



KEY-WORDS:
ELICITOR - SUSTAINABLE VITICULTURE - IPM

PROFILE

I am a first-year PhD student in Plant Science specialized in Plant Pathology and Sustainable Crop Protection.

AFFILIATION

Department of Sustainable Plant Production Sciences (DIPROVES)
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LANGUAGES



Mother language



Level B2

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PROJECT TITLE

Study of natural compound for elicitation of defence responses in plants of agricultural interest

Steps of the research

- Characterization of the Physical mode of Action (PMoA) of the active ingredient Laminarin through tests of preventive efficacy by inoculating the pathogen at different timings after treatments.
- Understanding the effects of laminarin-based treatments on vine metabolism through an approach by untarget metabolomics
- Based on the results obtained, study the best strategies for vineyard use of laminarin, figure out how to best use it in mixtures and test in the field.

Main Results

Understanding the protective dynamics of laminarin so as to have useful data to develop the best strategies for use in controlling grapevine downy mildew.

Research Contribution

Currently, we do not have much clarity about the protective dynamics of many elicitors; greater knowledge of the operation and the influence these products have on the metabolism of the grapevine will help both farmers and phytosanitary protection enterprises in their optimal use.

Why should you care?

The phytosanitary management of grapevine downy mildew is among the most complex to manage, the adoption of alternative strategies such as resistance inducers of natural origin can help us pursue the ambitious goal of reducing the vineyard use of chemical fungicides and copper-based products, in accordance with current European guidelines.