

# 2024

## **GEORGE A. PAPADOMICHELAKIS**

**Professor in Nutrition of Monogastric Herbivores**, Laboratory of  
Nutritional Physiology and Feeding,  
Department of Animal Science,  
School of Animal Biosciences,  
AGRICULTURAL UNIVERSITY OF ATHENS

75 Iera Odos Street, 118 55, Athens

Tel.: +30 210 529 4434, Fax: +30 210 529 4413

e-mail: [gpapad@aua.gr](mailto:gpapad@aua.gr)

Skype: g.papadomichelakis

URL: [https://zp.aua.gr/en-gb/faculty/papadomichelakis\\_george/](https://zp.aua.gr/en-gb/faculty/papadomichelakis_george/)

## **CURRICULUM VITAE**

**STUDIES**

- 11/2001:** Ph.D. in Agricultural Sciences (Agricultural University of Athens). Thesis: «Effects of diet on semen traits of male rabbits»
- 11/1996:** B.Sc. in Animal Science and M.Sc. in Agricultural Engineering, Agricultural University of Athens.

**PROFESSIONAL EXPERIENCE**

- 10/2024-present:** Professor in Nutrition of Monogastric herbivores, Laboratory of Nutritional Physiology and Feeding, Department of Animal Science, Agricultural University of Athens.
- 07/2020-present:** Associate Professor in Nutrition of Monogastric herbivores, Laboratory of Nutritional Physiology and Feeding, Department of Animal Science, Agricultural University of Athens.
- 07/2013-07/2020:** Assistant Professor in Nutrition of Monogastric herbivores, Laboratory of Nutritional Physiology and Feeding, Department of Animal Science, Agricultural University of Athens.
- 03/2006–07/2013:** Lecturer in Nutrition of Monogastric herbivores, Dept. of Nutritional Physiology and Feeding, Faculty of Animal Science and Aquaculture, Agricultural University of Athens.
- 11/2004–02/2006:** Post-doc senior researcher in the project “PYTHAGORAS”, Faculty of Animal Science and Aquaculture, Agricultural University of Athens. Post-doc topic: «Effects of maternal undernutrition in physiological and productive traits of sheep offspring».
- 01/2004–07/2004:** Research fellow in the Dept. of Clinical Veterinary Science, Division of Farm Animal Science, University of Bristol, UK.
- 03/2003–01/2004:** Research fellow (P.D. 407/80) Dept. of Nutritional Physiology and Feeding, Faculty of Animal Science and Aquaculture, Agricultural University of Athens.

**FELLOWSHIPS & AWARDS**

- Scholarship from the State Scholarship Foundation during 1995-96 (student's excellence) and as Ph.D. candidate (1997-2001).
- Scholarship from the European Association for Animal Production (EAAP), as young scientist in 2000 (The Hague, The Netherlands, August 2000).
- Awarded by the journal of *Animal Feed Science and Technology*, *Meat Science and Journal of Food Composition and Analysis* for outstanding contribution in reviewing research papers

**RESEARCH TOPICS OF INTEREST**

- Nutritive evaluation of feedstuffs.
- Efficacy of additives (organic acids, trace elements, etc.) in animal nutrition.
- Fortifying animal products with bio-functional ingredients through nutrition.
- Evaluation of inert indicators for the calculation of feed digestibility.
- Development of methods for predicting feed digestibility using near-infrared reflection spectroscopy (NIRS) in combination with artificial neural networks.
- Laboratory preparation and experimental evaluation of innovative nanomaterials in animal feeding.

**TEACHING ACTIVITIES**

- During my carrier I have been assigned lectures in:
- Feed Manufacturing Technology (theory), 8th Semester
  - Nutrition of companion animals (dog, cat, equines), 5th Semester

- Feedstuffs (practicals), 5th Semester
- Monogastics Nutrition (theory and practicals), 8th Semester
- Nutrition of Farm Animals (general principles/theory and practicals), 4th Semester
- Modern Analytical Procedures and Experimental Animal Feeding in the M.Sc. courses of the Faculty of Animal Science and Aquaculture.
- Feedstuffs Chemical composition and quality in the Interdepartmental M.Sc. course (Faculty of Animal Science and Aquaculture and Faculty of Food Technology).
- Fibre fractions analysis in the Interdepartmental M.Sc. course “Integrated management of milk production and milk products” (Faculty of Animal Science and Aquaculture and Faculty of Food Technology).
- «Establishment of pig farm with 400 sows – Feasibility survey», «Innovations in Animal Science» and «Modern technologies in Feed manufacturing» in the Interdepartmental M.Sc. course (Faculty of Animal Science and Aquaculture and Faculty of Agricultural Economics and Rural Development).
- «Nutrition of Farm Animals» and «Monogastrics Nutrition» in Erasmus students.

