



XF-ACTORS Final Meeting

DAY 1 - Monday 26 APRIL 2021 - 14.30-19.20

The conference will open with a discussion on **achieving practical outcomes from genetic and biological studies on the pathogen**. A massive work of sequencing has contributed to a comprehensive understanding of the characteristics of each European outbreak. Scientists will shed new light on the 'fastidious' growth of *Xylella fastidiosa*, trace back probable dates and scenarios of the bacterium's first introduction in Europe, as well as its adaptation in new environments. Also, research was conducted on the impact of abiotic stress (such as extreme temperatures) and on different olive cultivars' responses to infections. The most significant chunk of research addressed areas where *Xylella fastidiosa*'s epidemics are causing substantial economic and biodiversity damage, namely in Southern Italy and, to a lesser extent, Spain. The results of these studies are meaningful from a scientific point of view. Further research is needed to translate those insights into practical tools to counteract *Xylella fastidiosa* induced diseases.

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| 14.30-15.00 | Opening ceremony and Introduction to the event |
| 14.30-15.00 | Maria Saponari , <i>XF-ACTORS Project Coordinator</i> Gisela Quaglia , <i>European Commission, DG AGRI</i> Giuseppe Stancanelli , <i>Animal and Plant Health Unit, European Food Safety Authority</i> |
| SESSION 1 | <i>Achieving practical outcomes from genetic and biological studies</i> |
| | Chairs: Donato Boscia (CNR-IPSP) and Marie-Agnès Jacques (INRAe) |
| 15.00-15.15 | Introduction and adaptation of an emerging pathogen to olive trees in Italy Anne Sicard , <i>UC Berkeley (US)</i> and <i>PHIM Plant Health Institute, Montpellier (FR)</i> |
| 15.15-15.30 | Probable dates and scenario of introduction of <i>Xylella fastidiosa</i> subsp. <i>multiplex</i> in France Enora Dupas , <i>INRAe, Beaucauzé (FR)</i> |
| 15.30-15.40 | Q&A |
| 15.40-15.55 | Extreme temperature differentially affects growth and survival of <i>Xylella fastidiosa</i> strains Miguel Román-Écija , <i>Instituto de Agricultura Sostenible (IAS), Consejo Superior de Investigaciones Científicas (CSIC), Córdoba (ES)</i> |
| 15.55-16.10 | Investigation of the metabolic network of <i>Xylella fastidiosa</i> responsible of its fastidious growth Caroline Baroukh , <i>LIPME Université de Toulouse INRAE CNRS, Castanet-Tolosan (FR)</i> |
| 16.10-16.20 | Q&A |
| 16.20-16.35 | Unravelling distinctive features of <i>Xylella fastidiosa</i> strain 'De Donno' Giusy D'Attoma , <i>Istituto per la Protezione Sostenibile delle Piante, CNR, Bari (IT)</i> |



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| 16.35-16.50 | Studies on Diffusible Signal Factors molecules in <i>Xylella fastidiosa</i> strain De Donno Danilo Vona , Dipartimento di Chimica, Università degli Studi di Bari Aldo Moro, Bari (IT) |
| 16.50-17.00 | Q&A |
| 17.00-17.30 | Coffee Break |
| 17.30-17.45 | Artificial inoculation of <i>Xylella fastidiosa</i> subsp. <i>pauca</i> strains in olive plants; an overview of greenhouse experiments Helvecio Della Coletta-Filho , Centro APTA Citros Sylvio Moreira, Instituto Agronômico, Cordeirópolis (BR) |
| 17.45-18.00 | <i>Xylella fastidiosa</i> subsp. <i>pauca</i> and <i>multiplex</i> elicit differential responses in a susceptible olive cultivar Annalisa Giampetruzzi , Istituto per la Protezione Sostenibile delle Piante, CNR, Bari (IT) |
| 18.00-18.10 | Q&A |
| 18.10-18.25 | Estimating prevalence and population size of <i>Xylella fastidiosa</i> in olive cultivars with differential phenotypic responses to the bacterial infection Maria Saponari , Institute for Sustainable Plant Protection CNR, Bari (IT) |
| 18.25-18.40 | <i>Xylella fastidiosa</i> and olive interactions: the key role of the plant cell wall Pasquale Saldarelli , Institute for Sustainable Plant Protection CNR, Bari (IT) |
| 18.40-18.50 | Q&A |
| 18.50-19.20 | Conclusions: Marie-Agnès Jacques, Donato Boscia and Pasquale Saldarelli |