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XF-ACTORS

“*Xylella Fastidiosa* Active Containment Through a multidisciplinary-Oriented Research Strategy”

What is XF-ACTORS?

The first international research project in Europe entirely devoted to research on the bacterium *Xylella fastidiosa*.

Who participates?

XF-ACTORS is composed by a large international consortium, involving 29 Partners (research institutions, international organizations, universities, etc.).

The consortium includes all the countries where the pathogen is established and relevant research programs have been already undertaken.


Other countries where there is a risk of introduction are also involved.

Objectives


 *Prevention*

 *Scientific progress*

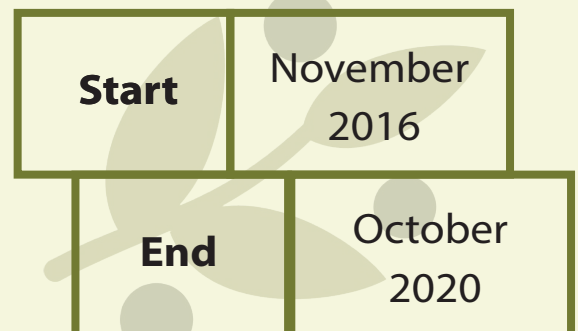
 *Knowledge sharing*

 *Minimize the impact*

 *Risk assessment*

 *Communication*

4-Year lifetime





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The domains of research

XF-ACTORS research activity will cover different topics related to *Xylella fastidiosa* bacterium:

- 🌿 Biology, genetics and pathogenicity of XF
- 🌿 Ecology and control of XF vectors
- 🌿 Surveillance programs: tools for early detection and remote sensing approaches
- 🌿 Eco-epidemiology and risk assessment of XF disease
- 🌿 Innovative and sustainable strategies for the control of *Xylella*-induced diseases
- 🌿 Plant health management

The consortium

29 partners from 14 countries, including 4 non-European research centers from USA, Brazil, Costa Rica and Taiwan.













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Foremost activities

-  Studying the biology and pathogenicity of the Apulian strain and other EU-intercepted *Xf* strains that could represent a serious risk for the EU.
-  Develop basic scientific knowledge on relevant *X. fastidiosa* strains (host range, pathogenicity, population genetic).
-  Tools for early detection and surveillance programs.
-  Building capacity of farmers to manage the disease and prevent further economic losses in crops.
-  Building capacity and competence of plant health authorities to strengthen the EU plant health regime.
-  Establish more effective mechanisms and tools for risk assessment and prevention, as well as guidelines for eradication, vector control and disease management.
-  Knowledge of plant genetic markers for future breeding activities aimed towards more resistant plant varieties.
-  Collaboration between EU, America and Taiwan research centers.





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“Fostering the intelligibility of scientific acquirments, ensuring their prompt translation to policy guidelines and coordinated strategies for EU plant security”.

XF-ACTORS: A multidisciplinary research approach counteracting *Xf* threat with a full awareness of environmental, economic and social impacts.

“Develop prevention measures against the introduction, spread and establishment of *Xylella fastidiosa* within and from outside the EU”.

Events

Several events are envisaged to share knowledge about the project development and outputs:

-  International workshops
-  Progress meetings
-  Stakeholder platform events
-  Educational webinars
-  Round tables of capacity building

Target Plant Species

All major EU crops: olives, grapes, stone fruits, citrus.



As well as forestry and ornamentals species of major interest.





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Project Tasks

According to their expertise, XF-ACTORS partners are committed to different activities within the project:

- Basic Research
- Knowledge transfer and Applied Research
- Research outcomes valorization

Basic Research activities

16 EU and non-EU Academic Research Institutions
(CNR, CIHEAM, UNIBA, INRA, CSIC, IVIA, BPI, JKI, ILVO, UC, IAC, NTU, UCR,
NERC, IPB, USAL)

Knowledge transfer and Applied Research activities

7 organisations and research agencies
(JRC, CREA, CMCC, NVWA, IFAPA, IFOAM, EPPO)

Research outcomes valorization

6 R&D, communications and certifications companies and organizations.
(Russell IPM, ENBIOTECH, AINIA, S-COM, NAKTUINBOUW, CIVI-ITALIA)

Contacts

For general inquiries

info@xfactorsproject.eu

Press and media relations

communication@xfactorsproject.eu

Follow us on social media:



www.xfactorsproject.eu