#### ***Student supervision***

I have supervised 39 bachelor and 10 master theses. Additionally, I have participated as member of the Advisory Board in 101 bachelor and more than 14 master theses. Supervisor in 1 doctoral thesis, member of the Advisory Board in 3 doctoral theses and member of the Examination Board in 1 doctoral thesis.

## **RESEARCH PROJECTS**

### **As principal investigator:**

1. “Geospatial digital observatory for pasture monitoring & evaluation”. Principal investigator: G. Papadomichelakis, (22/02/2023 – 31/05/2025). Funding: Ministry of Rural Development and Food.
2. “Karditsa consultancy program”. Principal investigator: G. Papadomichelakis, (21/02/2022 – 30/11/2023). Funding: New agriculture new generation.
3. “Livestock Farming & Dairy Technology: Pilot training and advisory support network for goat and sheep farmers in the Rethymno Regional Unit”. Principal investigator: G. Papadomichelakis, (21/02/2022 – 30/11/2023). Funding: New agriculture new generation and Regional Unit of Rethymno.
4. Evaluation of chromium and nickel retention in growing pigs fed diets containing palygorskyte. Principal investigator: G. Papadomichelakis. Members: A.C. Pappas, K. Fegeros. Funding: industry.
5. Innovative nano-materials in animal nutrition: evaluation of the effects of selenium nanoparticles-loaded chitosan microspheres on meat quality. Principal investigator: G. Papadomichelakis. Members: A.C. Pappas, E. Giamouri, E. Fortatos. Funding: NSRF 2014-2020, EDULL “Supporting New Scientists – Cycle B”.
6. Chemical analysis of mushroom culture residues (10/2018-03/2019). Principal investigator: G. Papadomichelakis. Funding: industry.
7. Chemical analysis of soybean meal samples (01/2019-12/2019). Principal investigator: G. Papadomichelakis. Funding: industry.
8. Chemical analysis of compound feeds (10/2018-present). Principal investigator: G. Papadomichelakis. Funding: industry.
9. Chemical analysis of fattening pig feeds (10/2018-02/2019). Principal investigator: G. Papadomichelakis. Funding: industry.
10. Chemical analysis of soybean meal samples (03/2023-12/2024). Principal investigator: G. Papadomichelakis. Funding: industry.

11. Efficacy of crude glycerine in growing pig feeding (2010-2011). Principal Investigator: G. Papadomichelakis. Funding source: Research Committee, Agricultural University of Athens (12.000 €).

**Participation as member of the research team:**

1. «Actions to Support Entrepreneurship, Innovation and Maturation for the Utilization of Research Activity and New Products and Services developed at the Agricultural University of Athens». Principal investigator: Prof. E. Flemmetakis. Funding: Ministry of Development and Investments.
2. «Multi-efficacy assessment of a dietary plant bioactive formulation in pigs and poultry (11/2021-12/2023). Scientific coordinator: K.C. Mountzouris. Funding: industry.
3. «Acid whey from yogurt: Turning an environmental burden into innovative added value end products» Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK) Coordinator Prof. Politis (10/2020-4/2023)
4. «Reconstruction study of the agri-food sector in the fire-affected areas of Northern Evia - Livestock and processing». Coordinator Prof. P. Roussos, Funding: Captain Vasilis & Karmen Konstantakopoulou Foundation.
5. New agriculture for a new generation: recharging youth to revitalize the agriculture and food sector of the Greek economy. Activity: Livestock Farming and Dairy Technology. Coordinator of activity: G. Papadomichelakis. Funding: Stavros Niarchos Foundation. Partners: Rutgers State University of New Jersey, American Farm School, Agricultural University of Athens.
6. Use of emulsifiers in seabream nutrition (01/2019 – 03/2019). Principal investigator: Assoc. Prof. N. Karakatsouli. Funding source: industry.
7. LIFE 2015 Food for Feed: An Innovative process for transforming hotels food wastes into animal feed. (LIFE15ENU/GR/000257). Principal Investigator: G. Zervas. Funding: European Union.
8. Matrix value validations for selected feed enzymes in broilers (9/2015-12/2016). Principal investigator: Assist. Prof. K. Mountzouris. Funding source: industry. Members: G. Papadomichelakis, V. Paraskevas, I. Palamidi.
9. The effect of Sparta INNOLIVE (a by-product from olive production) inclusion on broilers diets on some biochemical and performance parameters (2015-2016). Principal Investigator: G. Zervas. Funding source: private organization. Members: G. Papadomichelakis, A.C. Pappas, E. Tsiplakou.
10. New Agriculture for a new generation (2015- 2016). Branch study on pig farming: current condition and perspectives. Institutional Project. Funding source: STAVROS NIARCHOS foundation.
11. Management of wild rabbit population in the island of Lemnos: the investigation of using rabbit game meat in human nutrition (2014-2015). Principal Investigator: I. Hadjigeorgiou. Funding source: Ministry of Rural Development and Food. Members: G. Papadomichelakis, A.C. Pappas, E. Zoidis, G. Danezis, C. Georgiou.
12. Evaluation of cultivating and processing techniques in different alfalfa hay (*Medicago sativa*) genetic materials for high quality livestock products (2015). Principal Investigator: I. Hadjigeorgiou. Funding source: NSRF 2007-2013. Members: G. Papadomichelakis, E. Fortatos, T. Hadjigeorgiou.
13. Innovation and Entrepreneurship in the AUA: Connecting scientific research with business ideas (2014-2015). Institutional project coordinated by Prof. S. Rozakis. Funding source: Municipality of Athens, NSRF 2007-2013. Subproject title: Device for digestion and vacuum filtration in gravimetric analyses by Dr. G. Papadomichelakis.
14. Efficacy of LANCER© 500 (Rare Earth Elements) in pig feeding (2009). Principal Investigator: G. Zervas. Funding source: University of Munich (Prof. W. Rambeck).

