IOBC/WPRS

Integrated Protection of Olive Crops

8th IOBC/WPRS Meeting – Florence, Italy, June 4-7, 2018

Abstract book

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8th IOBC-WPRS meeting on

"Integrated Protection of Olive Crops"

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16:15-16:30	Coffee break
16:30-17:30	POSTER SESSION (Session 3)
Poster n. 16	***Xylosandrus compactus* (Coleoptera, Curculionidae, Scolytinae): a new possible threat for olive trees** *Valeria Francardi, Fabrizio Pennacchio*
Poster n. 17	**Evaluation of attractant devices for the monitoring of Olive Fruit Fly with particular reference to colour, size and selectivity toward natural enemies** *Pasquale Calabrese, Andrea Sciarretta*
Poster n. 18	**Captures of olive fruit fly in Alto Garda Trentino with different traps** *Massimo Mucci, Mario Baldessari, Franco Michelotti, Serena Giorgia Chiesa, Gino Angeli*
Poster n. 18b	**Secondary pest and climate changes affect Calabrian olive growing** *Veronica Vizzarri*
20:30	Gala dinner
	Thursday 7 June 2018
Session 4	***Biological and biotechnological control of pests and diseases in olive crops*** *Chairpersons: Virgilio Caleca and Jennifer Gillett-Kaufman*
9:15-9:30	**The contribution of ground predation to the reduction of the overwintering pupae of the olive fruit fly** *Malayka Samantha Picchi, Susanna Marchi, Albertini Alice, Ruggero Petacchi*
9:30-9:45	**Post mortem gut content analysis for determining the contribution of different soil predators to control *Bactrocera oleae*** *Esther Lantero Bringas, Susana Pascual López, Beatriz Matallanas Peñas, Carmen Callejas Hervás*
9:45-10:00	**The use of complementary approaches for conservation biological control: carabid and staphylinid beetles as natural enemies of the olive fruit fly** *Alice Albertini, Paula Baptista, Giovanni Burgio, Serena Magagnoli, Susanna Marchi, Fátima Martins, José Alberto Pereira, Ruggero Petacchi, Claudio Ratti, Sónia Alexandra Santos Paiva*
10:00-10:15	**Functional response of *Chrysoperla carnea* (Neuroptera: Chrysopidae) to *Saissetia oleae* (Olivier) (Hemiptera: Coccidae)** *Abdelkader Meni Mahzoum, María Villa Serrano, Jacinto Benhadi-Marín, José Alberto Pereira*
10:15-10:30	**Biodiversity and pollen feeding habits of syrphids in olive groves and surrounding landscape in northeastern Portugal during spring** *María Villa Serrano, Sónia Alexandra Santos Paiva, Rosalina Marrão, Lara Pinheiro, José António López-Sáez, Carlos Aguiar, José Alberto Pereira*

BIODIVERSITY AND POLLEN FEEDING HABITS OF SYRPHIDS IN OLIVE GROVES AND SURROUNDING LANDSCAPE IN NORTHEASTERN PORTUGAL DURING SPRING

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Many syrphid larvae are predators of aphids and early stages of moths and psyllids, being potential control agents of some olive pests. However, adults need pollen and nectar for energy and reproduction. An increase of plant resources biodiversity in heterogeneous landscape could benefit these natural enemies. Thus, our goal of was to study the syrphid biodiversity and their pollen sources in olive agroecosystems from the northeast of Portugal during spring, that coincides with the availability of pests. For that, syrphids were captured in three not-tilled olive groves and two surrounding field areas (a herbaceous vegetation patch and a scrubland) next to each olive grove. Simultaneously, flowering plant inventories were carried out. Syrphids and the pollen contained in the guts of the most abundant species were identified. Thereafter pollen in guts was compared with pollen in the environment to evaluate a potential pollen selection. The most abundant species were *Sphaerophoria scripta* and *Melanostoma mellinum*. During the spring syrphids did not consume all the occurring plant species but did not actively selected pollen types. Results indicated that Asteraceae, Plantaginaceae, Caryophyllaceae, Echium type, Rumex type and Jasione type are important food sources for *M. mellinum* and *S. scripta*. These results will allow managing ground cover vegetation more efficiently in order to conserve syrphid in the olive agroecosystem.