



WORKSHOP

New Frontiers for Bio-based Pest Containment

DATE: June 1, 2018

TIME: 9,30 – 12,30

ROOM: Aula Maggiore

Via Celoria 2, Milano

Host: Piero A. Bianco

Patrick Lambert (INRA, France): *Genetic selection for pest resistance in Prunus fruit crops* .

At the INRA Avignon, we have developed breeding programs aimed at selecting new Prunus cultivars introgressed with genetic resistance factors against several of the most detrimental pests and diseases for the orchards.

Davide Bulgarelli (University of Dundee, UK): *Structure, Function and Host Control of the Rhizosphere Microbiota'*

Plants live in close association with a myriad of different microorganisms collectively referred to as the plant microbiome. Members of the microbiome engage in interactions with plants which range from parasitism to mutualism. Unravelling the molecular basis of these interactions is a key to devise innovative strategies aiming at enhancing sustainable crop production.

Vittorio Venturi (I.C.G.E.B. , Trieste, Italy): *Interkingdom and interspecies signaling in plant associated bacteria*

Plant health is thought to heavily depend also on its microbiome and the signaling that occurs within. Interspecies and interkingdom signaling, is now a fast developing field of research; we are using plant associated bacteria to investigate these types of communication. Understanding these types of communication between microbiomes and plants are a step in the right direction for disease management.

Francesco Pennacchio (University of Napoli, Italy): *Immunity, stress and honeybee health*

Honeybee colony losses are often associated with high loads of parasites and pathogens, which are favored by reduced immune competence. The association between the parasitic mite Varroa destructor and the Deformed wing virus (DWV) appears to play a pivotal role in the spread of viral infection and in the induction of an immunodeficiency status.

Michele Sellitto (Sacom Lab -Italy): *Use of Microorganisms in Agriculture: from the lab to the field*

The aim of this is communication is introduce a new approach of management of soil fertility, control of major diseases and crop problems , in a context of sustainable and organic agriculture. by providing an overview of the basics of soil microbiology applied to agricultural processes through practical examples, analyzing also the process of manufacturing of a bio products: from the lab to the field.