15. Sheep and goat sector in Crete- current conditions and perspectives (2008). Principal investigator: Prof. G. Zervas. Funding: Ministry of Rural Development.
16. Efficacy of 25-hydroxy-cholecalciferol (25-OH-D3) in growing pig feeding (2006). Principal Investigator: G. Zervas. Funding source: DSM Nutritional Products, Switzerland.
17. Effects of maternal undernutrition in physiological and productive traits of sheep offspring (2004-2006). Principal Investigator: S. Chadio. Funding source: Ministry of Education and European Union. Senior research fellow: G. Papadomichelakis.
18. Effects of flooring (slatted vs. straw litter) and nutrition on intramuscular fatty acid composition in pigs (2004). Principal Investigator: Prof. J. D. Wood, Division of Farm Animal Science, University of Bristol. Funding source: Meat and Livestock Commission.
19. Effects of breed and body condition score in the intramuscular fatty acid composition in sheep (2004). Principal Investigators: Prof. J. D. Wood and Alan V. Fisher, Division of Farm Animal Science, University of Bristol. Funding source: Ministry of Agriculture, Fisheries and Food.
20. Efficacy of antimycotoxic compounds in layer hen feeding (2003). Principal Investigator: K. Fegeros. Members: G. Papadomichelakis. Funding: industry.
21. Evaluation of the botanical composition, forage yield and grazing capacity in natural pastures of Nikiforos Municipality. Principal investigator: Prof. G. Zervas. Funding: Ministry of Rural Development.
22. Evaluation of the botanical composition, forage yield and grazing capacity in natural pastures of Paranesti Municipality. Principal investigator: Prof. G. Zervas. Funding: Ministry of Rural Development.

#### GENERAL KNOWLEDGE & SKILLS

- **English:** Excellent
- **French:** Good
- **PC software:** Microsoft OFFICE 365
- **Statistical software:** SAS, SPSS, STATISTICA, STATGRAPHICS, GENSTAT, MATLAB
- **Others:** least-cost formulation (C.O.P.A.N. ver. 1.00, NUT 3000, GL Feed Formulation), WINISI calibration in NIRS – Near Infrared Reflectance Spectroscopy, use of artificial neural networks (ANN, DNN) and support vector machines (SVM)

#### MEMBERSHIPS

- Hellenic Society for Animal Production (HSAP)
- European Association for Animal Production (EAAP)
- World Rabbit Science Association (WRSA)
- Geotechnical Chamber of Greece

#### CONFERENCES

Participation with 85 abstracts, posters, and short papers in national (44) and international (41) conferences.

#### INVITED SPEAKER IN MEETINGS & ROUNDTABLES

1. **G. Papadomichelakis** (2005) The nutrition of the rabbit. *Rabbit producers' conference in Heraklion, Crete, November 2005*. Organiser: K. Stamatopoulos, Feed industry EFYRA SA.
2. **G. Papadomichelakis** (2006) Nutrition of sheep and goats. *Volos sheep and goat breeders conference, July 2006*. Organizer: E. Roussos, Agronomist.

