Vasiliki G. Sapanidou
DVM, MSc, PhD
Assistant Professor
Department of Animal Science
School of Animal Biosciences
Agricultural University of Athens

Short CV
And
List of Publications

Education

20/7/2009: Doctor of Veterinary Medicine (7,51/10) Aristotle University of Thessaloniki (A.U.Th).

2/2022-12/9/2023: Transinstitutional postgraduate course «Biomedical and Molecular Sciences in Diagnosis and Treatment of Diseases», Medical School, Democritus University of Thrace (9,48/10). Thesis: "Comparative Study of Pterostilbene end Erythropoetin Effects on motility, viability and acrosomal integrity of thawed bovine spermatozoa"

Doctoral thesis and postdoctoral research

18/11/2015: PhD "Excellent". Thesis: "The effect of Crocus Sativus L. carotenoids on bovine sperm quality characteristics and in vitro fertilization"

14/4/2020-4/2/2022: Postdoctoral research "The effect of crocin when it is used as an additive in semen extender on bovine sperm quality".

31/10/2023-21/3/2025: Postdoctoral research "Investigation of the effect of crocin when it is used as an additive in semen extender on cell signaling pathways of bovine spermatozoa".

Teaching experience

2017-2018, 2019-2020, 2023-2024: Temporary Teaching staff at the Veterinary School of A.U.Th. and the Department of Agriculture of University of Western Macedonia

Distinctions and Scholarships

2018: Participation at the 18o Award Book $\tau\eta\varsigma$ Royan International Institute: Biomedicine and stem cells

2012: Scholarship from the Research Committee of A.U.Th. as a PhD student

Research Projects.

Participation in 3 research projects with funding

Participation in conferences

– 27th Annual Conference of the European Society for Domestic Animal Reproduction, 12-14th September, Belgrade, Serbia, **2024**

- Joint Meeting Hellenic Physiology Society/ American Physiology Society. 5-6th October,
 Athens, Greece, 2023
- 25th Annual Conference of the European Society for Domestic Animal Reproduction, 28th
 September- 2nd October, Thessaloniki, Greece, 2022
- 17th Annual Conference of the European Society for Domestic Animal Reproduction, 12th 14th September, Bologna, Italy, 2013
- 16th Annual Conference of the European Society of Domestic Animal, 29th August- 1st
 September 2012

Reviewer

- 1. Acta Veterinaria Eurasia
- 2. Animal Reproduction Science
- 3. Food and Chemical Toxicology
- 4. Journal of the Hellenic Veterinary Medical Society
- 5. Scientific Reports
- 6. Journal of Nanobiotechnology

List of Publications

ORCID-ID: 0000-0001-7079-4238

SciProfiles: 3075225

Scopus Author ID: 55557548900

A. In peer review journals

- V Sapanidou, MP Tsantarliotou, K Feidantsis, EE Tzekaki, G Kourousekos, SN Lavrentiadou (2025). Supplementing Freezing Medium with Crocin Exerts a Protective Effect on Bovine Spermatozoa Through the Modulation of a Heat Shock-Mediated Apoptotic Pathway. *Molecules* 16: 30, 1329.
- C Chavas, VG Sapanidou, K Feidantsis, SN Lavrentiadou, D Mavrogianni, I Zarogoulidou, DJ Fletouris, MP Tsantarliotou (2024) Treatment with Pterostilbene Ameliorates the Antioxidant Status of Bovine Spermatozoa and Modulates Cell Death Pathways. Antioxidants 22:1437.
- 3. **V Sapanidou**, B Asimakopoulos, T Lialiaris, SN Lavrentiadou, K Feidantsis, G Kourousekos, MP Tsantarliotou (**2024**). The Role of Erythropoietin in Bovine Sperm Physiology. Animals 26: 2175.
- 4. S Lavrentiadou, V Sapanidou, E Tzekaki, I Margaritis, M Tsantarliotou (2023). Melatonin protects bovine spermatozoa by reinforcing their antioxidant defenses. Animals 13: 3219. https://doi.org/10.3390/ani13203219. Invited paper in Special Issue "Management of Stress Impact on Domestic Animals Physiology and Welfare".
- 5. V Sapanidou, M Tsantarliotou, S Lavrentiadou, E Tzekaki, I Efraimidis, T Lialiaris, B Asimakopoulos (2023). The beneficial effects of pterostilbene on post-thawed bovine spermatozoa. *Animals*. 13, 2713. Invited paper in Special Issue: "Frozen Semen in Ruminants".
- V Sapanidou, M Tsantarliotou, S Lavrentiadou (2023). A review of the use of antioxidants in bovine sperm preparation protocols. *Animal Reproduction Science*, 251, 107215.
- 7. **V Sapanidou**, S Lavrentiadou, M Errico M, D Fletouris, I Panagiotidis, I Efraimidis, I Zervos, I Taitzoglou, B Gasparrini, M Tsantarliotou (**2022**). The addition of crocin in the freezing medium extender improves post-thaw semen quality. *Reproduction in Domestic Animals* 57, 269–276.

