

# Skaperda Zoi Vasiliki

28/06/1994, Larissa, 41334, 6972989082, zoiskap94@gmail.com

## ACADEMIC CAREER

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- (07/2018 – 02/2022) **Ph.D, Laboratory of Physiology of Animal Organisms | University of Thessaly, Department of Biochemistry and Biotechnology**
- **Subject: toxicology of free radicals**
- (10/2016 - 03/2018) **Master's degree program in Toxicology | University of Thessaly, Department of Biochemistry and Biotechnology**
- Degree grade: 9.44
  - Master thesis title: Study of the antioxidant activity of extracts of the medicinal plants *Carthamus lanatus*, *Crepis sancta* and *Amaranthus blitum* using a combination of molecular and chemical techniques.
- (10/2012 - 10/2016) **Degree in Biochemistry and Biotechnology | University of Thessaly, Department of Biochemistry and Biotechnology**
- Degree grade: 8.07
  - Thesis title: Measurement of oxidative stress markers in broiler pig tissues after administration of feed enriched with whey protein.

## RESEARCH/PROFESSIONAL EXPERIENCE

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- (09/2020 – Today) **FOODOXYS PC Spin-off**
- **Responsibilities: Scientific Analyst Director**
- (09/2018 - 12/2018) **Agrocell company**
- **Responsibilities: physicochemical properties of plant samples analysis, GC\_MS**
- (01/2016 - Today) **Laboratory of Animal Physiology | University of Thessaly, Department of Biochemistry and Biotechnology, Larissa**
- **Responsibilities: western blot analysis, flow cytometry, cell cultures, PCR, RT-PCR, Ames test, redox biomarkers evaluation, comet assay**
- (07/2015 - 08/2015) **Biopathologist-Microbiologist Assistant | Laboratory of biopathology-microbiology "Biolegxos", Larissa | Practical work, NSRF 2007-2013**
- **Responsibilities: microbiological, biochemical, hematological, immunological, hormonal, molecular biology analyses**

## PUBLICATIONS

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### Articles in peer-reviewed scientific journals:

1. The impact of diet upon mitochondrial physiology. *International Journal of Molecular Medicine*, 2022.
2. Redox Status and Hematological Variables in Melatonin-Treated Ewes during Early Pregnancy under Heat Stress. *Veterinary Sciences*, 2022.
3. Association of Hypoglycemia with Biomarkers of Oxidative Stress and Antioxidants: An Observational Study. *Healthcare*, 2022.
4. Estimation of Redox Status in Military Pilots during Hypoxic Flight-Simulation Conditions—A Pilot Study. *Antioxidants*, 2022.
5. Biological effects of grape stem extracts on human cancer cell lines. *International Journal of Functional Nutrition*, 2022.
6. Reconceptualization of Hormetic Responses in the Frame of Redox Toxicology. *International Journal of Molecular Sciences*, 2021.

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7. Association of melatonin administration in pregnant ewes with growth, redox status and immunity of their offspring. *Animals*, 2021.
8. In vitro antioxidant properties of herb decoction extracts derived from Epirus, Greece. *International Journal of Functional Nutrition*, 2021.
9. Effects of a 12-Month Treatment with Glucagon-like Peptide-1 Receptor Agonists, Sodium-Glucose Cotransporter-2 Inhibitors, and Their Combination on Oxidant and Antioxidant Biomarkers in Patients with Type 2 Diabetes. *Antioxidants*, 2021.
10. Assessment of antioxidant and antimutagenic properties of red and white wine extracts in vitro. *Metabolites*, 2021.
11. Redox Biomarker Baseline Levels in Cattle Tissues and Their Relationships with Meat Quality. *Antioxidants*, 2021.
12. Patients Undergoing Surgery for Hip Fractures Suffer from Severe Oxidative Stress as Compared to Patients with Hip Osteoarthritis Undergoing Total Hip Arthroplasty. *Oxidative medicine and cellular longevity*, 2021.
13. Fasting-mediated metabolic and toxicity reprogramming impacts circulating microRNA levels in humans. *Food and Chemical Toxicology*, 2021.
14. A novel combined bioactivity/chemoactivity holistic approach for the evaluation of dietary supplements. *Food and Chemical Toxicology*, 2021.
15. An integrated approach for assessing the in vitro and in vivo redox-related effects of nanomaterials. *Environmental Research*, 2021.
16. Methodology for the biofunctional assessment of honey. *International Journal of Functional Nutrition*, 2021.
17. The Importance of Redox Status in the Frame of Lifestyle Approaches and the Genetics of the Lung Innate Immune Molecules, SP-A1 and SP-A2, on Differential Outcomes of COVID-19 Infection. *Antioxidants*, 2020.
18. Whey protein boosts the antioxidant profile of rats by enhancing the activities of crucial antioxidant enzymes in a tissue-specific manner. *Food and Chemical Toxicology*, 2020.
19. Nutritional habits and free grazing regimen of productive animals along with specific ingredients are influential factors for the antioxidant properties of milk: From farm to market. *Biomedical reports*, 2020.
20. Potential applications of NRF2 modulators in cancer therapy. *Antioxidants*, 2020.
21. Farm Animal Welfare and Meat Quality: Interrelation with Redox Status of Different Breeds-Abstract. HAICTA (congress), 2020.
22. The flavoring and not the nicotine content is a decisive factor for the effects of refill liquids of electronic cigarette on the redox status of endothelial cells. *Toxicology reports*, 2020.
23. Resveratrol, curcumin and gallic acid attenuate glyoxal-induced damage to rat renal cells. *Toxicology reports*, 2020.
24. Farm animal welfare, productivity and meat quality: Interrelation with redox status regulation and antioxidant supplementation as a nutritional intervention. *World Academy of Sciences Journal*, 2019.
25. Whey protein concentrate improves antioxidant capacity, faecal microbiota and fatty acid profile of growing piglets. *The Journal of Agricultural Science*, 2019.
26. Extracts from the Mediterranean Food Plants *Carthamus lanatus*, *Cichorium intybus*, and *Cichorium spinosum* Enhanced GSH Levels and Increased Nrf2 Expression in Human Endothelial Cells. *Oxidative medicine and cellular longevity*, 2018.
27. Phytochemical composition of the decoctions of Greek edible greens (chórta) and evaluation of antioxidant and cytotoxic properties. *Molecules*, 2018.
28. Effects of developmental stages and sex on the redox status of farm animals. *International journal of molecular medicine (congress)*, 2019.