3. **G. Papadomichelakis** (2011) Contemporary trends in rabbit nutrition. *Conference to promote the nutritional value of rabbit meat, December 2011, Megara*. Organisation: A. Trompetas, Farma Trompetas SA.
4. **G. Papadomichelakis** (2013) Nutritional value of rabbit meat. *Food Expo 2013. Roundtable on Promoting the Nutritional Value of Rabbit Meat, September 2013, Metropolitan Expo*. Organization: A. Trompetas, Farma Trompetas SA.
5. **G. Papadomichelakis** (2019) Evaluation of commercial dog food formulations. *Kennel Week, January 12 & 13, 2019, Athens*. Organisation: Schnauzer Group of Greece.
6. **G. Papadomichelakis** (2022) The importance of rational animal nutrition and its contribution to the efficient operation of livestock farms. *Conference on modern approaches and practices for nutritional and food security. June 2022, Agricultural University of Athens, Athens*. Organization: GPA.

## PUBLICATIONS

### Doctoral Thesis:

1. **Papadomichelakis G.**, 2001. Effect of diet on semen characteristics of bucks. Agricultural University of Athens, Department of Animal Science, Laboratory of Animal Nutrition.

### Peer reviewed publications:

2. **Papadomichelakis G.**, Fegeros K., Xylouri-Frangiadaki E., Papadopoulos G. (2000) Effects of dietary energy and protein content on libido and semen characteristics of bucks. *Proceedings of 7<sup>th</sup> World Rabbit Congress Vol. C: 357-364*.
3. **Papadomichelakis G.**, Koutsotolis K., Zabeli G., Zervas G. (2002). The effect of lactating dairy ewes' diet supplementation with ALIMET (Liquid Methionine) on milk yield and milk composition. *Italian Journal of Animal Science 1: 301-305*.
4. **Papadomichelakis G.**, Fegeros K., Papadopoulos G. (2002) Effects of fibre source in rabbits' rations on soft faeces production and its contribution to nutrients and energy intake. *Animal Science Review 30: 61-72*.
5. **Papadomichelakis G.**, Fegeros K., Papadopoulos G. (2004) Digestibility and nutritive value of sugar beet pulp, soybean hulls, wheat bran and citrus pulp in rabbits. *Animal Science Review 32: 15-27*.
6. Chadio, S.E., Kotsampasi, B., **Papadomichelakis, G.**, Deligeorgis, S., Kalogiannis, D., Menegatos, I. and Zervas, G. (2007) Impact of maternal undernutrition on the hypothalamic–pituitary–adrenal axis responsiveness in sheep at different ages postnatal. *Journal of Endocrinology 192: 495-503*.
7. Simitzis, P.E., Charismiadou, M.A., Kotsampasi, B., **Papadomichelakis, G.**, Christopoulou, E.P., Papavlasopoulou, E.K., and Deligeorgis, S.G. (2009) Influence of maternal undernutrition on the behaviour of juvenile lambs. *Applied Animal Behaviour Science 116: 191-197*.
8. Kotsampasi, B., Balaskas, C., **Papadomichelakis, G.**, Chadio, S.E. (2009) Reduced Sertoli cell number and altered pituitary responsiveness in male lambs undernourished in utero. *Animal Reproduction Science 114: 135-147*.
9. Kotsampasi, B., Chadio, S., **Papadomichelakis, G.**, Deligeorgis, S., Kalogiannis, D., Menegatos, I. and Zervas, G. (2009) Effects of maternal undernutrition on the hypothalamic-pituitary-gonadal axis function in female sheep offspring. *Reproduction in Domestic Animals 44: 677-684*
10. Tsiplakou, E., Flemetakis, E., Kalloniati, C., **Papadomichelakis, G.**, Katinakis, P. and Zervas, G. (2009) Sheep and goats differences on CLA and fatty acids milk fat content in relation with mRNA stearyl-CoA desaturase and lipogenic genes expression in their mammary gland. *Journal of Dairy Research 76: 392-401*.

