EVALUATION REPORT OF DOCTORAL THESIS

Title of the thesis

Green strategies in the finishing pig diet: in vitro and in vivo studies on the use of an olive mill wastewater phenolic concentrate

Name of the PhD candidate

Flavia Ferlisi	

Name and affiliation of the referee

Prof. Giuseppe Martino - Università degli Studi di Teramo

Category	Rating	Comments		
		The research can be considered innovative because there		
Research Questions/Set-up		is a gap in the current scientific literature regarding the		
		potential positive effects of polyphenol extracts on swine		
		cured products and intestinal ecosystem		
		The literature included in the thesis is well organized and in line with the		
Literature Review		information and the topics of the project		
		Methodology is clear and complete, and methods are easily		
Methodology		reproducible		
Analysis/Presentation of Results		Results are well interpreted and explained with clear tables and graphs		
		Results are clearly discussed and well-compared with the existing		
Discussion/Implications		literature about both olive and		
		other natural plant-derived polyphenols - Relevant implications for future		
		research and possible impacts on		
		human health are discussed as well.		
Quality of Writing		Overall, the thesis is well written and the ideas are expressed clearly.		
		The four chapters of the thesis are well organized and encompass a wide		
Overall Rating		range of in vitro, in vivo and post-slaughtering analyses. Overall, the		
		data obtained in the described experiments represent an interesting		
		contribution to the scientific literature on nutraceutics and quality of		
		products of animal origin.		

Additional comments:

The thesis describes a currently relevant research topic in the field of animal nutrition, focusing on the effects of natural phenolic compounds in swine diet. It includes innovative experiments, ranging from *in vitro* and *in vivo* studies to post-slaughtering outcomes (meat and meat-derived products). It is composed of two papers published in high-impact journals and a third paper which has been submitted. The last manuscript, which examines the effects of polyphenols on meat and meat-derived products, is presented as "in progress". Therefore, any additional data could further improve the discussion and the understanding of the topic.

Please review the attached evaluation guidelines and provide your assessment below.

Criteria	Grade	Descriptive Anchors
Research		. = 1000
Question/Set-	В	Research questions clearly articulated and
up		sufficient background information included.
Literature	A	Identifies relevant research and literature
Review		and accurately summarizes and integrates the information.
Methodology	D	Demonstrates and faint Impulades of
-	В	Demonstrates proficient knowledge of methodology and gives justification for
		selection of methods.
Analysis/		
Presentation	В	Results clearly summarized, discussion of
of Results		results focused and tied to research question
Discussion/		are I reduct
Implications	В	Discussion of results focused and connected
		to research questions. Implications for future research discussed.
Quality of	A	Ideas expressed with very good clarity,
Writing		logic, and conciseness.

Teramo, 20.02.2025

Prof. Giuseppe Martino