Maistrello – Supervisor: Prof. Attilio Toscano**
Integrated Strategies for Innovation and Sustainable Water Management at District Scale
- **Pietro Drei – Supervisor: Prof. Stevo Lavrnjic**
Design of Water Reuse Scenarios Based on Risk Assessment for Sustainable Agricultural Water Management
- **Elia Pagliarini – Supervisor: Prof. Loredana Baffoni**
Chemical and microbiological characterization of agro-industrial wastes and poultry manure for the production of mulching biofilms and fertilizers for soil nutrition
- **Emanuele Spizzirri – Supervisor: Prof. Francesca Valenti**
GreenFlow: Sustainable Solutions for Water-Energy Nexus
- **Francesca Ghiaccio – Supervisor: Prof. Andrea Formigoni**
Mitigation Strategies and Sustainability in Ruminant Nutrition: In vitro studies on the Reduction of Methane Emission by different Feed Additives
- **Alessia Federiconi – Supervisor: Prof. Alberto Palmonari**
Inside the rumen: microbial drivers of milk yield and quality
- **Gulnara Guluzade – Supervisor: Prof. Alessandra De Cesare**
The Hidden Threat of Staphylococcus aureus in Dairy and Its Global Sustainability Impact
- **Emma Jones – Supervisor: Prof. Lorenzo Bertin & Gonzalo A. Martinez**
Microbial Valorization of Agro-Industrial Byproducts through Chain Elongation and PHA Production
- **Akarsh Swamilingappa Annaiah – Supervisor: Prof. Lorenzo Bertin & Gonzalo A. Martinez**
Advanced wastewater treatment technologies in the framework of the new wastewater directives
- **Martina Santucci – Supervisor: Prof. Alessandra Bonoli**
The APPROACH pathways toward resilience in Tanzanian schools

Final remarks

17:45 – 18:00 Prof. Francesca Valenti and Prof. Wei Liao



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