11. **Papadomichelakis, G.**, Karagiannidou, A., Anastasopoulos, V., Fegeros, K. (2010) Effect of high dietary digestible fibre content on the fatty acid composition of two muscles in fattening rabbits. *Livestock Science* **129**: 159-165.
12. **Papadomichelakis, G.**, Anastasopoulos, V., Karagiannidou, A., Fegeros, K. (2010) Effects of dietary digestible fibre and soybean oil level on the odd-numbered, branched-chain and hydroxy-fatty acids of caecotrophs in rabbits. *Animal Feed Science and Technology* **158**: 95-103.
13. **Papadomichelakis, G.**, Karagiannidou, A., Anastasopoulos, V., Fegeros, K. (2010) Effect of dietary soybean oil addition on the odd-numbered and branched-chain fatty acids in rabbit meat. *Meat Science* **86**: 264-269.
14. **Papadomichelakis, G.**, Mountzouris, K.C., Paraskevakis, N., Fegeros, K. (2011) Caecum odd-numbered and branched-chain fatty acids in response to dietary changes in growing rabbits. *Journal of Animal Physiology and Animal Nutrition* **95**: 707-716.
15. **Papadomichelakis, G.**, Mountzouris, K.C., Zoidis, E., Fegeros, K. (2011) Influence of dietary benzoic acid addition on nutrient digestibility and selected biochemical parameters in fattening rabbits. *Animal Feed Science and Technology* **163**: 207-213.
16. Pappas, A.C., Zoidis, E., **Papadomichelakis, G.**, Fegeros, K. (2012) Supranutritional selenium level affects fatty acid composition and oxidative stability of chicken breast muscle tissue. *Journal of Animal Physiology and Animal Nutrition* **96**: 385-394.
17. **Papadomichelakis, G.**, Zoidis, E., Fegeros, K. (2012) Dietarily induced changes in liver composition and weight of fattening rabbits. *Livestock Science* **144**, 190-196.
18. Tsiplakou, E., Chadio, S., **Papadomichelakis, G.**, Zervas, G. (2012) The effect of long term under- and over- feeding on milk and plasma fatty acids profile and on insulin and leptin concentrations of goats. *International Dairy Journal* **24**: 87-92.
19. **Papadomichelakis, G.**, Zoidis, E., Mountzouris, K.C., Lippas, T., Fegeros, K. (2012) Glycerine kinase gene expression, nutrient digestibility and gut microbiota composition in post-weaned pigs fed diets with increasing crude glycerine levels. *Animal Feed Science and Technology* **177**: 247-252.
20. Theodorou, G., **Papadomichelakis, G.**, Tsiplakou, E., Chronopoulou, R., Zervas, G., Politis, I. (2014) Association of dietary soy with expression of various pro-inflammatory genes in porcine phagocytes. *International Journal of Health, Animal Science and Food Safety* **1**: 1-8.
21. Simitzis, P., **Papadomichelakis, G.**, Tsiplakou, E., Theodorou, R., Zervas, G., Politis, I. (2014) Effect of dietary protein source on piglet meat quality characteristics. *International Journal of Health, Animal Science and Food Safety* **1**: 15-26.
22. Pantazis, P.A., Benekos, G., **Papadomichelakis, G.** (2014) Early weaning diets for gilthead sea bream (*Sparus aurata* L.) and their potential use in Hellenic marine fish hatcheries. *Aquaculture International* **22**: 1621-1636.
23. Simitzis, P.E., Babaliaris, C., Charismiadou, M.A., **Papadomichelakis, G.**, Goliomytis, M., Symeon, G.K., Deligeorgis, S.G. (2014) Effect of dietary hesperidin supplementation on growth performance, carcass traits and meat quality of rabbits. *World Rabbit Science* **22**: 113-121
24. Theodorou, G., **Papadomichelakis, G.**, Tsiplakou, E., Lampidonis, A.D., Chadio, S., Zervas, G., Politis, I. (2015). Effects of soybean meal or whey-based diets on lipid metabolism in weaned piglets. *Journal of Animal Physiology and Animal Nutrition* **99**: 92-99.
25. Mountzouris, K.C., Tsirotsikos, P., **Papadomichelakis, G.**, Schatzmayr, G., Fegeros, K. (2015) Evaluation of the efficacy of sequential administration of probiotics and phytogenics or their throughout combination in broiler nutrition. *Animal Production Science* **55**: 720-728.

