



3rd European
conference on
**Xylella
fastidiosa**
2021



Xylella Fastidiosa Active Containment Through a
multidisciplinary-Oriented Research Strategy

**3rd European conference on *Xylella fastidiosa*
and XF-ACTORS final meeting**

*Building knowledge,
protecting plant health*

26-30 April 2021

Programme





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XF-ACTORS Final meeting

DAY 1 - Monday 26 APRIL 2021 - 14.30-19.20 CEST

14.30-15.00	Opening ceremony and introduction to the event
14.30-15.00	<p>Maria Saponari, <i>XF-ACTORS Project Coordinator</i> Gisela Quaglia, <i>European Commission, DG AGRI</i> Rosalinda Scalia, <i>European Commission, DG SANTE</i> Giuseppe Stancanelli, <i>Animal and Plant Health Unit, European Food Safety Authority</i></p>
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 (ES)</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>
16.35-16.50	Studies on Diffusible Signal Factors molecules in <i>Xylella fastidiosa</i> strain De Donno Danilo Vona , <i>Dipartimento di Chimica, Università degli Studi di Bari Aldo Moro, Bari (IT)</i>
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 , <i>Centro APTA Citros Sylvio Moreira, Instituto Agronômico, Cordeirópolis (BR)</i>
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 Giampetrucci , <i>Istituto per la Protezione Sostenibile delle Piante, CNR, Bari (IT)</i>
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 , <i>Institute for Sustainable Plant Protection CNR, Bari (IT)</i>

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

DAY 2 – Tuesday 27 APRIL 2021 - 14.30-19.30 CEST

SESSION 2 <i>Vectors and control strategies</i>	
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 <i>Xylella fastidiosa</i> 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 <i>Xylella fastidiosa</i> 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 <i>Xylella fastidiosa</i> subsp. <i>pauca</i> 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 , Centre de Biologie pour la Gestion des Populations (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 <i>Xylella fastidiosa</i> subsp. <i>pauca</i> ST53 by <i>Philaenus spumarius</i> (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 <i>Philaenus spumarius</i> : 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 <i>Control of the bacterium in the host plants</i>	
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 <i>Xylella fastidiosa</i> María L. Domingo-Calap , <i>Empresa de Transformación Agraria (Tragsa), Delegación de Valencia, - Centro de Protección Vegetal y Biotecnología. Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia (ES)</i>
18.05-18.20	Exploring endophytic microbial communities to identify potential biocontrol agents against <i>Xylella fastidiosa</i> strain 'De Donno' Massimiliano Morelli , <i>Institute for Sustainable Plant Protection CNR, Bari (IT)</i>
18.20-18.30	Q&A
18.30-18.45	Screening of natural and eco-friendly compound for their antimicrobial activity against <i>Xylella fastidiosa</i> Carmine Del Grosso , <i>Department of Agricultural, Environmental and Food Sciences University of Molise (IT)</i>
18.45-19.00	Signals in pathogen and host sensing: free fatty acid and oxylipins Valeria Scala , <i>CREA, Research Centre for Plant Protection and Certification, Roma (IT)</i>
19.00-19.10	Q&A
19.10-19.30	Conclusions: Micheal Maixner, Alberto Fereres and Blanca B. Landa

DAY 3 – Wednesday 28 APRIL 2021 - 14.30-19.00 CEST

SESSION 4 <i>Implementation and harmonization of diagnostic protocols, surveillance and modelling</i>	
Chairs: Pieter Beck (JRC) and Françoise Petter (EPPO)	
14.30-14.40	Introduction to the session
14.40-14.55	Using hyperspectral imagery and a multi-stage machine learning algorithm to distinguish infection symptoms caused by two xylem-limited pathogens Tomás Poblete , <i>School of Agriculture and Food (SAF-FVAS) and Faculty of Engineering and Information Technology (IE-FEIT), University of Melbourne (AU)</i>
14.55-15.10	Integrating an epidemic spread model with remote sensing for <i>Xylella fastidiosa</i> detection Carlos Camino , <i>European Commission (EC), Joint Research Centre (JRC), Ispra (IT)</i>
15.10-15.20	Q&A
15.20-15.35	Variations in winter temperatures over decades: the underside of a French <i>Xylella fastidiosa</i> story Samuel Soubeyrand , <i>INRAE, BioSP, Avignon (FR)</i>
15.35-15.50	Improving early detection surveillance for <i>Xylella fastidiosa</i> in Apulia Alexander Mastin , <i>University of Salford, Salford (UK)</i>
15.50-16.00	Q&A
16.00-16.15	Effects of dispersal barriers in the demarcated area in Alicante, Spain, for <i>Xylella fastidiosa</i> . A non-stationary modelling approach. Martina Cendoya , <i>Instituto Valenciano de Investigaciones Agrarias, Valencia (ES)</i>

