



KEY-WORDS:
VINEYARD · EPIDEMIOLOGY · PLANT
DISEASE

PROFILE

I am agricultural engineer, master of science in plant production and a second-year PhD student in Crop Science specialized in epidemiology and plant protection

AFFILIATION

Department of Sustainable Crop Production (DI.PRO.VE.S.)
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LANGUAGES



Mother language



Level B2



Level B1

HOW TO REACH ME

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PROJECT TITLE

Exploiting biodiversity in perennial crops to reduce pesticides use, increase ecosystem services provision and mitigate climate change effects.

Steps of the research

1. Determine how the use of cover crops contribute to microbial diversity and practical disease control in the vineyard.
2. Study the effects of microbial manipulation of the rhizosphere on plant growth and physiology during the wine-growing season and the effect on plant resistance.
3. Evaluate the role of resistant varieties in grape disease control.
4. Evaluate the effect of biodiversity and disease control on ecosystem services.

Main Results

Innovative soil management strategies in vineyards to reduce pesticide use, increase ecosystem services provisions and mitigate climate change effects.

Research Contribution

The techniques and strategies developed during the research will allow strengthening the vineyard protection strategies as a case study and also the development of indicators on the ecosystem services involved. These will provide a direct measure of the impact of the crop protection and will also allow to quantify the enhancement of the territory.

Collaborations

DISTAS (Unicatt) – Prof. E. Puglisi
Horta – Technological innovation transfer

Why should you care?

The use of biodiversity in multi-year cultivation systems (such as the vineyard) is the main tool for the development of innovative techniques and strategies. Evaluating and studying the use of resistant varieties, cover crops and the strengthening of the soil microbiome will allow us to generate a competitive advantage for our agricultural production, in particular for organic ones with a lower impact on the different elements of the ecosystem: soil, water, biodiversity, landscape, atmosphere and energy.