



EURL for fungi and oomycetes 2019/20 Workplan

EPPO Workshop for Heads of Plant Pest Diagnostic Laboratories

ANSES, Maisons-Alfort 10th September 2019

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EURL Team

Anses LSV – Unité de Mycologie, Nancy



From left to right: Renaud Ioos, Véronique Wilson, Carole Saurat, Sylvie Noyé, Camille Renault, Cécile Guinet, Kevin Fontaine, Alexandra Puértolas, Jacqueline Hubert, Violaine Sella, Jaime Aguayo.

Top line, left to right: Nathalie Schenck, Isabelle Cerf-Wendling, Céline Jeandel.

EURL Missions for 2019/20

EURL activities for the current working period are classified in four missions:

- To ensure availability and use of high quality methods and to ensure high quality performance by NRLs
- To provide scientific and technical assistance to NRLs

To provide scientific and technical assistance to the European Commission (EC) and other organizations

4.

To establish a reference collection of isolates and biological material and recommend reference reagents



10 Fungal pathogens listed by EU for 2019/20 working period







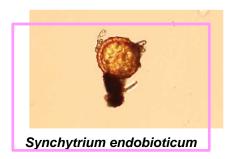


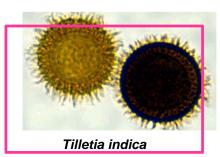












To ensure availability and use of high quality methods and to ensure high quality performance by NRLs



Guidance on the methods

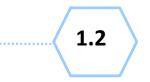
Literature review of available diagnostic methods of EU quarantine pathogens

Phytophthora ramorum, Tilletia indica, Geosmithia morbida, Gymnosporangium spp.,

Bretziella fagacearum, Elsinoë spp., Pseudocercospora angolensis

Providing reference materials to NRLs

Reference isolates of EU quarantine pathogens curated in EURL reference collection Phyllosticta citricarpa, Phytophthora ramorum, Geosmithia morbida, Bretziella fagacearum, Pseudocercospora angolensis, Elsinoë spp.



1.3

Organization of annual Proficiency Tests (PT)

First EU NRL proficiency test about the identification of *Fusarium circinatum* by the end of 2019 (morphology & molecular identification)



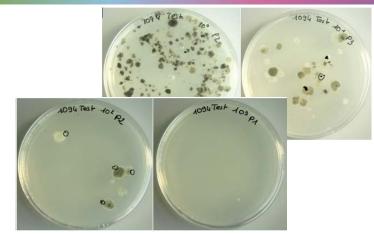
NRL participation in Proficiency Tests for NRL are highly recommended

It is very important NRLs send us the **import license/LOA (letter of authorisation)** beforehand, to
receive living quarantine fungal samples



To ensure availability and use of high quality methods and to ensure high quality performance by NRLs



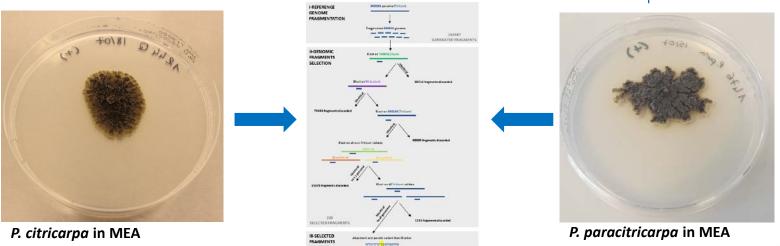


Production of monosporic cultures of *Phyllosticta* spp.

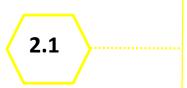
Production of diagnostic methods

Molecular diagnostic method to differentiate *Phyllosticta citricarpa & P. paracitricarpa*, among other *Phyllosticta* species, using a comparative genomics approach