- 8. M Tsantarliotou, S Lavrentiadou, D Psalla, I Margaritis, M Kritsepi-Konstantinou, I Zervos, M Latsari, V Sapanidou, I Taitzoglou, Z Sinakos (2019). Suppression of plasminogen activator inhibitor-1 (PAI-1) activity by crocin ameliorates lipopolysaccharide-induced thro-mbosis in rats. Food & Chemical Toxicology 125.
- 9. M Tsantarliotou, V Sapanidou (2018). The importance of antioxidants in sperm quality and in vitro embryo production. Invited article in Journal of Veterinary Andrology 3, 1-13.
- V Sapanidou, I Taitzoglou, I Tsakmakidis, I Kourtzelis, D Fletouris, A Theodoridis, S Lavrentiadou, M Tsantarliotou (2016). Protective effect of crocetin on bovine spermatozoa against oxidative stress during in vitro fertilization. Andrology, 4, 1138– 1149.
- 11. **V Sapanidou**, I Taitzoglou, I Tsakmakidis, I Kourtzelis, D Fletouris, A Theodoridis, I Zervos, M Tsantarliotou (**2015**). Antioxidant effect of crocin on bovine sperm quality and in vitro fertilization. Theriogenology, 84, 1273–1282.
- 12. **V Sapanidou**, I Margaritis, N Siahos, K Arsenopoulos, E Dragatidou, I Taitzoglou, I Zervos, A Theodoridis, M Tsantarliotou (**2014**). Antioxidant effect of a polyphenolrich grape pomace extract on motility, viability, and lipid peroxidation of thawed bovine spermatozoa. J. Biol. Res (Thessaloniki, Greece), 21(1), 19.
- 13. M Tsantarliotou, T Poutahidis, D Markala, G Kazakos, V Sapanidou, S Lavrentiadou, I Zervos, I Taitzoglou, Z Sinakos (2013). Crocetin administration ameliorates endotoxin-induced disseminated intravascular coagulation in rabbits. Blood coagulation & fibrinolysis: an international journal in haemostasis and thrombosis, 24(3), 305–310.

Corresponding author

B. In conferences

- 1. Ch Chavas, **V Sapanidou**, I Zarogoulidou, S Lavrentiadou, D Mavrogianni, P Drakakis, M Tsantarliotou (**2024**). Pterostilbene augments the antioxidant capacity of thawed bovine spermatozoa. 27th Annual Conference of the European Society for Domestic Animal Reproduction, 12-14th September, Belgrade, Serbia (Poster Presentation)
- 2. **V Sapanidou**, M Tsantarliotou, S Lavrentiadou, E Tzekaki, I Efraimidis, T Lialiaris, B Asimakopoulos (2023). Joint Meeting Hellenic Physiology Society/ American Physiology Society. Erythropoietin promotes in vitro sperm capacitation of bovine spermatozoa.5th-6th October, Athens, Greece. (Oral presentation). *Physiological Reviews*.

