

Agritech Spoke 2

Mid-Term Meeting

FEBRUARY 27-28, 2024

Università degli Studi di Napoli Federico II

Dipartimento di Agraria
Piazza Carlo di Borbone (ex Via Università 100)
Portici (Napoli)



Programme

TUESDAY, 27 FEBRUARY 2024

13.30 – 14.30 **Registration of participants**

SALA CINESE

Opening Session

14.30 – 14.45

- Danilo Ercolini – UNINA, Agritech Scientific Director
- Francesco Pennacchio – UNINA, Spoke2 Scientific Coordinator

SALA CINESE

Work Package Overview

14.45 – 15.30

- WP2.1** Lorenzo Marini – UNIPD, Matteo Montagna – UNINA
- WP2.2** David Turrà – UNINA, Lucia Zappalà – UNICT
- WP2.3** Giuliano Langella – UNINA, Francesco Vidotto – UNITO

Parallel Sessions

SALA CINESE – WP2.1

15.30 – 15.50 **Task 2.1.1** Fabio Sgolastra – UNIBO
Assessment of pollination deficit in pear orchards in relation to pollinator community, landscape context and farm management

15.50 – 16.10 **Task 2.1.1** Stefano Scalerio – CREA
Lepidopteran diversity across agricultural landscapes at multiple spatial scales

16.10 – 16.30 **Task 2.1.2** Luisa Manici – CREA
Biogeochemical and microbial indicators for a multivariate analysis of kiwifruit decline

16.30 – 17.00 *Coffee Break & Poster view*

17.00 – 17.20 **Task 2.1.2** Mariana Amato – UNIBAS
Belowground features in agrosystems: task 2.1.2 activities

17.20 – 19.00 **Discussion**

SALA BIANCA – WP2.2

15.30 – 15.50 **Task 2.2.1** Chiara Catalano – UNICT
Multiple-families analysis for the identification of QTLs linked to tolerance to mal secco disease in lemon

15.50 – 16.10 **Task 2.2.2** Luca Nerva – CREA
Improving stress resilience and agroecosystem services exploiting beneficial microbes

16.10 – 16.30 **Task 2.2.2** Stefania Vitale – UNINA
Pathogenicity mechanisms and exploitation of pathogen derived molecules

16.30 – 17.00 *Coffee Break & Poster view*

17.00 – 17.20 **Task 2.2.2** Stefano Mazzoleni – UNINA
Self-DNA inhibition for the biological control of *Orobanche ramosa* in tomato: evidence from metabolomic study

17.20 - 17.40	Task 2.2.5 Francesco Aloï - UNITO A new integrated solarization system for the containment of soilborne pathogens in strawberry plots
17.40 - 18.00	Task 2.2.5 Rita Massa - UNINA Electromagnetic field in agricultural applications
18.00 - 19.00	Discussion

SALA DEL CONSIGLIO - WP2.3

15.30 - 15.50	Task 2.3.5 Giuliano Langella - UNINA Development of the Agritech Spoke 2 DSS Platform
15.50 - 16.10	Task 2.3.5 Stefano Rizzi - UNIBO Meteo, pest risk, and treatment analysis using multidimensional cubes
16.10 - 16.30	Task 2.3.2 Pantaleone De Vita - UNINA The setting of agrochemicals transport monitoring and modeling in unsaturated and saturated zones for the assessment of specific groundwater vulnerability: the pilot site of Torre Lama (southern Italy)
16.30 - 17.00	<i>Coffee Break & Poster view</i>
17.00 - 17.20	Task 2.3.2 Valerio Cirillo - UNINA Weed communities identification in tender wheat: a multiscale approach

17.20 - 17.40	Task 2.3.2 Maddalena Campi - IBF servizi “ <i>Bactrocera oleae</i> ” management: a pipeline from data to process-based model and spatial distribution
17.40 - 19.00	Discussion

WEDNESDAY, 28 FEBRUARY 2024

Parallel Sessions

SALA CINESE - WP2.1

09.00 - 09.20	Task 2.1.3 Simone Tosi - UNITO Novel monitoring techniques for wild flora and arthropods
09.20 - 09.40	Task 2.1.3 Raffaele Velotta - UNINA Optical and electrochemical biosensors for environmental DNA detection
09.40 - 10.00	Task 2.1.4 Costanza Geppert - UNIPD Management variability of major agricultural systems across socio-environmental gradients
10.00 - 10.30	<i>Coffee Break & Poster view</i>
10.30 - 13.00	Open discussion and planning of collaborative activities

SALA BIANCA - WP2.2

09.00 - 09.20	Task 2.2.3 Alberto Pozzebón - UNIPD Resistance to pyrethroids in the predatory mite <i>Amblyseius andersoni</i> (Acari: Phytoseiidae)
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09.20 – 09.40	Task 2.2.3 Gelsomina Manganiello – UNINA Multipurpose bioformulations from the lab to the field
09.40 – 10.00	Task 2.2.3 Ilaria Di Lelio – UNINA New tools and strategies for insect control
10.00 – 10.30	<i>Coffee Break & Poster view</i>
10.30 – 10.50	Task 2.2.4 Anna Taglienti – CREA Identification of new biopesticides from alfalfa extracts and study of their potential against tomato pathogens
10.50 – 11.10	Task 2.2.4 Michele Ricupero – UNICT Target and non-target effects of essential oil-based insecticides
11.10 – 11.30	Task 2.2.4 Laura Righetti – CREA Protein hydrolysates from Brassicaceae oilseed by-products as potential biostimulants
11.30 – 13.00	Open discussion and planning of collaborative activities

SALA DEL CONSIGLIO - WP2.3

09.00 – 09.20	Task 2.3.1 Simona Vingiani – UNINA An up-scaling approach for studying soil and biomass variability in annual and perennial crops
09.20 – 09.40	Task 2.3.1 Antonio Carlomagno – UNIBAS Phenotyping the genotype x environment interaction by image analysis
09.40 – 10.00	Task 2.3.3 Sabina Laveglia – UNIBAS Image registration of multispectral camera in close-range application

10.00 – 10.30	<i>Coffee Break & Poster view</i>
10.30 – 10.50	Task 2.3.3 Emanuele Cerruto – UNICT Foliar deposit estimation in plant protection treatments
10.50 – 11.10	Task 2.3.4 Claudio Cristiani – CAI Use of dynamic data (DSS) for improving crop protections
11.10 – 11.30	Task 2.3.4 Daniela Spina – UNICT Drivers and barriers to increase the uptake of IPM plans
11.30 – 13.00	Open discussion and planning of collaborative activities

13.00 – 14.00 *Lunch & Poster view*

SALA CINESE

14.00 – 15.00	Spoke 2 strategic planning
15.00 – 15.30	<i>Coffee Break</i>
15.30 – 17.00	Spoke 2 strategic planning and concluding remarks