



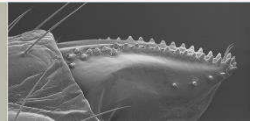
LINIVERSITÀ DEGLI STUDI  
DI TRENTO



FONDAZIONE  
EDMUND  
MACH

**FACING THE INVASION OF ALIEN ARTHROPODS SPECIES**  
ecology, modelling and control of their economic impact and public health implication

**Trento, 7-9 November 2016**



**BOOK of ABSTRACT**



Transcriptome profiling of adult *Drosophila suzukii* antennae

Cristina M. Crava<sup>1</sup>, Fabiana Sassù<sup>2,3</sup>, Gianfranco Anfora<sup>1</sup>

<sup>1</sup>Research and Innovation Centre, Edmund Mach Foundation, San Michele all'Adige, Trento, Italy

<sup>2</sup>Institute of Forest Entomology, Forest Pathology and Forest Protection, BOKU, University of Natural Resources and Applied Life Sciences, 1190 Vienna, Austria

<sup>3</sup>FAO/IAEA, Division of Nuclear Techniques in Food and Agriculture, A-2444, Seibersdorf, Austria

*Drosophila suzukii* is an emergent pest in Western countries that is seriously challenging soft fruit production. New and environmentally friendly control strategies are urgently needed to control the menace, and methods based in odor-guided behaviors may be promising. To this purpose, a comprehensive understanding of the genetics components underlying chemosensory perception is fundamental. Here, we present antennal transcriptome databases for both *D. suzukii* males and females. We then used these resources to identify genes involved in olfaction (chemosensory receptors and odorant binding proteins) whose expression is biased in one of the two sexes. Our data contribute to understand olfactory perception in *D. suzukii* and lay the foundation for a broader understanding of stimuli that may drive female oviposition behavior.

CONTACT MAIL: [maria.crava@fmach.it](mailto:maria.crava@fmach.it)