XF-ACTORS Final Meeting

DAY 2 – Tuesday 27 APRIL 2021 - 14.30-19.30

In the second day of the final meeting, speakers and presentations will cover the aspects related to the **bacterial vector transmission** and to the investigations on **antagonists and formulations** to mitigate the impact of the infections in susceptible plants. As far as the first aspect is concerned, in the session from 14.40 up to 17.30, scientists will present their research on **Philaenus spumarius'** feeding habits, life cycle and mating behavior. All those will feed a discussion on tools for sustainable population control of the vectors.
The second session will enlighten **interactions within *Xylella* population in the host plants and between the bacterium and other microorganisms** to leverage the 'natural' response of infected plants to support the bacterium's control. Researchers will present the results of their exploration of endophytic microbial communities to counteract the infection, the possible use of microorganisms and/or antimicrobials to control the pathogen.

SESSION 2	***Vectors and control strategies*** Chairs: Alberto Fereres (CSIC-ICA) and Micheal Maixner (JKI)
14.30-14.40	Introduction to the session
14.40-14.55	Feeding habits of Central European candidate vectors of *Xylella fastidiosa* on grapevine ***Anna Markheiser**, Julius Kühn-Institut (JKI), Institute for Plant Protection in Fruit Crops and Viticulture, Siebeldingen (DE)*
14.55-15.10	Diversity of vectors and their role in the spread of *Xylella fastidiosa* in olive orchards of Southeastern Brazil ***Joao R. S. Lopes**, Universidade de São Paulo, Piracicaba, São Paulo (BR)*
15.10-15.20	Q&A
15.20-15.35	New insights on *Xylella fastidiosa* subsp. *pauca* vector transmission to olive plants ***Domenico Bosco**, Institute for Sustainable Plant Protection, CNR (IT) and Department of Agriculture, Forestry and Food, University of Torino (IT)*
15.35-15.50	On the importance of multidisciplinary studies on insect vectors to better understand vector-borne plant diseases ***Astrid Cruaud** CBGP, INRAE, Montferrier-sur-Lez (FR)*
15.50-16.00	Q&A
16.00-16.15	Impact of low susceptible and resistant host plants on the transmission of *Xylella fastidiosa* subsp. *pauca* ST53 by *Philaenus spumarius* (Hemiptera: Aphrophoridae) ***Vincenzo Cavalieri**, Institute for Sustainable Plant Protection CNR, Bari (IT)*

16.15-16.30	Vibrational-disruption of the feeding behavior of a plant pathogen vector ***Sabina Avosani***, *Department of Civil, Environmental and Mechanical Engineering, University of Trento, Italy and Research and Innovation Centre, Fondazione Edmund Mach, San Michele all'Adige (IT)*
16.30-16.40	Q&A
16.40-16.55	Host plant selection by *Philaenus spumarius*: using ground covers as trap crops ***Marina Morente***, *Instituto Madrileño de Investigación y Desarrollo Rural, Agrario y Alimentario (IMIDRA), Alcalá de Henares, Madrid (ES)*
16.55-17.10	Defining a set of integrated tools recommended for IPM strategy to control spittlebugs ***Crescenza Dongiovanni***, *Centro di Ricerca, Formazione e Sperimentazione in Agricoltura "Basile Caramia", Locorotondo, Bari (IT)*
17.10-17.20	Q&A
17.20-17.40	**Coffee Break**

SESSION 3	***Control of the bacterium in the host plants*** Chairs: Blanca B. Landa (CSIC-IAS) and Pasquale Saldarelli (CNR-IPSP)
17.40-17.50	Introduction to the session
17.50-18.05	Isolation and characterization of bacteriophages against *Xylella fastidiosa* ***Maria L. Domingo-Calap,*** *Empresa de Transformación Agraria (Tragsa), Delegación de Valencia, - Centro de Protección Vegetal y Biotecnología. Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia (ES)*
18.05-18.20	Exploring endophytic microbial communities to identify potential biocontrol agents against *Xylella fastidiosa* strain 'De Donno' ***Massimiliano Morelli***, *Institute for Sustainable Plant Protection CNR, Bari (IT)*
18.20-18.30	Q&A
18.30-18.45	Screening of natural and eco-friendly compound for their antimicrobial activity against *Xylella fastidiosa* ***Carmine Del Grosso***, *Department of Agricultural, Environmental and Food Sciences University of Molise (IT)*
18.45-19.00	Signals in pathogen and host sensing: free fatty acid and oxylipins ***Valeria Scala***, *CREA, Research Centre for Plant Protection and Certification, Roma (IT)*
19.00-19.10	Q&A
19.10-19.30	**Conclusions: Micheal Maixner, Alberto Fereres and Blanca B. Landa**