

GEORGIOS S. AMIRIDIS
Professor
“Physiopathology of ruminant reproduction”

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EDUCATION

2006 DipECBHM - Founding Diplomate
2002 DipECAR – Founding Diplomate
1996 PhD, Glasgow University Veterinary School, Scotland, UK
1986 DVM, Veterinary School, Aristotle University of Thessaloniki,
Greece.

PROFESSIONAL ACTIVITIES

1988-1993	private practitioner
1996-1998	private practitioner
1998-2000	Adjunct Assistant Prof –Vet. Fac.Univ. of Thessaly
2000-2009	Assistant Prof –Vet Faculty Univ. of Thessaly
2009-2013	Associate Prof - Vet Faculty Univ. of Thessaly
2013 –to date	Professor –Vet Faculty Univ. of Thessaly (927/26-8-13/τΓ)

Undergraduate teaching

Lectures, tutorials and clinical teaching in bovine physiology – physiopathology of reproduction, bovine obstetrics and reproduction, biotechnology of reproduction and reproduction management in cattle at the Veterinary Faculty, University of Thessaly

Postgraduate teaching

Invited lectures in other Universities:

Agricultural University of Athens (2005, to date)
St Istvan University of Budapest, Veterinary School (2009, 2010).

RESEARCH

Research interests

1. Environmental effects on cattle fertility
2. Developmental embryology
3. Assisted reproductive technologies in ruminants
4. bovine reproductive endocrinology
5. pharmacological control of estrous cycle in ruminants

Research grants

1. Increasing dairy cows fertility through identification and exploitation of genetically tolerant individuals ‘THE SUMMER COW’ *Coordinator and project leader [2018 -2021 Research Create Innovate, National Strategic Reference Framework (in Greek: ΕΣΠΑ/ESPA) GSRT – EU, 689.160€]*

2. Research studies on the use of alternative proteinaceous feeds livestock production aiming to reduce production cost and to apply innovative processes for the production of traditional product with superior quality characteristics GREEN FEEDS. *Partner group leader [2018 -2021 Research Create Innovate, National Strategic Reference Framework (in Greek: ΕΣΠΑ/ΕΣΠΑ) GSRT – EU, 147.500€]*
3. Development and application of state-of-the-art method of sex preselection in sheep aiming at the maintenance and increase of genetic base and productivity of high genetic value indigenous sheep breeds – AMNOSELECT. *Partner group leader [2018 -2021 Research Create Innovate, National Strategic Reference Framework (in Greek: ΕΣΠΑ/ΕΣΠΑ) GSRT – EU, 108.910€]*
4. Effects of specific proteolytic enzymes on the developmental capacity of bovine embryos produced in vitro (2010 *Heraclites II –Greek Ministry of Education, 45000€*)
5. Association between feeding practices and fertility parameters in Karagouniko sheep (2009 *Prefecture of Karditsa, 9403€*)
6. Study of biosecurity measures in Greek dairy farms (2009 *Dairy Industry - OLYMPOS SA 101750 €*)
7. New protocols for treating the repeat breeder cow (2008 *GEROLYMATOS SA 11000€*)
8. Reproductive management of dairy herds (2006 *Dairy Industry - OLYMPOS SA, 128458 €*)
9. Repeated in vivo oocyte collection in vitro embryo production. Study of the follicular environment in oocyte quality in juvenile and adult ruminants” (2006 *PENED European Union, GSRT 98576 €*)
10. Effects of melatonin on the follicular environment of indigenous sheep of Greece and Hungary (2005 *European Union, GSRT Bilateral cooperation between Greece – Hungary 11740*)
11. Ovulation synchronization in Greek dairy sheep. (2004 *Intervet Hellas SA 8000 €*)
12. Effects of melatonin on the quality of oocyte quality of anestrus indigenous Greek sheep. (2004 *CEVA Hellas Ltd, 4500 €*)
13. Effects of Cefquinome administration on prevention and treatment of bovine endometritis (2002 *Intervet Hellas SA 8000€*)
14. Embryo transfer in cows – Training of Vet. Surgeons (2001 *European Union, PHARE cross border cooperation Greece – FYROM 7347 €*).