26. **Papadomichelakis, G.**, Pappas, A.C., Zoidis, E., Mountzouris, K.C., Fegeros, K. (2015) Impact of feeding increasing crude glycerine levels on growth performance, glycerine kinase gene expression, nutrient digestibility and litter quality in broiler chickens. *Livestock Science* **181**: 89–95.
27. Symeon, G.K., Goliomytis, M., Bizelis, I., **Papadomichelakis, G.**, Pagonopoulou, O., Abas, Z., Deligeorgis, S., Chadio, S. (2015) Effects of gestational maternal undernutrition on growth, carcass composition and meat quality of rabbit offspring. *PLoS ONE* **10**: e0118259.
28. Tsiplakou, E., **Papadomichelakis, G.**, Sparaggis, D., Sotirakoglou, K., Georgiadou, M., Zervas, G. (2016) The effect of maternal or artificial milk, age and sex on three muscles fatty acid profile of Damascus breed goat kids. *Livestock Science* **188**: 142-152.
29. Pantazis, P.A., **Papadomichelakis, G.**, Karamaligas, J.C. (2016) Growth, survival and fatty acid content of *Astacus astacus* (Linnaeus 1758) in a water recirculation system fed a semi-purified diet. *International Journal of Innovative Studies in Aquatic Biology and Fisheries* **2**: 30-36.
30. Spilioti, M., Zoidis, E., **Papadomichelakis, G.**, Tsiboukas, K. (2017) Business plan: The establishment of a rabbit farm and the marketing of innovative rabbit meat products and sausages. *Proceedings of the 8th International Conference on Information and Communication Technologies in Agriculture, Food and Environment* **2030**: 447-454.
31. **Papadomichelakis, G.**, Zoidis, E., Pappas, A.C., Mountzouris, K.C., Fegeros, K. (2017) Effects of increasing dietary organic selenium levels on meat fatty acid composition and oxidative stability in growing rabbits. *Meat Science* **131**: 132-138.
32. Danezis, G.P., Pappas, A.C., Zoidis, E., **Papadomichelakis, G.**, Hadjigeorgiou, I., Zhang, P., Brusic, V., Georgiou C.A. (2017) Game meat authentication through rare earth elements fingerprinting. *Analytica Chimica Acta* **991**: 46-57.
33. **Papadomichelakis, G.**, Pappas, A.C., Hadjigeorgiou, I. (2017) Seasonal variations in the fatty acid composition of Greek wild rabbit. *Meat Science* **134**: 158-162.
34. Tsiplakou, E., **Papadomichelakis, G.**, Sparaggis, D., Sotirakoglou, K., Georgiadou, M., Zervas, G. (2018) The effects of rearing diet, sex and age on the fatty acid profile of Chios lambs. *Animal Production Science* **58**: 369-375
35. **Papadomichelakis, G.**, Zoidis, E., Pappas, Danezis, G., Georgiou, C.A., Fegeros, K. (2018) Dietary organic selenium addition and accumulation of toxic and essential trace elements in liver and meat of growing rabbits. *Meat Science* **145**: 383-388.
36. **Papadomichelakis, G.**, Zoidis, E., Pappas, Danezis, G., Georgiou, C.A., Fegeros, K. (2019) Blood and hair as non-invasive trace element biological indicators in growing rabbits. *World Rabbit Science* **27**: 21-30.
37. Mountzouris, K.C., Paraskevas, V., Griela., E., **Papadomichelakis, G.**, Fegeros, K. (2019) Phytogetic inclusion level effects on broiler carcass yield, meat antioxidant capacity, availability of dietary energy and expression of intestinal genes relevant for nutrient absorptive and cell growth-protein synthesis metabolic functions. *Animal Production Science*, **60**: 242-253.
38. Pappas, A.C., Tsiplakou, E., **Papadomichelakis, G.**, Charoutounian, S., Sotirakoglou K., Fegeros, K., G. Zervas, Mitsiopoulou, C. (2019) Effects of olive pulp addition to broiler diets on performance, selected biochemical parameters and antioxidant enzymes. *Journal of Veterinary Medicine Science*, **70**: 1687-1696.
39. **Papadomichelakis, G.**, Pappas, A.C., Tsiplakou, E., Symeon, G.K., Sotirakoglou, K., Mpekeli, V., Fegeros, K., Zervas, G. (2019) Effects of dietary dried olive pulp inclusion on growth performance and meat quality of broiler chickens. *Livestock Science* **221**: 115-122.



