

# European Research on Emerging Plant Diseases

## PROGRAM

### 2nd Joint Annual Meeting

23-26 October 2018

Instituto Valenciano de Investigaciones Agrarias (IVIA)  
CV-315, Km. 10,7 - 46113 Moncada (Valencia), Spain

**ivia**  
Instituto Valenciano  
de Investigaciones Agrarias

 **GENERALITAT  
VALENCIANA**  
Conselleria d'Educació,  
Investigació, Cultura i Esport



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement Nos 635646 and 727987



# 2nd Joint Annual Meeting

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We are pleased to introduce the program of the Annual Meeting of the POnTE and XF-ACTORS Projects funded by the European Union's Horizon 2020 research and innovation programme. The Event will take place in Valencia (Spain) from 23 to 26 October 2018.

The Meeting will be dedicated to the presentation of the latest scientific results gathered within the framework of both European H2020 projects targetting emerging plant diseases.

The program consists of three main sessions with the following topics:

- **PATHOGENS OF FORESTRY**
- **CANDIDATUS LIBERIBACTER SOLANACEARUM**
- **XYLELLA FASTIDIOSA**

- *Xylella fastidiosa* - Vectors
- *Xylella fastidiosa* - Sampling, detection and remote sensing
- *Xylella fastidiosa* - Control of *Xylella fastidiosa*
- *Xylella fastidiosa* - Modelling and risk assessment
- *Xylella fastidiosa* - Insights into the genetics of *Xylella fastidiosa* and host-pathogen interactions
- *Xylella fastidiosa* - Plant health and risk management.

Apart from the aforementioned sessions, two parallel sessions will be organized - *Workshop on Risk modelling studies in POnTE and XF-ACTORS to assist risk management in the EU and Quality assurance and VSPP: a proposed scheme for the certification of plant propagating materials*. The active participation of plant health inspectors, nurserymen and stakeholders is foreseen for the success of both workshops.

In addition, an open discussion will be dedicated to the topic "Control of *X. fastidiosa* vectors", one of the key aspects for the management of *X. fastidiosa*.

We finally want to thank all the participants and we are looking forward to meeting you in Valencia.

Welcome!



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# 1st day | October 23, 2018

9.00-9.30	REGISTRATION OF THE CONSORTIUM MEMBERS
9.30-10.00	WELCOME ADDRESS (Coordinators of the Projects, Local Organizers, Local Authorities)
10.00-10.30	2nd Reporting of the project POnTE
10.30-11.00	Coffee break

## 1st SESSION: PATHOGENS OF FORESTRY

11:00-11:15	Research progress – an introduction (A. Perez-Sierra, Forestry Research Agency, UK)
11:15-11:35	Identification, diversity and population structure of <i>Phytophthora</i> infecting forestry in Europe (B. Landa, CSIC, Spain)
11.35-12:05	Phytophthora-free plant production and update on <i>Hymenoscyphus fraxineus</i> (T. Cech, BFW, Austria)
12.05-12.35	Life cycle of the invasive ash dieback pathogen <i>Hymnoscyphus fraxineus</i> in the Balkan region (N. Keča, FA, Serbia)
12.35-13:05	Hot-water treatment of European ash ( <i>Fraxinus excelsior</i> ) fruits: old-fashioned but potentially effective against <i>Hymenoscyphus fraxineus</i> (S. McCartan, FORESTRY RES AG, UK)

## 13.15-14.30 LUNCH BREAK

14:30-14.50	Understanding <i>Hymenoscyphus fraxineus</i> infection on ash fruits (S. van der Linde, FORESTRY RES AG, UK)
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14:50-15:10

Update of *Hymenoscyphus fraxineus* on different *Fraxinus* spp. and non-*Fraxinus* species (A. Perez-Sierra, FORESTRY RES AG, UK)

15:10-15:30

An update on the genetic population structure of the invasive ash dieback pathogen *Hymenoscyphus fraxineus* (B. Landa, CSIC, Spain)

15:30-15:50

Climatic suitability of *Hymenoscyphus fraxineus* in Europe (J.A. Navas-Cortes, CSIC, Spain)

## 2nd SESSION: *CANDIDATUS LIBERIBACTER SOLANACEARUM*

16.00-16.20

Research progress on '*Candidatus Liberibacter solanacearum*' and its vectors – an introduction (Coordinator: A. Nissinen, LUKE, Finland)

