Chiara Brischetto

KEY-WORDS:
· EPIDEMIOLOGY · SOUR ROT · CONTROL STRATEGIES ·

PROFILE

I am a third-year PhD student in Sustainable Crop Production specialized in the Plant Pathology. I am working with international labs and I am acquiring more knowledge and innovative approaches in this area.

AFFILIATION

Department of Sustainable Crop Production (DI.PRO.VE.S.)
Università Cattolica del Sacro Cuore

LANGUAGES

Mother language

Level B1

HOW TO REACH ME

Email Address:
chiara.brischetto@unicatt.it

Reference Contact

Prof. Vittorio Rossi

PROJECT TITLE

Sour rot of grapes: causal agents, epidemiology and sustainable control

Steps of the research

- Define the main agents of sour rot.
- Study the disease progress in selected vineyards and determine the most important predisposing factors by using multivariate data analysis.
- Develop a mechanistic model for predicting the onset and development of sour rot.
- Test the efficacy of different chemical products and biocontrol agents.

• Main Results

The mechanistic model will be used to predict sour rot infection in vineyards and improve disease control.

Research Contribution

- When validated, the mechanistic model will be included in a Decision Support System (DSS).
- DSS provides farmers with information on sour rot risk and this information can be used for scheduling treatments according to the actual infection risk.

Why should you care?

The knowledge of Sour rot disease has not been completely and clearly understood. A mechanistic, weather-driver model implemented in a DSS may help vineyard managers to make "informed decisions" and optimize the use of both natural resources and technical inputs.