1.4



To provide scientifical and technical assistance to NRLs

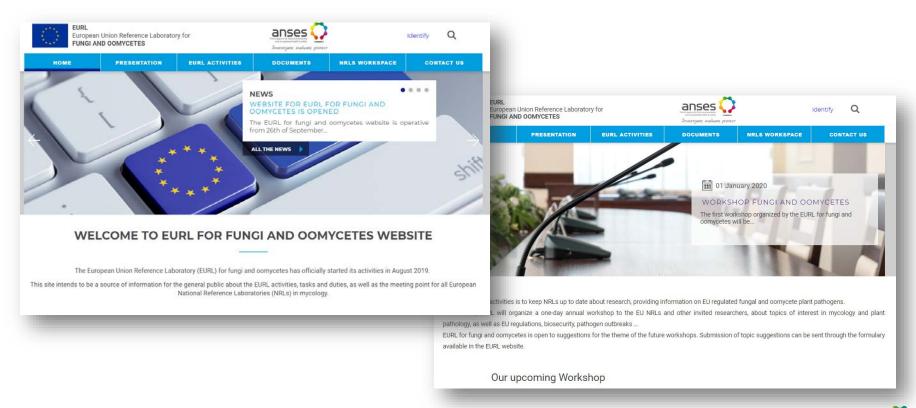


Updating NRLs about research – EURL Website & Workshops

EURL Website as working tool with NRLs and a source of information for the society It will be opened on the 26th of September

One-day annual workshop for NRLs will be organized.

First one at ANSES – Nancy, during the first half of 2020, about EURL activities







To provide scientifical and technical assistance to NRLs

2.2

Information on advances in diagnostic methods to NRLs

Up to date literature review of new diagnostic methods of EU quarantine pathogens

Available on EURL website & newsletters

Annual training courses for NRLs and other laboratories/experts

For 5-6 participants per course, and up to 2 sessions if high demand.

The aim is to improve skills of NRLs after the PT when necessary.

First one after the organization of the PT about *Phyllosticta citricarpa*

2.3





2.4

Improving skills of EURL staff

Improving our own skills and build our expertise in EU quarantine pathogens

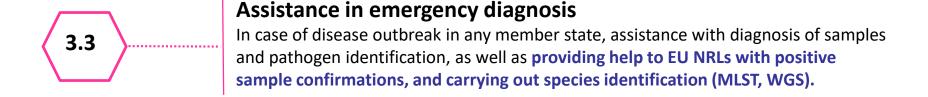
Training in Synchytrium endobioticum for the first working period



To provide scientific and technical assistance to the European Commission (EC) and other organizations



Collaboration with EFSA and third countries Assistance to EFSA with our expertise. Support to third countries under request Tunisia requested support with Phyllosticta citricarpa outbreak 3.2







To provide a reference collection of fungal and oomycete isolates and reference reagents

4.1

Reagents validation

To ensure the quality of reagents used for diagnostic purposes. **Different reagents, media** and **DNA extraction kit brands will be challenged to assure specificity, efficiency and sensitivity.** We will start with the method development for *Phyllosticta* species

Establishing the EURL reference collection

High quality fungal & oomycete collection, available for NRLs under request using EURL website. All strains in the collection will be validated and available in different formats (DNA, culture, plasmid, microscopic slides), and originated from monosporic isolates









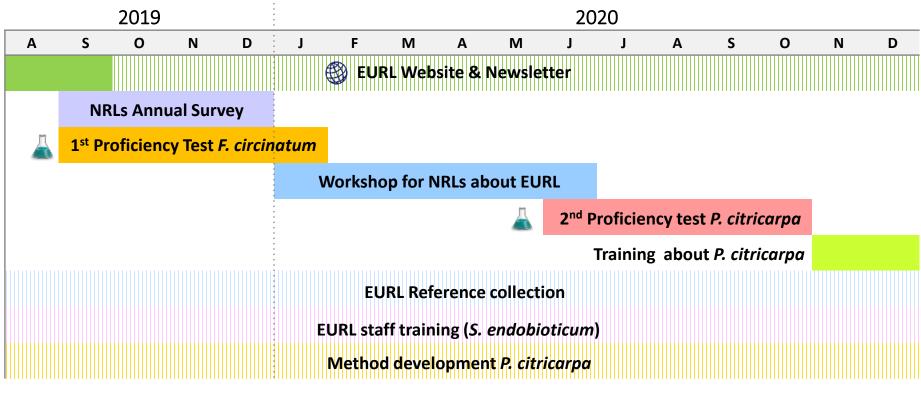
4.3

List of reference reagents

List of reagents and suppliers used in validated methods recommended by EURL (and alternative ones). The list will be available in the EURL website



Timeline for EURL activities





After the opening on the 26th of September, **EURL Website & Newsletter** will be permanently and regularly maintained



The dates for the second PT and first training about P. citricarpa are approximated



Thank you for your attention

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