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28-29 OCTOBER 2024

Research Alliance Model Region Bioeconomy in the Rhenish Area DELEGATION

VISIT_PAVIA_PROGRAM

DAY 1 - 28 OCT. 2024

12.30 Arrival in Milan Linate Airport (pick-up, Gamma Rental Bus)

14.00/14.30 Arrival in Pavia, Palazzo Vistarino (check-in, light refreshments/sandwiches)

15.00/15.15 Getting to the venue, University of Pavia, Aula Foscolo (800 m-11 min walking)

Aula Foscolo - corso Strada Nuova 65, Pavia

Research Alliance Model Region Bioeconomy in the Rhenish Area meets NODES

15.30-15.40 Welcome messages, **Federico Forneris, Prorector for Research of the University of Pavia** (10')

15.40-16.20 DELEGATION: Presentation of the flagship-projects Competence Center Bio4MatPro and BioeconomyREVIER innovation cluster, **Prof. Dr. Ulrich Schwaneberg, Head of Chair of Biotechnology, RWTH Aachen University** and **Dr. Christian Klar, Head of coordination office BioeconomyREVIER, Research Center Jülich** (35' + 5' Q&A)

16.20-16.40 NODES project and Parco Cardano, **Lucia Marazzi, Area Ricerca e Terza Missione, University of Pavia** (15' + 5' Q&A)

16.40-17.00 Bioeconomy in Lombardy: an overview, **Maurizio Bettiga, Italbiotec** (15' + 5' Q&A)

17.00 Concluding remarks

17.15-17.30 Coffee break at Nuova Cafe' (C.so Strada Nuova) (delegates, only)

17.30-19.30 Pavia guided tour (delegates, only)

20.30-23.00 Welcome dinner at ristorante Torre degli Aquila (C.so Strada Nuova) (delegates, only)

DAY 2 - 29 OCT. 2024

8.30-8.45 Check-out

8.45 Pick-up at Palazzo Vistarino and transfer to the Orto Botanico (via S. Epifanio) (10 min, Gamma Rental Bus)

Networking with the researchers of Spoke 2, Spoke 6 and Spoke 7 - Visits of laboratories/facilities/spin-off

Spoke 6 – PRIMARY AGROINDUSTRY

Via S. Epifanio

Department of Earth Sciences and Environment (c/o Orto Botanico)

9.00-9.20 Suitability maps for the grapevine cultivation and for cultivations alternative (supplementary) to grapevine; management strategies in face of climate changes using alternative crops such as the olive tree (steno-mediterranean species), hazelnut, and herbaceous crops (**Graziano Rossi**)

9.20-9.40 Precision weed management PWM (assessment of different types of herbicide resistance, those induced by epigenetic mechanisms) (**Maura Brusoni, Carlo Maria Cusaro**)

Spoke 7 – SECONDARY AGROINDUSTRY

Department of Earth Sciences and Environment (c/o Orto Botanico)

9.40-10.00 Use of corn cobs as active component for smart packaging (**Michela Landoni**)

10.10-10.20 Getting to via Ferrata (10 min by Gamma Rental Bus)

Spoke 6 – PRIMARY AGROINDUSTRY

Via Ferrata 5 – aula Magenta piano D

Department of Industrial and Information Engineering

Department of Civil Engineering and Architecture

10.30-11.30 1) Agricultural energy hubs/communities (**Norma Anglani**, streaming); 2) Biosensors based on engineered living materials (3D bacterial bioprinting) to detect target compounds (for farms and maize crops) (**Lorenzo Pasotti, Franca Scozza**); 3) Innovation of agricultural production through the optimization of its buildings, production and use of energy and territorial and landscape reorganization (**Carlo Berizzi**)

11.40-11.50 Getting to via Bassi (10 min by Gamma Rental Bus)

Spoke 6 - PRIMARY AGROINDUSTRY (WINE)

Via Bassi 6

Department of Physics

12.00-12.20 Advanced optical sensing methods for vineyard management and production monitoring (based on e.g. NIIR) (**Pietro Galinetto, Maddalena Patrini**)

12.20-13.20 Light lunch at Mensa (canteen) Cravino

Via Taramelli 12

Department of Drug Sciences

13.30-13.50 Identification of biologically active extracts from grapevine waste materials and/or alternative cultivations byproducts with high value for industries (i.e. agriculture, medicine, food, pharmaceutical, nutraceutical and cosmetic industries); extraction methods of viticultural waste and byproducts (**Daniela Rossi**)

Spoke 7 – SECONDARY AGROINDUSTRY

Department of Drug Sciences

14.00-14.20 Development of innovative materials for packaging and smart-packaging from waste products (**Giuseppina Sandri**)

Spoke 2 – GREEN TECHNOLOGIES AND SUSTAINABLE INDUSTRIES

Department of Drug Sciences

14.30-15.00 1) (Re)design of new synthetic routes for fine chemical production. Biomass upcycling. Enzyme immobilization for biocatalysis (**Daniela Ubiali, Marina S. Robescu**);
2) Visit the pilot plant in the cosmetics lab (**Paola Perugini**)

Department of Chemistry

15.15-15.35 Preparation of materials for energy storage (hydrogen, electrodes for supercaps and batteries) from agri-food and industrial wastes. Preparation of materials for pollutants adsorption from agrifood wastes (**Chiara Milanese**)

15.45-16.05 Development of processes to convert CO₂ into useful products. 3D printing bioplastics. Use of plant waste (lignin) into graphene (**Daniele Dondi**)

16.10-16.20 Getting to Etichub spin-off c/o Polo tecnologico, via Cuzio (10 min by Gamma Rental Bus, pick-up c/o Polo Didattico di Farmacia)

16.25-16.45 Development of processes to use agro-industrial waste to produce new unconventional packaging and sustainable cosmetic products: Etichub (**Paola Perugini**)

16.45 Departure from Pavia to Torino (Gamma Rental Bus)
