

Wednesday 6 November. Sala Madrigale - PAVILION 36

H 15.00 - 17.00 Better nutrient recycling in circular bioeconomy: Biofertilizers, Active Molecules, and Soil Improvers

Description: With this training, the RuralBioUP Project aims to share a wide range of experiences that make agricultural production sustainable by enhancing residual organic resources from urban and rural contexts. In this perspective, experts from the entrepreneurial and research sectors will be involved, and a useful collaboration will be established between European projects with similar objectives.

Language: English, open to questions after each presentation

Chairman: Vito Pignatelli President of ITABIA Italian Biomass Association

Presentations:

- Biogas Plant Osimo, Eleonora Pettinari (Consultant) Anaerobic digestion of agricultural residues: Biomethane and digestate
- Acquedotto Pugliese, Nicola Tselikas (Green Strategies Area of the Environment and Energy Directorate) Valorization of sewage sludge and reclamation of wastewater in agriculture - The experience of Acquedotto Pugliese
- CREA Cereal and Industrial Crop Research Centre, Roberto Matteo Active molecules and sustainable farming practices
- ULTIMATE Project, Chiara Cusenza, Aretusa Consortium Reuse of reclaimed water in agriculture
- RUSTICA Project - CREA - Research Centre for Agricultural Policies and Bioeconomy, Federica Cisilino and Claudio Mondini Innovative Solutions for Transforming Organic Residues into Sustainable Bio-Based Fertilizers
- EXCALIBUR Project - Lorenzo D'Avino CREA Agriculture and Environment Microarthropod ecological indices to assess mycorrhizae inocula across Europe
- DELISOIL Project - Nelson Marmiroli and Caterina Agrimonti (CINSA/Università di Parma) Soil improvers from food processing residues streams and Living Labs
- DELISOIL Project Annamaria Bevivino (ENEA) Microbiome-based innovations and soil improvers for agri-food sustainability and healthy soils
- Conclusions



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H 17.15 - 18.30 MULCHING+ Project: innovative technical tools for a sustainable agriculture

Description: the aim of the MULCHING+ project is to prepare innovative bio-films for mulching the soil, made from cellulose and chitosan and enriched with nutrients (nitrogen and phosphorous), in order to achieve a double benefit: the complete biodegradation of the films in the soil and the supply of nutrients.

Initial tests have shown that the bio-films are completely biodegraded in less than 4 months, increase the availability of nitrate and phosphorus for plants by more than 60 per cent and decrease the input of chemical fertilisers while providing alternatives to the use of conventional plastics.

Coordinator: Vito Armando Laudicina (vitoarmando.laudicina@unipa.it)

Presentation:

- Vito Armando Laudicina “Innovative mulching films for a sustainable agriculture”
- Sara Paliaga “Effect of biobased mulching films on soil chemical and biochemical properties”
- Antonio Gelsomino “Impact of buried debris from agricultural biobased mulching films on lettuce”

Partners: Università di Palermo, Scienze Agrarie, Alimentari e Forestali - Università Mediterranea di Reggio Calabria, Dipartimento Agraria - Università di Ferrara, Chimica Farmaceutica e Scienze Agrarie.

In collaboration with: Chimica Verde Bionet e CREA Agricoltura e Ambiente.

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