## In vivo testing of NeoGiANT extract-based formulations Anitom in livestock and aquaculture

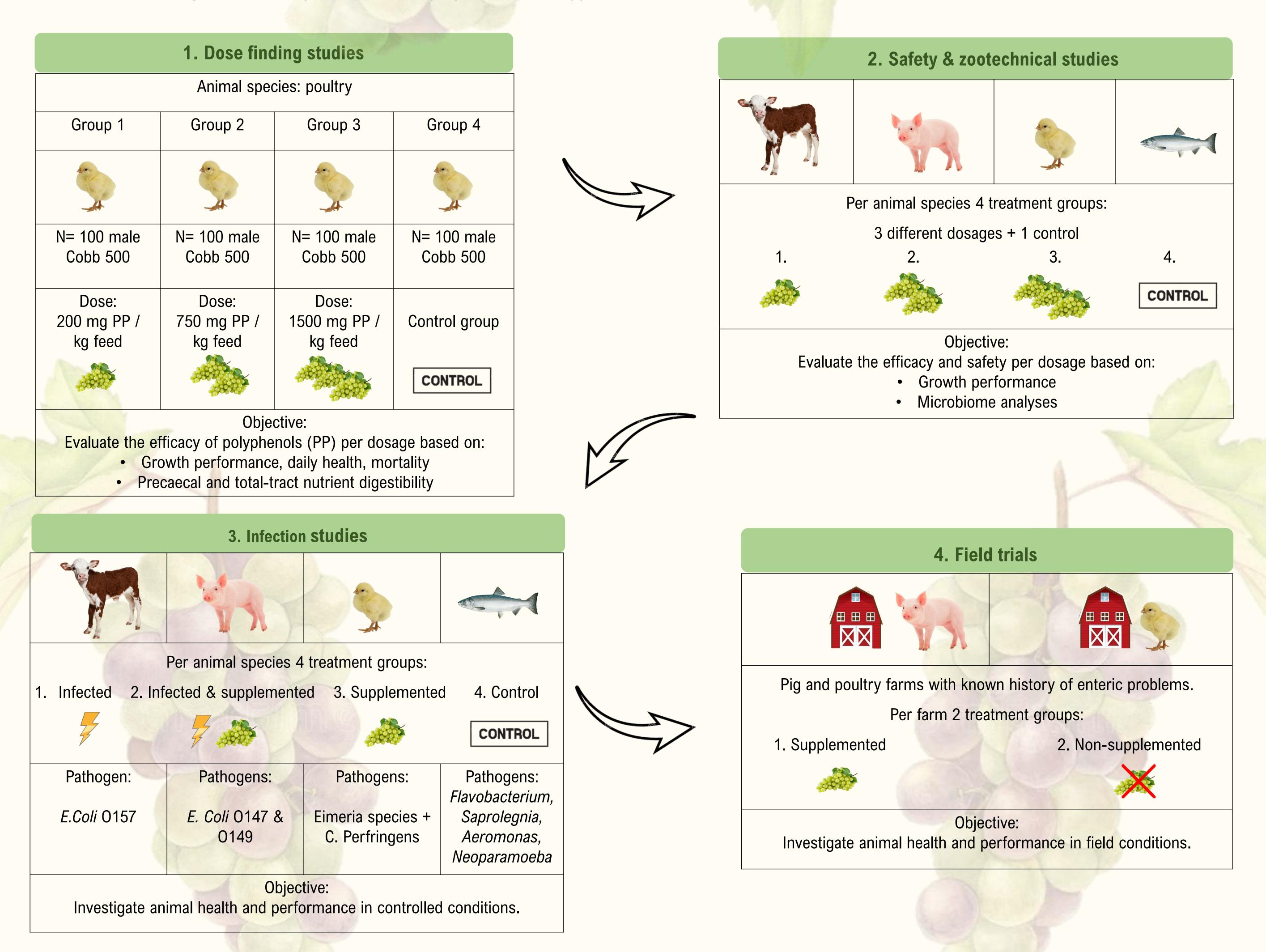
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## Introduction and objectives

In light of emerging antimicrobial resistance (AMR) in humans and animals and increasingly limited efficacy of current conventional antibiotic treatments, extra effort is expected from livestock farmers to use as few antibiotics as possible. In addition, alternative and broader approaches to treat infections are urgently needed. In order to fight AMR and support livestock farmers in keeping animals with fewer or no antibiotics, 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 e.g. polyphenols (PP). The effect of the extract-based feed formulations will be evaluated based on health, performance parameters and disease prevention properties in cattle, swine, poultry and fish.

## **Methods** and results

After developing and testing the extract (e.g. for stability), premixes are produced and mixed into the feed for the in vivo trials.



## **Conclusions and implications**

Since this project is still in an early stage, we cannot present any conclusions yet. The extract is developed and the *in vivo* trials have started. The target products to be developed will be designed to control a large number of diseases of paramount importance in animal production, both in livestock (cattle, swine, poultry) and aquaculture. As a result, NeoGiANT aims to provide effective alternatives to the main antibiotics used in farmed animals, contributing to the goal of reducing their use. At the same time, the speed of emergence of new AMR will be reduced, and existing antimicrobial resistances will be better controlled.





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