## Announcements in refereed conference proceedings:

- HAICTA 2020, Zoi Skaperda, Paraskevi-Maria Nechalioti, Aristidis S. Veskoukis, Sotiria Makri, Efterpi Bouroutzika and Demetrios Kouretas. Farm animal welfare and meat quality: Interrelation with redox status of different breeds. 9th International Conference on Information and Communication Technologies in Agriculture, Food & Environment September 24-27, 2020, Thessaloniki, Greece [https://2020.haicta.gr/uploads/5/6/8/8/5688588/haicta2020\\_program\\_final.pdf](https://2020.haicta.gr/uploads/5/6/8/8/5688588/haicta2020_program_final.pdf)
- Effects of developmental stages and sex on the redox status of farm animals. Z Skaperda, A S Veskoukis, A Argyriadou, G Arsenos, D Kouretas. The 24th World Congress on Advances in Oncology and 24th International Symposium on Molecular Medicine 10-12 Οκτωβρίου 2019, Mystras Grand Palace Resort, Σπάρτη. [file:///C:/Users/%CE%96%CF%89%CE%AE/Desktop/abstract\\_book\\_2019.pdf](file:///C:/Users/%CE%96%CF%89%CE%AE/Desktop/abstract_book_2019.pdf)
- Passport for Greek meat: innovations and certification. Z Skaperda, E Kerasioti, A Veskoukis, D Kouretas. 6th Panhellenic Conference Meat and its products. Ioannis Vellidis Conference Center, Thessaloniki, 2019. [https://issuu.com/meatnews/docs/programma\\_17x24cm](https://issuu.com/meatnews/docs/programma_17x24cm)

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- Presentation of Master's thesis on: "Study of the antioxidant activity of extracts of the medicinal plants *Carthamus lanatus*, *Crepis sancta* and *Amaranthus blitum* using a combination of molecular and chemical techniques" at the 2nd International Symposium of Toxicology, Hotel Metropol, February 3-4, 2018, Larissa. [http://www.uth.gr/static/miscdocs/ekdiloseis/20180131\\_toxikologia.pdf](http://www.uth.gr/static/miscdocs/ekdiloseis/20180131_toxikologia.pdf)
- Presentation of Undergraduate Thesis: I Kafantaris, B Koukoumis, N Moschonas, A Hatzis, A Kypriotakis, Z Skaperda, D Galiakis, K Gerasopoulos, A Besios, N Goutzourelas, K Petrotos, S Kokkas, D Stagos, D Kouretas, "Winery and dairy byproducts improve antioxidant status and fecal microflora of piglets" at the 22nd Panhellenic Chemistry Conference, December 2-4, 2016, Thessaloniki. <https://drive.google.com/file/d/0B9U4a8jrDLpsWDFNS2dOTWljcms/view>

## ADDITIONAL INFORMATION

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**Languages:** Greek (Native), Romanian (Native), English (C2 - Michigan State University, University of Central Lancashire)

**Digital skills:** MS Office (Word, Excel, PowerPoint), SPSS, Graphpad

**Driver's license:** B' category