16.15-16.30	Developing a spatial epidemiological model to estimate <i>Xylella fastidiosa</i> dispersal and spread Daniel S. Chapman , <i>University of Stirling, Stirling (UK)</i>
16.30-16.40	Q&A
16.40-17.00	Coffee break
17.00-17.15	Spatial and temporal evolution of <i>Xylella fastidiosa</i> in the canopy of Leccino and Ogliarola olive cvs in Apulia (Italy) Anna Maria D'Onghia , <i>CIHEAM – Mediterranean Agronomic Institute of Bari (IT)</i>
17.15-17.30	Interlaboratory comparison of molecular methods for the detection of <i>Xylella fastidiosa</i> in plant and insects Giuliana Loconsole , <i>Institute for Sustainable Plant Protection, CNR, Bari (IT)</i>
17.30-17.40	Q&A
17.40-17.55	How did XF-ACTORS contribute to the work of NPPOs Françoise Petter , <i>European and Mediterranean Plant Protection Organization (EPPO), Paris (FR)</i>
17.55-18.10	Scientific contributions of XF-ACTORS to the EU plant health regime Antonio Vicent , <i>Instituto Valenciano de Investigaciones Agrarias, Valencia (ES)</i>
18.10-18.25	<i>Xylella fastidiosa</i> , the social and media impact in plant health management Angelo Di Mambro , <i>Informatore Agrario (IT)</i>
18.25-18.40	Q&A
18.40-19.00	Closure of the XF-ACTORS final meeting



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3rd European conference on *Xylella fastidiosa*

*Building knowledge,
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DAY 4 – Thursday 29 APRIL 2021 - 14.00-19.40 CEST

Opening ceremony and Introduction to the event	
14.00–14.15	Conference opening Bernhard Url , Executive Director, European Food Safety Authority
14.15–14.30	Introduction to the conference Giuseppe Stancanelli , Animal and Plant Health Unit, European Food Safety Authority
SESSION 1 <i>Advances on pathogen biology, ecology and genetics</i>	
Chairs: Ralf Koebnik (Plant Health Institute of Montpellier (PHIM), Institut de Recherche pour le Développement (IRD) (FR)) and Massimiliano Morelli (Institute for Sustainable Plant Protection (IPSP), National Research Council of Italy (IT))	
14.30–14.45	Aggressiveness of Spanish isolates of <i>Xylella fastidiosa</i> to almond cultivars Aina Baró , University of Girona (ES)
14.45–15.00	Assessing strain-level variation among type I restriction-modification systems and methylation patterns in <i>Xylella fastidiosa</i> Michael O’Leary , US Department of Agriculture, Agricultural Research Service (US)
15.00–15.05	A model & image based investigation of <i>Xylella fastidiosa</i> within host dynamics - <i>Young researchers’ initiative</i> Nancy Walker , Faculty of Engineering and Physical Sciences, University of Southampton (UK)
15.05–15.20	Q&A
15.20–15.25	Short break
15.25–15.40	Distribution dynamics of <i>Xylella fastidiosa</i> within almond tree organs through different physiological stages Ofir Bahar , Agricultural Research Organization – Volcani Center (IL)
15.40–15.55	Genome rearrangements of <i>Xylella fastidiosa</i> strains in US and updates on <i>X. taiwanensis</i> Jianchi Chen , US Department of Agriculture, Agricultural Research Service (US)
15.55–16.00	Application of phage display: development of tools to fight against <i>Xylella fastidiosa</i> - <i>Young researchers’ initiative</i> Favelin Nicolas , Génie Enzymatique et Cellulaire (CNRS UMR 7025), Université de Technologie de Compiègne (FR)
16.00–16.15	Q&A
16.15–16.30	The Arabidopsis immune receptor EFR confers immunity against <i>Xylella fastidiosa</i> Silke Robatzek , Ludwig Maximilians Universität München (DE)
16.30–16.45	<i>Xylella fastidiosa</i> biogeography and evolution: emerging insights and observations Rodrigo Almeida , University of Berkeley (US)

16.45-16.50	Csp1, a cold-shock protein homolog in <i>Xylella fastidiosa</i> is involved in stress response and biofilm formation - <u>Young researchers' initiative</u> Wei Wei , US Department of Agriculture, Agricultural Research Service (US)
16.50-17.05	Q&A
17.05-17.20	Coffee break

SESSION 2 *Understanding vectors biology and pathogen transmission*

Chairs: **Astrid Cruaud** (French National Institute for Agriculture, Food, and Environment (INRAE) (FR)) and **Saskia Hogenhout** (John Innes Centre (UK))