40. Zoidis, E., **Papadomichelakis, G.**, Pappas, A.C., Theodorou, G., Fegeros, K. (2019) Effects of selenium and cadmium on breast muscle fatty acid composition and gene expression of liver antioxidant proteins in broilers. *Antioxidants* **8**: 147-164
41. Georgiou, C.A., Tsagkaris, A., **Papadomichelakis, G.**, Papachristidis, C., Pappas, A.C., Danezis, G., Zoidis, E., Hadjigeorgiou, I., Zhang, P. (2019). Tissue distribution of rare earth elements in wild, commercial and backyard rabbits. *Meat Science* **153**: 45-50.
42. Georganas, A., Giamouri, E., Pappas A.C., **Papadomichelakis, G.**, Galliou, F., Manios, T., Tsiplakou, E., Fegeros, K., Zervas, G. (2020) Bioactive compounds in food waste. A review on the transformation of food waste to animal feed. *Foods* **9**: 291.
43. **Papadomichelakis, G.**, Fegeros, K. (2020) Reliability of acid-insoluble ash as internal marker for the measurement of digestibility in rabbits. *World Rabbit Science* **28**: 1-12.
44. Giamouri, E., Pappas, A.C., **Papadomichelakis, G.**, Tsiplakou, E., Sotirakoglou, K., Markakis, N., Galliou, F., Manios, T., Zentek, J., Lasaridi, K., Fegeros, K. & Zervas, G. (2021) The food for feed concept. Performance of broilers fed hotel food residues. *British Poultry Science* **62**: 452-458.
45. Pepe, A.E., Lelovas, P., Pachi, V.K., Halabalaki, M., Galanos, A., Mikou, P., Poutos, D.P., **Papadomichelakis, G.**, Kourkoulis, S., Pasiou, E., Mitakou, S., Karatzas, T., Triantafyllou, A., Dontas, I.A. (2021) Chios mastic gum consumption has a protective effect on ovariectomy induced bone loss in rats. *Preventive Nutrition and Food Science* **26**: 166–176.
46. Giamouri, E., Fortatos, S., Pappas, A.C., Yannopoulos, S.N. & **Papadomichelakis, G.** (2021) Effects of selenium nanoparticles-loaded chitosan microspheres on meat selenium content and oxidative stability in broiler chickens. *Acta Scientifica Veterinary Sciences* **3.11**: 27-38.
47. Fortatos, S., Giamouri, E., Pappas, A.C., Yannopoulos, S.N. & **Papadomichelakis, G.** (2021) Selenium nanoparticles-loaded chitosan microspheres as a dietary selenium source in rabbits: impact on meat selenium content and oxidative stability. *Acta Scientifica Veterinary Sciences* **3.11**: 45-56.
48. Zoidis, E., Simitzis, P.E., Kapantais, D., Katsoulas, P., Pappas, A.C., **Papadomichelakis, G.** & Goliomytis, M. (2022) Dietary orange pulp and organic selenium effects on growth performance, meat quality, fatty acid profile and oxidative stability parameters of broiler chickens. *Sustainability* **14**: 1534.
49. Giamouri, E., Pappas, A.C., **Papadomichelakis, G.**, Simitzis, P.E., Manios, T., Zentek, J., Lasaridi, K., Tsiplakou, E. & Zervas, G. (2022) The Food for Feed concept. Redefining the use of hotel food residues in broiler diets. *Sustainability* **14**: 3659.
50. Giamouri, E., **Papadomichelakis, G.**, Pappas, A.C., Simitzis, P.E., Galliou, F., Pablack, N., Zentek, J., Lasaridi, K., Fegeros, K., Manios, T., Tsiplakou, E. & Zervas, G. (2022) Meat quality traits as affected by the dietary inclusion of food waste in finishing pigs. *Sustainability* **14**: 6593.
51. Georganas, A., Giamouri, E., Pappas, A.C., **Papadomichelakis, G.**, Fortatos, S., Manios, T., Lasaridi, K., Fegeros, K., Tsiplakou, E. & Zervas, G. (2022) Redefining the future of catering waste application in animal diets. A review on the minimization of potential hazards in catering waste prior to application in animal diets. *Animal Feed Science and Technology* **289**: 115334.
52. Fortatos, E., Hadjigeorgiou, I., Fegeros, K., **Papadomichelakis, G.** (2022) The use of phytogenic silica as internal marker for the measurement of feed digestibility in rabbits. *Animal Feed Science and Technology* **292**: 115440.
53. Pantazis, P.A., Xydia, V., **Papadomichelakis, G.** (2022) Partial Substitution of Fishmeal and Fish Oil in a Semi-Purified Diet for Noble Crayfish, *Astacus astacus* (Linnaeus, 1758). *Journal of Shellfish Research* **41**: 255-261.

