



CENTER OF  
PLANT SCIENCES



Sant'Anna  
School of Advanced Studies - Pisa



Agricoltori biologici  
dal 1978

## **“Landscape Management for Functional Biodiversity”**

**20-22 March 2024 Pisa, Italy**

**Piazza Martiri della Libertà 33, HQ Scuola Superiore Sant’Anna di Pisa**

Dear Colleague,

I’m happy to present the detailed programme of the 10<sup>th</sup> Workshop of the IOBC-WPRS Working Group on ‘Landscape Management for Functional Biodiversity’.

I look forward to welcoming you in Pisa! On behalf of the Organising Committee,

Camilla Moonen





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## Programme

Field trips will take place on Wednesday afternoon, leaving Pisa at 13.15 and returning at 18.00

### *Field trip A - Olive groves*

We will visit one of the olive groves that is part of the ECO-OLIVES project (<https://www.beamaas.com/projects.html>) and you will have a demonstration of various devices for monitoring of agrobiodiversity (e.g. birds, bats, arthropods). We will discuss about the pros and cons of these methods in relation to landscape context and research questions. After about 1.5h we will visit the Natural History Museum of Calci (<https://www.msn.unipi.it/en/>).

### *Field trip B – Agro-environmental Research Center ‘Enrico Avanzi’ of University of Pisa (CiRAA)*

We will visit the Agro-environmental Research Center ‘Enrico Avanzi’ of University of Pisa (<https://avanzi.unipi.it/>). We will show the rich landscape context and demonstrate how different arthropod sampling devices work and capture signals from the surrounding landscape. The arable fields are surrounded by pine tree and mixed woodland, planted to protect the fields from the salty strong wind coming from the sea. After the field visit, we will be guided through the Xth century Basilica of San Piero a Grado (<https://www.turismo.pisa.it/en/place/basilica-of-san-piero-a-grado>) that is situated at the heart of the Research Center. The legend goes that Saint Peter set first foot on Italian territory in 44 aC. In fact, this visit will be the start of a time travel showing you the history of Pisa and its surrounding. You will be surprised!

### *Social Dinner on Wednesday evening*

DUOMO  
GRAND HOTEL  
PISA

GRAND HOTEL DUOMO ▾ CAMERE & SUITE ▾ RISTORI



The social dinner will take place in the Tower Sky Launch of Grand Hotel Duomo, in Via Santa Maria 94, with a fabulous view on Piazza dei Miracoli and the famous Leaning Tower.

Matteo Del’Acqua, Coordinator of the Center of Plant Sciences at the Scuola Sant’Anna and Professor in Quantitative Plant Genetics (<https://www.santannapisa.it/it/matteo-dellacqua>) will give an opening speech presenting the Research Center and introducing Landscape Genomics.



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## PROGRAMME THURSDAY 21 AND FRIDAY 22 MARCH 2024

### AUDITORIUM NR 3 HQ SCUOLA SANT'ANNA

Time	Min	Presenter	Title of contribution	
THURSDAY 21 MARCH 2024				
Session "Projects"	9.00-9.10	10	Graham Begg Camilla Moonen	Welcome and opening
9.00-13.00	9.10-9.15	5	Graham Begg	Presentation of the IOBC WG Landscape Management for Functional Biodiversity
Chair: GRAHAM BEGG	9.15-9.20	5	Malgorzata Jedryczka	Presentation of IOBC WG Integrated Control in Oilseed Crops
	9.20-9.40	15+5	Malgorzata Jedryczka	<i>Raphanus sativus</i> L. – super hero for compact soils
	9.40-10.00	15+5	Greta Gubellini	The circular bioeconomy of Alce Nero organic supply chains
	10.00-10.20	15+5	Daniele Vergamini	Why do we need transformative biodiversity governance? An example from the Common Agricultural Policy
	10.20-10.30	5+5	Bea Maas	First results from ECO-OLIVES: Linking Biodiversity Conservation and Ecosystem Service Management in Mediterranean Olive Cultivation Landscapes
	10.30-11.00	30	<b>BREAK</b>	
	11.00-11.10	5+5	Malgorzata Jedryczka	Coexistence of crops: the air view
	11.10-11.20	5+5	Malgorzata Jedryczka	Can living mulches of small seeded legumes in wheat and oilseed rape improve sustainable ecosystem services at landscape scale?
	11.20-11.40	15+5	Serena Magagnoli	Flower strips promote natural enemies of aphids in commercial vegetable fields of Northern Italy
	11.40-12.00	20	<b>Q&amp;A and DISCUSSION</b>	
	12.00-12.10	5+5	Jenny Lazebnik	MOLAS and MIDAS : Two different takes on landscape management for biodiversity