17.20-17.35	The association of Salicaceae and Aphrophoridae: a potential <i>Xylella fastidiosa</i> -based threatening pathosystem for European temperate areas Noemi Casarin , Université catholique de Louvain (BE)
17.35-17.50	Accounting for the climate tolerances of <i>Philaenus spumarius</i> is crucial when assessing <i>Xylella fastidiosa</i> -related disease outbreaks risk in Europe Martin Godefroid , Instituto de Ciencias Agrarias, Consejo Superior de Investigaciones Científicas (ICA-CSIC) (ES)
17.50-18.00	Q&A
18.00-18.05	Short break
18.05-18.20	Spread of <i>Xylella fastidiosa</i> by the glassy-winged sharpshooter in the San Joaquin Valley of California Mark Sisterson , US Department of Agriculture, Agricultural Research Service (US)
18.20-18.35	Understanding the epidemiological role of the vectors of <i>Xylella fastidiosa</i> in the Balearic Islands (Spain) by long-term macrocosm and microcosm studies Miguel Ángel Miranda , University of the Balearic Islands (ES)
18.35-18.45	Q&A
18.45-18.50	Short break
18.50-19.05	Modelling the population dynamics of <i>Philaenus spumarius</i> : a fully mechanistic approach Gianni Gilioli , Department of Molecular and Translational Medicine (DMMT), University of Brescia (IT)
19.05-19.10	Transmission of <i>Xylella fastidiosa</i> subsp. <i>pauca</i> to olive trees by sharpshooters and spittlebugs common in Brazilian orchards - <u>Young researchers' initiative</u> Joyce Adriana Froza , College of Agriculture "Luiz de Queiroz", University of São Paulo (BR)
19.10-19.15	DNA barcoding and assessment of the genetic diversity of the <i>Xylella fastidiosa</i> vectors in the Balearic Islands - <u>Young researchers' initiative</u> Sofía Delgado-Serra , University of the Balearic Islands (ES)
19.15-19.20	Microbial assemblages within <i>Philaenus spumarius</i> and their possible role on insect's reproduction - <u>Young researchers' initiative</u> Cristina Cameirão , Centro de Investigação de Montanha (CIMO), Instituto Politécnico de Bragança (PT)
19.20-19.40	Q&A
	End of first day

DAY 5 – Friday 30 APRIL 2021 – 09:00-18.15 CEST

SESSION 3	
From epidemiological modelling to surveillance and early detection	
Chairs: Maria Bergsma-Vlami (Netherlands Food and Consumer Product Safety Authority (NVWA) (NL)) and Stephen Parnell (University of Salford (UK))	
09.00-09.15	Progress and achievements on the early detection of <i>Xylella fastidiosa</i> infection and symptom development with hyperspectral and thermal remote sensing imagery Pablo J. Zarco-Tejada , <i>University of Melbourne (AU)</i>
09.15-09.30	The EU Reference Laboratory for pests of plants on bacteria and a proficiency test for molecular detection of <i>Xylella fastidiosa</i> Tanja Dreo , <i>National Institute of Biology (SI)</i>
09.30-09.35	Inferring the potential spread of <i>Xylella fastidiosa</i> in Great Britain - <u>Young researchers' initiative</u> Flavia Occhibove , <i>UK Centre for Ecology & Hydrology (UK)</i>
09.40-09.55	Q&A
09.55-10.00	Short break
10.00-10.15	Assessing genome-wide diversity in <i>Xylella fastidiosa</i> through target enrichment via hybridization-based capture from natural host plant and insect samples María del Pilar Velasco-Amo , <i>Institute for Sustainable Agriculture, Spanish National Research Council (IAS-CSIC) (ES)</i>
10.15-10.30	Estimating the rate of spread of Olive Quick Decline Syndrome, caused by <i>Xylella fastidiosa</i> subsp. <i>pauca</i> in Puglia Lia Hemerik , <i>Wageningen University (NL)</i>
10.30-10.35	Risk of establishment of Pierce's disease in main wine-producer regions worldwide - <u>Young researchers' initiative</u> Alex Giménez-Romero , <i>Instituto de Física Interdisciplinar y Sistemas Complejos IFISC (CSIC-UIB), Campus UIB (ES)</i>
10.35-10.50	Q&A
10.50-11.10	Coffee break
11.10-11.25	Guidelines for risk-based survey design for <i>Xylella fastidiosa</i> Sybrein Vos , <i>Animal and Plant Health Unit, European Food Safety Authority</i>
11.25-11.40	The role of trust in the UK live plant trade: impacts on biosecurity behaviours and the management of <i>Xylella fastidiosa</i> risk Chris Pollard , <i>Forest Research (UK)</i>
11.40-11.45	Media and scientific literature monitoring of <i>Xylella fastidiosa</i> using the MEDISYS platform - <u>Young researchers' initiative</u> Caterina Campese , <i>Animal and Plant Health Unit, European Food Safety Authority</i>
11.45-12.00	Q&A
12.00-12.15	Announcement of Winner of social media poster competition announced by Sara Tramontini (<i>Animal and Plant Health Unit, European Food Safety Authority</i>)
12.15-14.00	Lunch break

