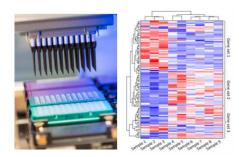


Unraveling the mode of action of biocontrol products Biocidal, antogonist or elicitor effect

Vegenov developed performant tools and bioassays to determine the mode of action of plant protection products under controlled and semi-controlled conditions.

Evaluation of the ability to trigger plant defense pathways through gene expression analysis (molecular tools)



Transcriptomic approach with high-density microarrays



More than 30,000 genes covering all metabolic pathways

Quantitative low-density "qPFD®" genes expression profiles









Tomato

Apple

Potato Wheat

A selection of 28 defense genes covering the different signaling pathways (e.g. salicylic acid, jasmonic acid, ethylene) or downstream defense pathways (e.g. PR proteins or enzymes of the secondary metabolism)

Evaluation of direct or antagonist effect of the product under controlled conditions (bioassays)

We can evaluate the direct or antagonist effect of your product at different development stages of the pathogen: spore germination, mycelium growth, bacterial multiplication...





Assay on mycelium growth

We can also do **bibliographic searches** to see what has been published in scientific literature which can help you to better understand the mode of action your products.



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