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## « Mycorray » Project A new tool for detecting pathogens to accelerate Research on the Trunk Diseases

The R & D team from Novatech laboratory developed a diagnostic tool in partnership with researchers from all over the world as part of the subsidized project by 7<sup>th</sup> R&D Program of European Community.

In practical terms, this project proposes to transfer the technique of DNA chip to a fast detection of ESCA associated pathogens. This product is very interesting for Research on Trunk Diseases. **This molecular diagnostic tool is able to identify 12 species of ESCA associated pathogens and Agrobacterium Vitis.** Every fungus is identified with the help of more than 3 associated gens to support their specificity. All DNA sequences are connected with DNA probes placed side by side in a same DNA chip (Microarray chip) positioned in the bottom of a tube to achieve the DNA breeding. This chip has about 160 targets as all the molecular reactions are repeated twice ("Duplica"). The ergonomic and fast operation is the leitmotiv of this tool.

Other innovating aspect of this tool: the analysis results are finally now affordable to a non-specialist of molecular biology, thanks to the camera reading the DNA chip, which interprets the result thanks to an Android application linked with this camera.

In concrete terms, this new tool of detection will make easier and more reliable vines analyses from Research teams all over the world who are working on Trunk Diseases. This major Innovation reinforces the Mercier Group competence in sanitary quality and opens new perspectives to his R&D department.



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You can meet us during SITEVI 2015: from 24<sup>th</sup> to 26<sup>th</sup> November - Montpellier - Stand N° 025 - Hall A4 - Allée B