SESSION 4 <i>Towards sustainable management strategies</i>	
Chairs: Alessandra Alves de Souza (Centro de Citricultura "Sylvio Moreira", Instituto Agronomico (IAC) (BR)) and Antonio Vicent (Instituto Valenciano de Investigaciones Agrarias (ES))	
14.00-14.15	Searching for olives displaying resistance traits to <i>Xylella fastidiosa</i> subsp. <i>pauca</i> ST53: experimental evidence and challenges Donato Boscia , Institute for Sustainable Plant Protection (IPSP), National Research Council of Italy (IT)
14.15-14.30	Evaluation of alternative compounds against <i>Xylella fastidiosa</i> subsp. <i>pauca</i> in olive groves of the Salento peninsula of Apulia Giuseppe Lima , Department of Agricultural, Environmental and Food Sciences, University of Molise (IT)
14.30-14.40	Q&A
14.40-14.45	Short break
14.45-15.00	BIOVEXO, a new BBI-JU-H2020 project on biocontrol of <i>Xylella</i> and its vector in olive trees for integrated pest management Stéphane Compant , AIT Austrian Institute of Technology, Center for Health and Bioresources, Bioresources Unit (AT)
15.00-15.05	Culture and metagenomic approaches for the identification of olive xylem microbial communities as a biological control tool to cope against <i>Xylella fastidiosa</i> infection - <u>Young researchers' initiative</u> Manuel Anguita-Maeso , Institute for Sustainable Agriculture, Spanish National Research Council (ES)
15.05-15.10	Screening of a novel biological control agent targeting the phytopathogen <i>Xylella fastidiosa</i> - <u>Young researchers' initiative</u> Marwa Mourou , Dipartimento di Scienze Agrarie e Forestali (DAFNE), Università degli Studi della Tuscia (IT)
15.10-15.15	Peptides of synthetic and microbial origin with antimicrobial and antibiofilm activity against <i>Xylella fastidiosa</i> - <u>Young researchers' initiative</u> Luis Alejandro Moll , Institute of Food and Agricultural Technology-CIDSAV-XaRTA, University of Girona (ES)
15.15-15.35	Q&A
15.35-16.00	Coffee break
SESSION 5 <i>What priorities for research on Xylella fastidiosa? Science support to stakeholders needs</i>	
Chairs: Baldissera Giovani (Euphresco) and Giuseppe Stancanelli (Animal and Plant Health Unit, European Food Safety Authority)	
16.00-16.10	<i>Xylella fastidiosa</i> knowledge gaps and research priorities: contributions from the European <i>X. fastidiosa</i> conferences Giuseppe Stancanelli , Animal and Plant Health Unit, European Food Safety Authority
16.10-16.20	New research priorities on <i>Xylella fastidiosa</i> from EU farmers perspective Anna Rufolo , COPA-COGECA
16.20-16.30	New research priorities on <i>Xylella fastidiosa</i> from EU nurserymen perspective Josep M. Pagès , European Nurserystock Association (ENA)
16.30-16.40	What research needs in the outbreak areas? A nursery perspective for olive and fruit trees propagation Luigi Catalano , CIVI-Italia (IT)
16.40-16.45	Short break



16.45-16.55	What research needs in the outbreak areas? A risk manager perspective Vicente Dalmau Sorli , <i>Generalitat Valenciana (ES)</i>
16.55-17.05	The new legal framework of the European Union on <i>Xylella fastidiosa</i> and future research priorities Rosalinda Scalia , <i>European Commission DG SANTE</i>
17.05-17.40	Discussion on stakeholders research needs with the Chairs of the 3 rd European conference on <i>Xylella fastidiosa</i>
17.40-17.45	Short break
17.45-18.00	Horizon Europe and Plant Health – opportunities for <i>Xylella fastidiosa</i> R&I Gisela Quaglia , <i>European Commission DG AGRI</i>
18.00-18.15	Conclusions and closure of the 3 rd European conference on <i>Xylella fastidiosa</i> Maria Saponari , <i>Institute for Sustainable Plant Protection (IPSP), National Research Council of Italy (IT) - Coordinator of the H2020 XF-ACTORS project</i> Claude Bragard , <i>Université catholique de Louvain - Chair of EFSA Scientific Panel on Plant Health</i>



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