16.20-16.50

Coffee break

16.50-17.10

How many haplotypes? Detection Of "*Candidatus Liberibacter solanacearum*" in weed species and novel psyllid hosts associated with carrot fields in Scotland and suction trap samples. (J. Sumner-Kalkun, SASA, UK)

17.10-17.30

Effect Of temperature, *Trioza apicalis* feeding and '*Candidatus Liberibacter solanacearum*' infection on the carrot growth (A. Nissinen, LUKE, Finland)

17.30-17.50

Comparison, characterization and validation of different DNA extraction procedures for the detection of '*Candidatus Liberibacter solanacearum*' on plant hosts and insect vectors (F. Poliakoff, ANSES, France)

17.50-18.00

Discussion on the overall progress of the research tasks on '*Candidatus Liberibacter solanacearum*' and its vectors

17.50-18.00

**Management Board meeting of POnTE**  
(reserved for the WP Leaders)

## 2nd day | October 24, 2018

9.00-9.20	Robotic solution to detect asymptomatic plants infected by ' <i>Candidatus Liberibacter solanacearum</i> ' in horticultural crops using multispectral computer vision (J. Blasco, IVIA, Spain)
9.20-9.40	Assessing the potential economic impact of ' <i>Candidatus Liberibacter solanacearum</i> ' in European carrots (K. Schneider, WU, The Netherlands)
9.40-10.00	Second year of monitoring of ' <i>Candidatus Liberibacter solanacearum</i> ' in carrot field trials (E. Marco-Noales, IVIA, Spain)
10.00-10.20	Treatment programs designed in Spain to reduce the incidence of <i>Bactericera</i> Sp. on carrot fields: results preview (M.J. Zanon, CERTIS EUR, Spain)
10.20-10.30	Brief overview on the affected plots to be visited during the field trip (M.J. Zanon, CERTIS EUR, Spain)
10.30-11.00	<ul style="list-style-type: none"><li>- Administrative and financial aspects: deadlines and reporting for both projects (L. Savino, CNR-IPSP, Bari)</li><li>- General Assembly discussion</li></ul>
11.00-11.30	Coffee break

### 3rd SESSION: *Xylella fastidiosa*

11.30-12.00	Overview of the activities and results on <i>Xylella fastidiosa</i> within POnTE and XF-ACTORS (M. Saponari, D. Boscia, CNR-IPSP, Italy)
12.00-12.15	Collaborations with the project CURE-XF (M. El Moujabber, CIHEAM, Italy) and with the COST-ACTION EuroXanth (J. Cubero, INIA, Spain)
12.15-12.30	XF-ACTORS Digital Research Object Portal (DROP) (B. Giovani, EPPO, France)

12.30-12.45

Update on the pest surveillance guidelines (S. Vos, EFSA, Italy)

3rd SESSION: *Xylella fastidiosa* - Vectors (Moderator: D. Bosco)

12.45-13.00

Preliminary results on the transmission characteristics of *Xylella fastidiosa* subsp. *pauca* (ST53) by *Philaenus spumarius* and *Cicadella viridis* (N. Bodino, UNITO, Italy)

13.00-13.15

Understanding *Philaenus spumarius* behavior and hosts preference for predicting *Xylella fastidiosa* spread under Central-European conditions (A. Markheiser, JKI, Germany)

13.15-13.30

Presence, seasonal abundance and molecular studies on genetic and bacterial diversity of insect vectors of *Xylella fastidiosa* in olive orchards from Greece (P. Milonas, BPI, Greece)

13.30-14.30 LUNCH BREAK

14.30-14.45

Continuous indoor rearing of *Philaenus spumarius*, the main European vector of *Xylella fastidiosa* (A. Fereres, CSIC, Spain)

14.45-15.00

Flight behaviour and patterns of directional movement on *Philaenus spumarius* (A. Fereres, CSIC, Spain)

15.00-15.15

Vibrational communication and mating behavior of *Philaenus spumarius* (Hemiptera: Aphrophoridae) (S. Avosani, EMACH, Italy)

15.15-15.30

Evaluation of detection methods on insect vector *Philaenus spumarius* by intralaboratory and interlaboratory comparison tests (F. Poliakoff, ANSES, France)

