BIOVINE

Exploit biodiversity in viticultural systems to reduce pest damage and pesticide use, and increase ecosystems services provision.

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OBJECTIVES:

BIOVINE aims to **develop new viticultural systems** based on **increasing plant and functional diversity** within (e.g. cover crops) as well as around (e.g. hedges, vegetation spots, edgings) vineyards by planting plant species able to contribute to the:

- **control of pest populations** (pest = any organism harmful to crops, including oomycetes, fungi, bacteria, nematodes and arthropods);
- **reduction of pest damages**;
- **reduction of pesticide use;**
- **increase of the ecosystem services provided**.

WP1 PROJECT MANAGEMENT AND RESULT DISSEMINATION

WP2 CONTROL OF ARTHROPOD PESTS

WP3 CONTROL OF SOIL BORNE PESTS

WP4 INCREASE OF PLANT RESISTANCE THROUGH MYCORRHIZAL FUNGI

WP5 CONTROL OF FOLIAR PATHOGENS

WP6 DESIGN INNOVATIVE VITICULTURAL SYSTEMS

WP7 TEST INNOVATIVE VITICULTURAL SYSTEMS

ACTIVITIES: During the project we will identify and select candidate plants, to be tested for their ability to control arthropod pests, promote beneficials, control soil-borne pests (oomycetes, fungi, nematodes), carry arbuscular mycorrhizal fungi and control foliar pathogens.

EXPECTED RESULTS AND IMPACT: The control of grapevine pests is the most important and difficult task in organic viticulture. Insufficient control is often the main reason for growers to abandon organic production and renounce to a very interesting and growing market. Research carried out in the BIOVINE project aims to:

- Provide organic farmers with strategies to control pests in the vineyard, based on plant diversity to control pests and reduce pesticide dependence;
- Identify and study candidate plants for the enhancement of functional biodiversity in the vineyard;
- Develop new and efficient strategies for controlling grapevine pests;
- Test the new viticultural systems in different Countries in Europe (France, Italy, Romania, Spain and Switzerland);
- Estimate the effect of the developed and tested viticultural systems on ecosystem services.

CORE organic

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For more information please visit the website:
www.biovine.eu