- 3. S Lavrentiadou, **V Sapanidou**, I Margaritis, I Panagiotidis, M. Tsantarliotou (**2022**). Melatonin increases viability of spermatozoa and provides protection against post-thawing hydrogen peroxide-induced oxidative stress. 25th Annual Conference of the European Society for Domestic Animal Reproduction, 28th September-2nd October, Thessaloniki, Greece (Poster Presentation). *Reproduction in Domestic Animals* 57 (4), 101-2.
- 4. S Lavrentiadou, M Errico, **V Sapanidou**, A Arseniadou, I Panagiotidis, I Efraimidis I, I Zervos, I Taitzoglou, B Gasparrini, M Tsantarliotou (**2021**). Addition of crocin in the freezing medium improves bovine sperm characteristics. 25th Annual Conference of the European Society for Domestic Animal Reproduction, 12th-17th September, Thessaloniki, Greece (Poster Presentation). *Reproduction in Domestic Animals* 57 (1), 109.
- 5. F Piscopo, **V Sapanidou**, R Esposito, S Lavrentiadou, V Longobardi, B Gasparrini, M Kosior, M Tsantarliotou (**2020**). Effect of a pro-fertility mix on frozen-thawed sperm quality in bovine. Association for Applied Animal Andrology, Bologna, Italy (Poster Presentation). **Animal Reproduction Science** 220:106375.
- 6. M Tsantarliotou, **V Sapanidou,** I Margaritis, MA Karatzia, I Taitzoglou, S Lavrentiadou, I Zervos (**2016**). Beneficial effects of crocin against H2O2-induced oxidative stress on bovine sperm motility and viability. 10th Biennale Conference 24th-26th June, Tours, France (Poster Presentation) *Animal Reproduction Science* 169:119.DOI: 10.1016/j.anireprosci.2016.03.059
- 7. **V Sapanidou**, D Fletouris, I Kourtzelis, Z Abas, I Taitzoglou, I Tsakmakidis, I Zervos, M Tsantarliotou (**2013**). Crocin reduced oxidative stress and DNA damage of frozen/thawed bull spermatozoa. 17th Annual Conference of the European Society for Domestic Animal Reproduction, 12th-14th September, Bologna, Italy (Oral Presentation). *Reproduction in Domestic Animals* 48(s1):69
- 8. **V Sapanidou**, Z Abas, I Taitzoglou, I Tsakmakidis, I Zervos, S Lavrentiadou, M Tsantarliotou (**2012**). Crocin promotes in vitro sperm capacitation of bovine sperm. *Fertility & Antioxidants*, 6-7th December, Paris, France (Oral Presentation).
- 9. M Tsantarliotou, V Sapanidou, Z Abas, I Taitzoglou, S Lavrentiadou, I Zervos (2012): Melatonin prevents the reduction of bovine sperm motility under H2O2 induced oxidative stress. *Fertility & Antioxidants*, 6th-7th December Paris, France (Poster Presentation).
- 10. **V Sapanidou**, I Taitzoglou, I Tsakmakidis, Z Abas, I Zervos, S Lavrentiadou, M Tsantarliotou (**2012**). Crocin improves frozen/thawed bovine sperm motility and viability. 16th Annual Conference of the European Society for Domestic Animal Reproduction, 29th August-1st September, Dublin, Ireland (Poster Presentation). *Reproduction in Domestic Animals* 47 (5): 108
- 11. M Tsantarliotou, M De Blasi, S Lavrentiadou, V Sapanidou, L Boccia, S Di Francesco, B Gasparrini (2011). Plasminogen activator activity in buffalo in vitro matured oocytes after vitrification-warming. Annual Conference of the International Embryo Transfer Society, 7th—

- 10th January, Phoenix, Arizona, USA (Poster Presentation). *Reproduction Fertility and Development* 24, 134, 10.1071/RDv24n1Ab46.
- 12. M De Blasi, M Rubessa, G Albero, S Lavrentiadou, V Sapanidou, B Gasparrini, M Tsantarliotou (2011): Reactive oxygen species in vitrified bovine in vitro-matured oocytes. (Poster Presentation). Annual Conference of the International Embryo Transfer Society, 7th—10th January, Phoenix, Arizona, USA (Poster Presentation). *Reproduction Fertility and Development* 24, 134, 10.1071/RDv24n1Ab46.
- 13. M Tsantarliotou, Th Poutahidis, D Markala, G Kazakos, V Sapanidou, S Lavrentiadou, I Zervos, I Taitzoglou, Z Sinakos (2011). Endotoxin-induced disseminated intravascular coagulation (DIC) in rabbits: Crocetin prevents plasminogen activator activity (PAA) in kidneys. Proceedings: *Molecular and Cellular Biology of Plasminogen Activation*. 9-13 July, Cambridge, UK.
- 14. G Kazakos, I Savvas.,T Anagnostou ,E Flouraki., K Pavlidou, **V Sapanidou** (**2010**). Use of a eutectic mixture of lidocaine 2.5% and prilocaine 2.5% as a local anesthetic in rabbits. Association of Veterinary Anaesthetists, Autumn Meeting, 2nd-4th September, Santorini, Greece (Poster Presentation). *Veterinary Anaesthesia and Analgesia* 38, 27

C. Book Chapters

1. Chapter 41-44, Translation in Greek. "Cunningham's Textbook of Veterinary Physiology"

D. Guest Editor

1. Special Issue "Modulation of Biochemical, Cellular and Physiological Mechanisms in Response to Oxidative Stress in Animals", **Antioxidants**