15.30-16.00

- A lattice model to shape *Philaenus spumarius* vector and *Xylella fastidiosa pauca* ST53 transmission management strategies
- Main Aphrophoridae (Hemiptera) vectors of *Xylella fastidiosa pauca* ST53 juvenile quantitative sampling
- Effectiveness of field chemical control actions against *Philaenus spumarius* and *Neophilaenus campestris* (Hemiptera:Aphrophoridae) adult vectors of *Xylella fastidiosa pauca* ST53
- A *Zelus Renardii* Italian journey (F. Porcelli, UNIBA, Italy)

16.00-16.15

- Can fungal endophytes present in *Coleostephus myconis* be used to manipulate the distribution of *Philaenus spumarius*?
- Potential vectors of *Xylella fastidiosa* in Portugal vineyards
- Aphrophoridae dynamic and feeding preference for plants in natural ground cover in olive groves from Trás-Os-Montes
- Potential natural biocontrol agents of Aphrophoridae eggs (J. Pereira, IPB, Portugal)

16.15-16.45

Coffee break

16.45-17.15

- Attempts to reduce the spread of *Xylella fastidiosa* in olives using kaolin applications
- Evaluation of sticky traps for monitoring the population of spittlebugs in Southern Italy
- Soil management techniques for the control of juvenile populations of spittlebugs in olive groves (E. Dongiovanni, CRSFA, Italy)

17.15 -18.15

**Insect vector control:** Open discussion on implications and further research programs

18.15-19.00

Wrap up by A. Fereres, M. Maixner, F. Porcelli

21.00

Social dinner



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## 3rd day | October 25, 2018

### 3rd SESSION: *Xylella fastidiosa* - Sampling, detection and remote sensing (Moderators: F. Poliakoff and A.M. D'Onghia)

9.00-9.10

Remotely-operated field robot to detect olive trees infected with *Xylella fastidiosa* using proximal sensing (J. Blasco, IVIA, Spain)

9.10-9.20

Development of XYLAPPEU\_2.1.2 for the harmonization of monitoring data process of *Xylella fastidiosa* from field to laboratory (A.M. D'onghia, CIHEAM, Italy)

9.20-9.30

Evaluation of a rapid diagnostic detection assay of *Xylella fastidiosa* by isothermal amplify Rp® (S. Cesbron, INRA, France)

9.30-9.40

Implementation of sampling procedures for processing composite samples from nursery or consignments (G. Loconsole, UNIBA, Italy)

9.40-10.00

Obtention of specific monoclonal antibodies and antisera against *Xylella fastidiosa* and their use for detection and diagnosis (E. Marco-Noales, IVIA, Spain)

10.00-10.15

EPPO diagnostic protocol on *Xylella fastidiosa*, contribution of XF-ACTORS & PONTE (F. Petter, EPPO, France)

10.15-10.30

Wrap up on the diagnosis and detection of *Xylella fastidiosa* (F. Poliakoff and A. D'Onghia)

10.30-10.40

Remote sensing applications: ongoing and future programs (P. Beck, JRC, Belgium)

10.40-11.00

Coffee break



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3rd SESSION: *Xylella fastidiosa* - Control of *Xylella fastidiosa*  
(Moderators: B.B. Landa and P. Saldarelli)

11.00-11.10

Screening olive cultivars for resistance to *Xylella fastidiosa*  
(M. Saponari, CNR-IPSP, Italy)

11.10-11.20

Further data on olive susceptibility/resistance to *Xylella fastidiosa*  
(P. Saldarelli, CNR-IPSP, Italy)

11.20-11.30

Synthesis of cis-2-unsaturated fatty acids for biochemical control of  
biofilm production in *Xylella fastidiosa* (D. Vona, UNIBA, Italy)

11.30-11.40

Efficacy of synthetic functional peptides against subspecies of  
*Xylella fastidiosa*. In vitro and in planta studies  
(E. Montesinos, UDG, Spain)

3rd SESSION: *Xylella fastidiosa* - Modelling and risk assessment  
(Moderators: A. Oude Lansink and A. Vicent)

11.40-11.50

A 3-year study on spatial and temporal dynamics of OQDS at plot  
level in Puglia (J. A. Navas, CSIC, Spain)

11.50-12.00

Estimating the dispersal and spread of *Xylella fastidiosa* in Puglia  
(D. Chapman, UKRI, UK)

12.00-12.10

Optimising surveillance for early detection of new *Xylella fastidiosa*  
outbreaks in Apulia province, Italy (A. Mastin, USAL, UK)

12.10-12.20

Spread models applied to *Xylella fastidiosa* in olives in Europe  
(M. Cendoya, IVIA, Spain)