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55. Pappas, A.C., Charisi, A., Chantziantoniou Ch-M., Giamouri, E., Mitsiopoulou, C., Moschopoulos V., Christodoulou, C., **Papadomichelakis, G.**, Kotsampasi B., Mitsopoulos, I.K., Tsiplakou, E. & Bampidis, V.A. (2023) Effects of dietary pomegranate seed oil addition to diets for laying hens on fatty acid profile of eggs. *Animal Feed Science and Technology* **300**: 115643.
56. Giamouri, E., Fortatos, E., Pappas, A.C., **Papadomichelakis, G.** (2023) Comparative study between dietary nanoelemental, inorganic, and organic selenium in broiler chickens: effects on meat fatty acid composition and oxidative stability. *Sustainability* **15**: 9762.
57. Paraskeuas, V.V., **Papadomichelakis, G.**, Brouklogiannis, I.P., Anagnostopoulos, E.C., Pappas, A.C., Simitzis, P., Theodorou, G., Politis, I. & Mountzouris, K.C. (2023) Dietary inclusion level effects of yoghurt acid whey powder on performance, digestibility of nutrients and meat quality of broilers. *Animals* **13**: 3096.
58. Fortatos, E., Hadjigeorgiou, I., Mountzouris, K.C., **Papadomichelakis, G.** (2023) Real-time monitoring of fecal nitrogen excretion to the environment using near-infrared reflectance spectroscopy: a preliminary study in rabbits. *Environments* **10**: 210.
59. Spilioti, M., Karanikolas, P., **Papadomichelakis, G.**, Tsiboukas, K., Voloudakis, D. (2024) Upgrading Value Chains through Farm Advisory. *Proceedings* **94**: 39.
60. Eliopoulos, C., **Papadomichelakis, G.**, Voitova, A., Chorianopoulos, N., Haroutounian, S.A., Markou, G., Arapoglou, D. (2024) Improved Antioxidant Blood Parameters in Piglets Fed Diets Containing Solid-State Fermented Mixture of Olive Mill Stone Waste and Lathyrus clymenum Husks. *Antioxidants* **13**: 630.

#### Books and Book Chapters:

1. Georganas, A., Giamouri, E., Christodoulou, C., Mavrommatis, A., Zoidis, E., **Papadomichelakis, G.**, Simitzis, P.E. Tsiplakou E., Pappas, A.C. & Fegeros, K., 2022. Impact of bioactive compounds on animals and the environment. In: *Yildiz, G. & İzli, G., (Eds.) Bioactive Compounds and their Importance*, Nova Science Publishers, New York, USA, pp. 61-104.
2. Fegeros K., **Papadomichelakis G.**, Vassilopoulou E. Book titled: "Nutrition of Farm Animals" of the 2<sup>nd</sup> study cycle, Department of Animal Science, for Technical High Schools, Department of Agriculture, Food and Environment, Pedagogical Institute.

#### Popular articles:

1. **Papadomichelakis G.** The rabbit: diet, breeding facilities and equipment. *Agriculture-Livestock, Issue 6/2008, pp. 82-90, Agrotipos S.A. Publications.*
2. **Papadomichelakis G.** Organic acids and their salts in poultry nutrition. *Hellenic Poultry, Issue 29, pp. 26-28, Poultry Publications.*

#### ADMINISTRATIVE ACTIVITIES

- Elected Head of the Department of Animal Science (01/09/2022 – 31/08/2024).
- Member of the Senate of Agricultural University of Athens.
- Member of the Deanery of the School of Animal Biosciences.
- Head and member of Election Committees in the Department of Animal Science.
- Head of the Committee for training tours of students of the Department of Animal Science.
- Head of the Internet committee in the Department of Animal Science.

- Member of project evaluation committee according to article 38 of the Directive 2010/63/EU of the European Parliament and of the Council on the protection of animals used for scientific purposes.
- Member of several committees as per the needs of the Department.

## SOCIAL CONTRIBUTION

Participation *pro bono* in the following actions:

- "Reconstruction study of the agri-food sector in the fire-affected areas of Northern Evia - Livestock and processing" after the devastating fires.
- "Karditsa Consultancy Program" for the reconstruction of goat and sheep farming in Karditsa after the IANOS floods.
- As a member of a committee designated by the Ministry of Rural Development and Food, for the reconstruction of livestock farming in Thessaly after the catastrophic DANIEL floods.

## OTHER ACTIVITIES

- Reviewer of research papers in peer review Journals (indicatively): *Livestock Science, Lipids, Meat Science, Animal Feed Science and Technology, Journal of Animal Physiology and Animal Nutrition, Journal of Animal Research and Nutrition, Animal Production Science, World Rabbit Science, Journal of Food Composition and Analysis, Journal of Veterinary Science, Asian-Australasian Journal of Animal Science.*
- Main Member of the Certification Committee for organic products of QWays S.A.

## IMPACT OF PUBLISHED RESEARCH

- **Google Scholar:** h-index= 17, citations= 1051.
- **Scopus:** h-index= 15, citations= 761.