Revolutionising animal health through green technology for sustainable antibiotic alternatives

NeoGiANT offers an innovative solution based on the known potent natural antimicrobial and antioxidant activities of grape marc extracts, due to their arsenal of phytochemicals, particularly their phenolic compounds content. Suitable bioactive molecules from white grape marc were identified, with a validation of their benefits (e.g., antimicrobial, antioxidant) and recovered for matching their sustainable sourcing and processing with efficient and cost-effective use in animal production.

Products obtained in NeoGiANT will be used for feeding, animal pharmaceutical applications and sperm extender, being their production sustainable at 3 levels:



Social: ingredients obtained are linked to antioxidant and health protective attributes that will be studied through in vitro and in vivo studies. Antimicrobial resistance (AMR) in humans is related to the antibiotics used in farming. Thus, NeoGiANT will reduce AMR, by reducing the entry of antibiotics into the food chain.



Economic: The functional products are being obtained in sustainable circular economy production systems.

Environmental: Use of viticulture by-products as raw material, use of green technologies (no harmful chemicals, low temperatures, energy efficiency), zero waste process.



Horizon 2020
European Union Funding
for Research & Innovation

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101036768

NeoGiANT H2020 project @NeoGiANT_H2020