Spatial Bayesian modelling applied to the surveys of *Xylella fastidiosa*  
in the demarcated area in Alicante (Spain) (M. Cendoya, IVIA, Spain)

12.20-12.30

Identifying lookouts for epidemio-surveillance: application to the  
emergence of *Xylella fastidiosa* in France (D. Martinetti, INRA, France)



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12.30-12.40

Assessing the potential economic impact of *Xylella fastidiosa* in European olives: a scenario-based dynamic modeling approach (K. Schneider, WU, The Netherlands)

12.40-12.50

Stakeholder perception of *Xylella fastidiosa* (Xf) disease risk assessment: first results from Puglia (IT), Chania (GR), Valencia and Andalucía (ES) (G. Ladisa, CIHEAM, Italy)

12.50-13.15

Discussion modelling and introduction to the World Cafè discussion by A. Vicent and F. Petter

13.15-14.30

LUNCH BREAK

14.30-15.00

Brief presentations (10 min each) by the Representatives of the Plant Health Authorities of France, Italy and Spain on the surveillance and application of the phytosanitary measures

15.00-15.15

Update of the pest risk assessment (A. Maiorano, EFSA, Italy)

15.30-17.30

**1st Parallel Session** (participation is limited to invited risk managers and project members)

**Workshop on Risk modelling studies in POnTE and XF-ACTORS to assist risk management in the EU:** Dedicated discussion between risk managers and modellers

15.30 - 17.30

**2nd Parallel Session (open session)**

Quality assurance and VSPP: a proposed scheme for the certification of plant propagating materials (C. Picard, EPPO, France)



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3rd SESSION: *Xylella fastidiosa* -Insights into the genetics of *Xylella fastidiosa* and host-pathogen interactions  
(Moderator: M.A. Jacques)

15.30-15.40

Genomic assessment of *Xylella fastidiosa* isolates recovered in the Balearic Islands and mainland Spain (A. Giampetruzzi, UNIBA, Italy; M. P. Velasco-Amo, CSIC, Spain)

15.40-15.50

Identifying *Xylella fastidiosa* host adaptation candidate genes: the case of *X. fastidiosa* subsp. *pauca* isolates and olive trees in Italy (A. Sicard, UC Berkeley, USA; INRA; France)

15.50-16.00

Update on *Xylella fastidiosa* situation in Costa Rica: strain diversity, geographic location and hosts (C. Chacon Diaz, UCR, Costa Rica)

16.10-16.20

A field study on leaf ionome and calcium-related gene expression profiles in *Xylella fastidiosa*-infected olive cultivars (P. Saldarelli, CNR-IPSP, Italy)

16.20-16.30

Lipids investigation in *Xylella fastidiosa* subsp. *pauca* strain De Donno lifestyle (V. Scala, CREA, Italy)

16.30-16.40

The microbiome of olive tree xylem: Can they be the key to control *Xylella fastidiosa*? (P. Baptista, IPB, Portugal)

16.40-17.00

Coffee break

17.00-17.15

Characterization of *Methylobacterium* spp. population, endophytes of olive sapwood  
Genomic characterization of *Pseudophaemoniella* species occurring in the sapwood of healthy and diseased olive trees affected by quick decline syndrome (I. Antelmi, UNIBA, Italy)

17.15-17.30

Discussion and wrap up on genetic, biology and control of *Xylella fastidiosa* in the hosts by M.A. Jacques and B.B. Landa



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3rd SESSION: *Xylella fastidiosa* - Plant health and risk management  
(Moderator: D. Boscia)

17.30-18.30

- Open session on **Risk modelling studies in POnTE and XF-ACTORS to assist risk management in the EU**

Reporting from the workshop and discussion on bridging the gaps between risk management and risk modelling

18.30-18.45

Presentation of the situation in Alicante (V. Dalmau, Servicio de Sanidad Vegetal, Valencia, Spain)

18.45-19.00

Closing discussion

19.00-20.00

**Management Board meeting of XF-ACTORS**  
(reserved for the WP Leaders)

## 4th day | October 26, 2018 (optional)

### Field visit

1st Tour  
ALL DAY LONG

Visit to the *Xylella* outbreak area in Alicante

2nd Tour  
ALL DAY LONG

Visit to plots affected by *CaLsol* (close to Valencia)

### Organizing Committee

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Valencia, Spain

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Ester Marco  
Francisco Beitia  
Jose Blasco  
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