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	Time	Min	Presenter	Title of contribution
	12.10-12.20	5+5	Elena Gagnarli	Ecosystem Services provided by terraced landscape features on microfauna biodiversity on vine leaves in Cinque Terre National Park
	12.20-12.45	15+10	Laura Mansier and Theo Simmons	Practice abstracts, what they are and why they are important
	12.45-14.15	90	LUNCH	
<b>Session "Biodiversity"</b>	14.15-14.35	15+5	Mona Schatke	Comparing threshold concepts for weed control
<b>14.30-18.00</b>	14.35-14.55	15+5	Johanna Bensch	The potential contribution of common arable weeds in German to birds and arthropods biodiversity– an open-access reference collection
<b>Chair: CAMILLA MOONEN</b>	14.55-15.15	15+5	Johannes Uhler	"nützLINK" – a monitoring approach for beneficial arthropods in agricultural landscapes in Germany
	15.15-15.35	15+5	Francesco Patriarca	Urban forest oases and their ecological importance: A study on the biodiversity of the entomological fauna in the Regional Park of Groane
	15.35-15.45	5+5	Dani Lucas-Barbosa	Flower reservoirs in organic stone fruit orchards: promoting functional biodiversity with a low input strategy
	15.45-16.00	15	Q&A and DISCUSSION	
	16.00-16.30	30	Break with snacks from Alce Nero	
	16.30-16.40	5+5	Rym Nouioua	Can olive groves support bat conservation during winter? A case study from Tuscany, Italy
	16.40-16.50	5+5	Tara Hanf-Dressler	Exploring bird diversity in olive agroforestry systems at local, landscape and seasonal scales
	16.50-17.00	5+5	Michele Bertoncini	Arthropod-mediated ecosystem services and dis-services responding to vertebrate exclusions and systematic tree pruning in Tuscan olive groves
	17.00-17.10	5+5	Manuela Villa Villegas	Exploring the effects of plant community composition on bird, bat, and arthropod communities in olive farms in Tuscany, Italy
	17.10-17.20	5+5	Niamh McHugh	Identification of arable Farmland Bird Indicator species
	17.20-18.00	40	Q&A and DISCUSSION	



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	Time	Min	Presenter	Title of contribution
<b>FRIDAY 22 MARCH 22</b>				
<b>Session "Pest Management"</b>	8.30-8.50	15+5	Cesar Monzo	Synergizing inoculative and conservation biological control strategies for pest management in subtropical Mediterranean woody crops: Plant species selection for ecological infrastructures
<b>8.30-13.00</b>	8.50-9.10	15+5	Silvia Vilumets	Spatiotemporal crop distancing and landscape complexity as key methods to control <i>Brassicogethes aeneus</i> through biocontrol
<b>Chair: ALICE CASELLI</b>	9.10-9.30	15+5	Sandrine Petit	Seed predation reduces weed biomass and contributes to crop productivity in arable fields
	9.30-9.50	15+5	Martina Falagiarda	How diversity of stink bugs and their parasitoids is affected by host plants and habitats
	9.50-10.10	15+5	Nils Bertels	Preference of <i>Encarsia tricolor</i> for cabbage crops and impact on cabbage whitefly parasitism
	10.10-10.30	20	<b>Q&amp;A and DISCUSSION</b>	
	10.30-11.00	30	<b>BREAK</b>	
	11.00-11.20	15+5	Quentin Mace	<i>Tithonia diversifolia</i> as a banker plant for beneficial arthropods protecting sugarcane fields from the Yellow Sugarcane Aphids in Tanzania
	11.20-11.40	15+5	Pierre Franck	A metabarcoding exploration of ecological interactions among hoverflies, spontaneous vegetation and aphids in apple orchards
	11.40-11.50	5+5	Susana Capitão	Influence of landscape composition and field management practices on olive fruit fly infestation
	11.50-12.00	5+5	Tanja Bohinc	Investigation on the synergism between environmentally friendly plant protection methods for suppression of onion thrips ( <i>Thrips tabaci</i> Lindeman) and onion fly ( <i>Delia antiqua</i> [Meigen]) on onion



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	Time	Min	Presenter	Title of contribution
	12.00-12.10	5+5	Hinomoto Norihide	Attract or arrest? Decision making based on population structure analysis
	12.10-12.20	5+5	Graham Begg	The response of predatory arthropods to crop and land-use intensity in an arable ecosystem
	12.20-13.00	40	Q&A and DISCUSSION	
	13.00-14.30	90	LUNCH	
<b>Session "Habitat Management"</b>	14.30-14.50	15+5	Laura Mansier	Population-dynamical model to optimise agricultural landscape management for natural pest control
<b>14.30-18.00</b>	14.50-15.10	15+5	Paul Bannwart	The role of flower strips for field spider communities in a biodiversity-based agroecological system
<b>Chair: DANIELA LUPI</b>	15.10-15.30	15+5	Ines Heyer	Inner borders – field boundaries around habitat islands on arable fields in comparison to outer field borders
	15.30-15.50	15+5	Alice Caselli	Are predators and parasitoids of <i>Bactrocera oleae</i> influenced by olive grove abandonment?
	15.50-16.00	10	Q&A and DISCUSSION	
	16.00-16.20	20	Break with snacks from Alce Nero	
	16.20-16.40	15+5	Matteo Dellapiana	Does land abandonment affect soil-dwelling predator abundances in a Mediterranean olive grove agroecosystem?
	16.40-17.00	15+5	Paul van Rijn	Flower strips in margins of potato fields: effects on biodiversity, predators and natural pest control
	17.00-17.10	5+5	Gilda Preto	Can spontaneous ground cover vegetation influence olive anthracnose disease incidence?
	17.10-17.40	30	Q&A and DISCUSSION	
<b>Closing Session</b>	17.40-18.00	20		