Supervision of PhD theses

1. Irene Valasi “*Follicular aspiration in ewe lambs: quality assessment of collected oocytes and evaluation of reproductive performance of the donor*” (examined 2006)
2. I Dimitriadis “*Modification of the in vitro bovine embryo production media using guaiazulene and melatonin*” (examined 2006)
3. Th Papanikolaou “*Effect of plasminogen activators/plasmin system on bovine in vitro embryo production*” (examined 2007)
4. F Krania “*Effects of specific proteolytic enzymes on the developmental competence and the quality of bovine embryos produced in vitro*” (examined 2015)
5. TM Chouzouris “*The role of ghrelin in reproduction of dairy cows*’ (Examined 2018)
I Nanas ‘*Effects of heat stress on cow fertility* (examined 2021)
6. C Stamberna effects of heat stress on developmental competence of bovine oocytes and early embryos (in progress)

PRIZES AND DISTINCTIONS

Patent

A simple devise for ovarian cyst ablation in the cow. *Greek industrial patent organization 2008.*

Prize

Accolade *Pro Negotio Universitatis*, Veterinary School, St Istvan University Budapest (2012)

Conference organizer

2008 COST FA0702 –GEMINI –maternal Interactions with gametes and embryos – Volos –Greece

2014 12th Greek Farm Animal Veterinary Congress- Ioannina, Greece

Referee in Scientific journals:

Acta Vet Brno, Acta Vet Hungarica, Animal, Animal Reproduction Science, Journal of Dairy Science, J. of Dairy Research, Journal of the Hellenic Veterinary Medical Society, Reproductive Biology & Endocrinology, PLOS one, Reproduction in Domestic Animals, Reproduction Fertility & Development, Turkish Veterinary Journal, Theriogenology

PUBLICATIONS

81 Full papers, > 150 conference abstracts

1. Kalemkeridou M, Nanas I, Moutou K, **Amiridis GS**, Tsipourlianos A, Dovolou E, Mamuris Z, Giannoulis T. (2022) Genetic diversity and thermotolerance in Holstein cows: Pathway analysis and marker development using Whole Genome Sequencing. *Reproduction in Domestic Animals* (in press)
2. Stamperna K, Giannoulis Th, Canon-Beltran C, Dovolou E, Kalemkeridou M, Nanas I, Rizos D, Moutou KA, Mamuris Z, **Amiridis GS** (2022) Oviductal epithelial cells transcriptome and extracellular vesicles characterization during thermoneutral and heat stress conditions in dairy cows. *Theriogenology* 187 (2022), 152-163.
3. Stamperna K, Giannoulis T, Dovolou E, Kalemkeridou M, Nanas I, Dadouli K, Moutou K, Mamuris Z, **Amiridis GS** (2021) The effects of Heat Shock Protein 70 Addition in the Culture Medium on the Development and Quality of In Vitro Produced Heat Shocked Bovine Embryos. *Animals*,11(12), 3347;
<https://doi.org/10.3390/ani11123347>

4. Nanas I, Dovolou E, Psimadas D, Dadouli K, Chouzouris TM, Satra M, Georgoulis P, **Amiridis GS** (2021). Age, gestational and heat stress effects on ghrelin secretion in dairy cattle. *Theriogenology* 176 (2021) 82-93.
5. Nanas I, Barbagianni M, Dadouli K, Dovolou E and Amiridis GS. (2021) Ultrasonographic findings of the corpus luteum and the gravid uterus during heat stress in dairy cattle. *Reprod Dom Anim* 56, 1329-1341
6. Stamperna K, Dovolou, 'Giannoulis T, Kalemkeridou M, Nanas I, Dadouli K, Moutou K, Mamuris Z, **Amiridis GS** . (2021) Developmental competence of heat stressed oocytes from Holstein and Limousine cows matured in vitro. *Reprod Dom Anim* 56, 1302-131
7. Stamperna K, Giannoulis T, Dovolou E, Kalemkeridou M, Nanas I, Dadouli K, Moutou K, Mamuris Z, **Amiridis GS** (2021) Heat shock protein 70 improves in vitro embryo yield and quality from heat stressed bovine oocytes. *Animals*, **2021**, *11*, 1794.
<https://doi.org/10.3390/ani11061794>
8. Nanas I, Chouzouris TM, Dovolou E, Dadouli K, Stamperna K, Kateri I, Barbagianni M, **Amiridis GS**. (2021) Early embryo losses, progesterone and pregnancy associated glycoproteins levels during summer heat stress in dairy cows. *J Thermal Biol* 98, 102951
9. Nanas I, Chouzouris TM, Dadouli K, Dovolou E, Stamperna K, Barbagianni M, Valasi I, Tsiaras A, **Amiridis GS** (2020) A study on stress response and fertility parameters in phenotypically thermotolerant and thermosensitive dairy cows during summer heat stress. *Reprod Dom Anim*;55:1774–1783
10. Stamperna K, Giannoulis T, Nanas I, Kalemkeridou M, Dadouli K, Moutou K, **Amiridis GS**, Dovolou E. (2020) Short term temperature elevation during IVM affects embryo yield and alters gene expression pattern in oocytes, cumulus cells and blastocysts in cattle. *Theriogenology* 156,36-45