# Modelli sostenibili di coltivazione del vitigno Greco: efficienza d'uso delle risorse ed applicazione di indicatori della 'Footprint family'

https://www.innovarurale.it/pei-agri/gruppi-operativi/bancadati-go-pei/modelli-sostenibili-di-coltivazione-del-vitigno-greco

# Sustainable cultivation of grapevine Greco: resource use efficiency and application of the footprint family indicators

Riferimenti

Tipo di progetto

Gruppo Operativo

Acronimo

GREASE

Tematica

Uso delle risorse naturali

Information

Time frame

2019 - 2023

Durata

48 months

Partners (no.)

4

Regione

Campania

Comparto

Viticoltura

Localizzazione

ITF34 - Avellino

Costo totale

€343.688,00

Fonte di finanziamento principale Programma di sviluppo rurale

Programma di sviluppo rurale 2014IT06RDRP019: Italy - Rural Development Programme (Regional) - Campania

Parole chiave

Climate and climate change Farming/forestry competitiveness and diversification

Soil management / functionality Farming practice

Plant production and horticulture Agricultural production system

Sito web

https://www.progettogrease.it/

Project status



# Objectives

The project falls within the framework of the sustainable management of vineyards in the sight of climate change. The low profitability of the cultivation area of Greco di Tufo DOCG is responsible for crop conversion and consolidation of small/medium-sized farms into larger ones. The general objective of the project is to realize a specific model of vine pruning and soil management to improve the potential of Greco, in order to achieve a good vegetative and reproductive balance, the improvement of farm profitability, of grape and wine quality, and finally of environmental sustainability.

## Activities

The projects has 3 main multidisciplinary activities:

- analysis of the effect of the change in vine pruning on resources' use (dendro-anatomical and -isotopic analyses);
- analysis of the effect of vine pruning and of
- analysis soil management on the continuum soil-plant-atmosphere system with specific activities such as: pedoclimatic, vegetative and reproductive, physiological and hydraulic characterization; microvinification and characterization of grapes and wine produced in the different trials; evaluation of resources use efficiency, pests, footprint family markers; model development.

### Context

Climate change is one of the main challenges for future agriculture since it



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# ongoing

can severely affect plant growth. The Mediterranean area is one of the most vulnerable regions where climatic models forecast a significant increase in the frequency and severity of drought events. On-going climate change is worsening some critical issues in the production of the grapevine Greco. The Greco is cultivated in several areas of Campania Region where, notwithstanding the pedoclimatic variability, it is possible to produce wines of good quality and longevity. Indeed, Greco is used alone or blended in many regional quality label wines. The Greco cultivation is strategic for the safeguard of the territory, of the environment and cultural heritage.

Nowadays, there is a high risk for the economic sustainability of Greco cultivation due to 3 main issues: reduced vine productivity, the low selling price of grape, and territory fragmentation. Such critical issues induce the abandonment of small/medium-sized farms due to either crop conversion or consolidation into larger farms.

The Greco vine represents a study model to introduce management techniques of cultivation factors aimed to solve problems common also to other autochthonous regional cultivars, such as low fertility and unbalanced ratio among sugars, acids, and other compounds responsible for specific flavors.

## Partenariato

Role	Azienda	Address	Telephone	E-mail
Partner	Feudi di San Gregorio Società Agricola SPA	Località Cerza Grossa 83050 Sorbo Serpico AV Italy	+39 0825 986611	
Partner	Università degli studi della Campania - Dipartimento di Scienze e Tecnologie Ambientali, Biologiche e Farmaceutiche (DiSTABiF)	Via Vivaldi, 43 81100 Caserta CE Italy	0823 275104	distabif@unicampania.it
Partner	CNR - Istituto per i Sistemi Agricoli e Forestali del Mediterraneo (ISAFOM)	Via Patacca, 85 80056 Ercolano NA Italy	+39 081 788 6701	presidenza@cnr.it
Leader	Università degli Studi di Napoli "Federico II"	Corso Umberto I 40 80138 Napoli NA Italy	081 2531111	contactcenter@unina.it

## Pratice abstract



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## Description

The proposed innovation regards the processes of management of some agricultural practices for sustainable viticulture from and economic, environmental and social viewpoint. The Greco is a study model and the Innovation project aims to a rationalization of the management of pruning and soil in order to solve critical issues in the productivity (yield and quality of grapes and wine) of Greco. This study model is applicable to other cultivars with similar critical issues.

The impact of the project on other wineries of the Campania Region is significant due to the easiness in know-how transfer to other cultivars by the simple modulation of the agronomical practices without the need for long-term structural investments. The knowledge and know-how transfer is already part of this project.

The Innovation will be also useful for other enterprises in the fields of technologies and biotechnologies applied to viticulture and oenology and of associated farms (e.g., producers of fertilizers, seeds), to realize products and services better adapted to the development of a cultivar-specific viticulture and oenology.

### Link utili

Titolo/Descrizione	Url	Tipologia
Sito web del progetto	https://www.progettogrease.com/	Sito web
Video del webinar VINO 4.0: tecnologia, ricerca e sostenibilità per il settore vitivinicolo	https://www.youtube.com/watch?v=w5VpZMNYLvo	Materiali utili

