

"Biodiversity measures in the vineyard, Biodivine life + project i.e. in a Malvasia de Sitges vineyard"

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LIFE+ BioDiVine

LIFE + Nature and Biodiversity 2009





# The project LIFE+ 2009 BioDiVine

- The study and protection of biodiversity is one of the priorities on the European Union.
- Vineyards are important in Europe as a traditional crop and can give a high added value. But often has been linked to high use of pesticides.
- This project aims to increase the functional biodiversity in viticulture landscape.

## The project LIFE+ 2009 BioDiVine \*



Territoires Paysages

#### PROJET EUROPEEN LIFE+ BIODIVINE - LOCALISATION DES VIGNOBLES SITES DE DEMONSTRATION Légende Site de démonstration BioDiVine Ville principale Réseau hydrographique Bourgogne Saint-Emilion FRANCE Alto-Douro Costières de Nîmes **ESPAGNE** Barcelone Limoux Penedès Rioja

Sources: Corine Land Cover 2006.



# BioDiVine objectives:

- To contribute to environment conservation and increase biodiversity.
  - Need to measure biodiversity in different vineyards and landscapes
- Promote a landscape structure to improve vineyard biodiversity.
  - Cover crops, hedges, non cultivated areas, use of non chemical pest control methods.



 Arthropods monitoring, regulation of pest populations.

 Plants monitoring, birds, mammals, soil microorganisms activity.







#### Natural control of pests

- Anagrus atomus
  - Egg parasitoids
- Pipinculid flies
  - Parasitoids of nymphs
- Predators
  - Malacocoris chlorizans
  - Orius sp.
- Jumping spiders
  - Salticus scenicus
- Lacewings
  - Chrysoperla sp.



#### Malvasia de Sitges is adapted to the area

- History
- Culture
- Ampelography
- Renewed interest
- Diversity of products





#### Natural control of pests



Malvasia de Sitges vineyard with cover crop



Example of plants and animal increase

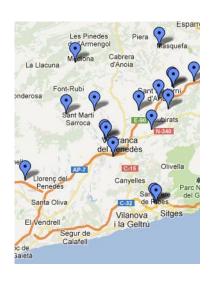


- Biodiversity can influence the population of fermenting yeast on the grapes and be important in non inoculated wines.
- To determine the risks of non inoculated fermentations from yeast samples taken in the vineyard.
- To compare the effects of vineyard landscape on yeast populations.



### Sampling method

 The samples were collected from grapes in a sterile tubes.





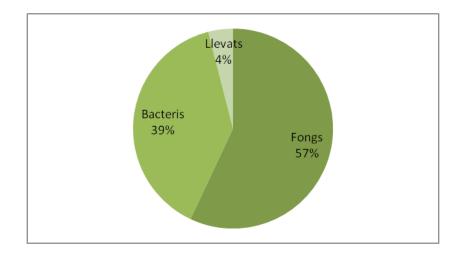


#### Results





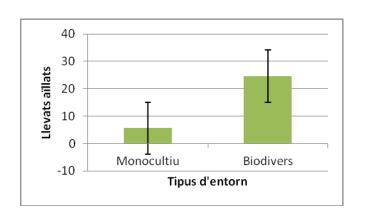






#### Results





In a preliminary result, bigger yeasts counts were obtained from the vineyards with a diverse landscape. Further studies are needed to interpret the results.

Thank you Monemvasia for your hospitality