

Validation of diagnostic methods for the detection and identification of whitefly-transmitted viruses of regulatory or quarantine concern to the EU (QDETECT)



Funding

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Research consortium

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Goals

To validate diagnostic methods for the detection and identification of whitefly-transmitted viruses of regulatory or quarantine concern to the EU.

Objectives

- To validate inter-laboratory methods of nucleic acid extraction for whitefly-transmitted viruses.
- To validate inter-laboratory TaqMan and traditional PCR methodology for detection of specific whitefly-transmitted viruses: Tomato yellow leaf curl virus (TYLCV), Tomato chlorosis virus (ToCV), Tomato infectious chlorosis virus (TICV), Cucumber vein yellowing virus (CVYV) and Cucurbit yellow stunting disorder virus (CYSDV).
- To develop harmonised protocols for viral nucleic acid extraction and identification of whitefly-transmitted viruses by TaqMan and PCR

Key outputs and results

- Validated methods developed for the detection and identification of whitefly-transmitted viruses of regulatory or quarantine significance to the EU.
- TaqMan PCR methods validated for detection and identification of whitefly-transmitted viruses of regulatory or quarantine significance to the EU.