Low pesticide IPM in sustainable and safe fruit production: Life+ project

Marta Mari\textsuperscript{1}; Davide Spadaro\textsuperscript{2}; Rosemarie Tedeschi\textsuperscript{2}; Tomislav Jemrić\textsuperscript{3}; Božena Barić\textsuperscript{4}; Martina Skendrović Babojelić\textsuperscript{3}; Goran Fruk\textsuperscript{3}; Mladen Fruk\textsuperscript{3}; Agostino Brunelli\textsuperscript{1}

\textsuperscript{1}DipSA, University of Bologna, Viale Fanin 46, 40127, Bologna, Italy
\textsuperscript{2}DISAFA, University of Torino, Largo Braccini 2 (ex Via L. da Vinci 44), 10095 Grugliasco (TO), Italy
\textsuperscript{3}Department of Pomology, University of Zagreb Faculty of Agriculture, Svetošimunska c. 25, 100000 Zagreb, Croatia
\textsuperscript{4}Department of Agricultural Zoology, University of Zagreb Faculty of Agriculture, Svetošimunska c. 25, 10000 Zagreb, Croatia

(email:tjemric@agr.hr)
**Duration:** 42 months (16. 06. 2014.- 16. 12. 2017.)

**Implemented in:**
- Italy (Emilia-Romagna, Piemonte)
- Croatia (all regions)
PROJECT OBJECTIVES

- to set up and validate the best practices for IPM for fruit production
- to achieve a sustainable use of pesticides
- to secure a sustainable production of healthy apples and peaches with a minimal occurrence of pesticide residues
- to reduce the pesticide residues in fruit
- to maintain a high biological diversity in the ecosystem of the orchard
ACTIONS AND MEANS INVOLVED

Preparatory actions

Project management and monitoring of the project progress

Implementation actions

Communication and dissemination of results

Monitoring the impact of the project actions
Less insecticides in apple and peach production

Less fungicides in apple and peach production
EXPECTED RESULTS
EXPECTED RESULTS

- MAINTENANCE OF HIGH BIOLOGICAL DIVERSITY
- REDUCTION OF PESTICIDE RESIDUES (<60%)
- REDUCTION OF CHEMICAL PRESSURE
- INCREASE OF FRUIT QUALITY
- REDUCTION OF FRUIT LOSSES (<20%)
USE OF INSECTICIDES AGAINST APPLE CODLING MOTH AND ORIENTAL FRUIT MOTH IN CROATIA

Apple

Conventional farming (t)

Implementation of exclusion nets (t)

Peach and nectarine
AVERAGE NUMBER OF CHEMICAL TREATMENTS AGAINST APPLE CODLING MOTH AND ORIENTAL FRUIT MOTH IN ITALY

- Apple: 5 treatments
- Peach and nectarine: 4 treatments

- Conventional farming
- Implementation of exclusion nets
The Project “Life+SU.Sa.FRUIT” is realized with the contribution of the LIFE financial instrument of the European Union (Contract No LIFE13 ENV/HR/000580).