

VIRTUAL MOBILITY (VM) GRANT REPORT

This report is submitted by the VM grantee to the VNS Manager, who will coordinate the approval on behalf of the Action MC.

Action number: CA16107

VM grant title: Transform the compiled and published data in WG1 into a web-based, dynamic resource

VM grant start and end date: 20/08/2021 to 14/09/2021

Grantee name: Joana Cardoso da Costa

Description of the outcomes and achieved outputs (including any specific Action objective and deliverables, or publications resulting from the Virtual Mobility).

The key goal of this VM Grant proposal was to define how to transform the compiled and published data in Working Group 1 from COST Action Euroxanth into a web-based, dynamic resource, namely published protocols for detection of Xanthomonadaceae listed as quarantine organisms in Europe (Deliverable 5) and lists of molecular markers useful to study the genetic diversity and population structure of plant-associated Xanthomonadaceae (Deliverable 6) (Catara et al., 2021, *Microorganisms* 9: 862).

The VM was presented in a meeting on the 7th September at 9:00 am (CET), with the presence of the Leaders and Vice leaders of Euroxanth Action, WG1 and WG2 met via Zoom to discuss how to transform the compiled and published data on protocols for detection of *Xanthomonadaceae* listed as quarantine organisms in Europe and lists of molecular markers useful to study the genetic diversity and population structure of plant-associated Xanthomonadaceae into a web-based, dynamic resource.

After a brief welcome, Joana Costa presented the objectives of the Virtual Mobility Grant and a detailed description of the references and data gathered by the EuroXanth network to be uploaded into the resource. After a brief discussion, it was decided that the web-based resource will be focused on data supporting the diagnosis of plant diseases caused by *Xanthomonads*.

Joana Costa then presented a proposal for organising the information on the platform, which was promptly discussed among the participants. It was decided that the information to be made available on the web-based resource would be organised in a table format that allows filtering and sorting.

The information will be conveyed through the name of the first author and year of publication, with the hyperlink to the paper (or another resource) embedded in the table.

The data provided in the web-based resource is that contained in the peer-reviewed article published by the team Catara et al., 2021 (<https://www.mdpi.com/2076-2607/9/4/862>).

Another point discussed among the participants was the location and type of platform to be used.

It was decided that grant holder Joana Costa will consult with the IT team in her institute to choose a database that has the following functionalities - data presented in datasheets (following the example of

EPPO's webpage); filtering and sorting options; easily updatable with the option to undo changes; end-user update functionality after peer-review by the web-based managers.

At the end of the meeting, it was decided that Joana Costa will implement a draft version of the platform. This version will be reviewed by Leaders and Vice leaders of Euroxanth Action, WG1 and WG2 to make the collected data available as soon as possible.

Contribution to the COST Action and the COST Strategy for each of the virtual events and collaboration activities organised:

This Virtual Mobility Grant contributed to the dissemination of the data and knowledge assembled during this COST Action and therefore leverage the COST strategy.

Detailed, up-to-date and systematised information on pathogens leading to their identification and characterisation are essential keys to efficient and sustainable disease management and especially to preventing the introduction and spread of pathogens and should be considered as a major step in plant disease control. During this COST Action, information and protocols that were dispersed were compiled and integrated and their availability on a platform of easy access and consultation will allow the interested public easy access to this information that can be used in a more effective way contributing to the general objectives of the Action.