



Practical abstract

The power of grape extracts

Why grape extracts?

Natural extracts with excellent properties for use as functional ingredients are obtained from the recovery of waste from the wine industry that preserves, after the white winemaking process, a significant amount of bioactive compounds. It is a cost-effective, efficient, and green solution in sustainable circular economy production systems.

NeoGiANT Context



Customers demand environmentally friendly products as well as solutions for animal health with no side effects for animals and final consumers. The natural extracts produced meet these demands as an innovative solution and alternative to synthetic compounds with antimicrobial and antioxidant capacity. They will be used efficiently and cost-effectively in animal production, serving also as a prophylactic treatment.

Objectives

- Development and validation of innovative natural formulations for use in cattle, swine, poultry and farmed fish production in the feeding, health and reproduction areas.
- Reduction the dependence on the use of antibiotics and contributing significantly to the fight against antimicrobial resistance (AMR) arising from farm animal production.
- Improvement of consumer perception for ingredients from by-products and the creation of new connections between the agri-food and animal health sectors.

Network

Partners will produce grape extract and natural formulations with antimicrobial properties and evaluate antimicrobial activity in vitro, for small-scale feed, for the treatment of animal diseases and for small-scale sperm preservation. In vivo effects on the immune system and the gastrointestinal tract will be studied and eco-design and commercial validation at pre-industrial scale will be performed. Aspects such as market, exploitation, legal requirements, cooperation with the European Commission services will be considered. The results will be communicated and disseminated.

