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25 years after Dolly: update on long term effects of embryo biotechnologies

Pascale Chavatte-Palmer

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25th ANNUAL ESDAR CONFERENCE 2022



28 Sep - 2 Oct 2022
Thessaloniki Concert Hall
Thessaloniki, Greece

www.esdar2022.org

Conference Programme

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25th
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Welcome Letter

Dear colleagues,

On behalf of the local organizing committee, it is our great pleasure to welcome scientists from all over the world to attend the **25th ESDAR Conference**, which will be held for first time in **Thessaloniki, Greece** from **the 28th of September to the 2nd of October 2022**.

The conference is organized under the auspices of ESDAR, Aristotle University of Thessaloniki (Faculty of Veterinary Medicine) and International Hellenic



University (Department of Agriculture). The annual ESDAR conference aims to bring together scientists from around the world with the objective to present and discuss recent advances in the field of reproductive biology, exchange break-through ideas relating biotechnology and physiology, in addition to the traditional veterinary medicine, physiology and pathology of animals' reproduction. For this purpose, we invite you to attend our conference as a presenter or a participant.



The scientific program of the main conference includes plenary session with key-note lectures, oral communications (Young scientist competition) and workshops held in parallel sessions and posters. Attending the conference will provide a perfect forum for networking and vivid scientific discussions with the global veterinary community.

Significant scientific knowledge-sharing and the special atmosphere of the ESDAR conference will make your trip to Thessaloniki, worth it. Being at a crossroad joining Europe and Asia, the city of Thessaloniki is a multi-cultural metropolis, that within a few minutes' walk one can reach monuments representing 2,300 years of history, fifteen of which are listed at the UNESCO World Heritage Sites. Thessaloniki is one of the oldest European cities that combines its thousand years old heritage and the architectural marvels with the Greek, Roman, Byzantine, Ottoman and Jew history, all of which contribute to its uniqueness. Named after Great Alexanders' sister, Thessaloniki provides a waterfront along Thermaikos Gulf of about 5 Km that residents and visitors can enjoy a walk on, while experiencing different flavors combined on the same table in the capital of gastronomy. The city offers excellent conference facilities and outstanding hospitality, restaurants and bars that will ensure that the social aspects of the conference will not disappoint you.

On behalf of the local organizing committee, we hope that you will enjoy the annual ESDAR conference.

Dr Constantinos M. Boscós, Professor
Aristotle University of Thessaloniki
President of the local organizing committee

Dr Aristotelis G. Lymberopoulos, Professor
International Hellenic University
Vice-President of the local organizing committee

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Division of Reproduction
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Prof. Andres Valdmann, Member

Chair of Animal Breeding and Biotechnology
Institute of Veterinary Medicine
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Local Organising Committee

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Professor
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School of Veterinary Sciences
Aristotle University of Thessaloniki

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Assistant Professor
School of Veterinary Sciences
Aristotle University of Thessaloniki

Scientific committee

(alphabetical order)

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Animal Breeding and Biotechnology
Institute of Veterinary Medicine and Animal
Sciences, Tartu, Estonia

Ulrich Witschi

Swissgenetics
Switzerland



P1. Antimicrobial use and resistance in food-producing animals - How can we protect the efficacy of antibiotics for reproductive diseases?

Prof Ulf Magnusson

Professor of Animal Reproduction, Department of Clinical Sciences at SLU, Sweden

Ulf Magnusson is a licensed Swedish Veterinarian, Diplomate of the European College of Animal Reproduction and is holding a position as professor of Animal Reproduction at the Department of Clinical Sciences at SLU. UM's current research activities deals with infectious diseases in livestock that affects reproduction and might be transmissible to humans (zoonotic). The latter holds also true for his work on antimicrobial resistance. UM has a broad international network and most of his research is conducted in low/middle-income countries in Asia and Africa. He is teaching veterinary students in large animal reproduction. Leader for the Animal health- "Flagship" activities within the CGIAR program "CRP Livestock", 2017-. Member of the Guiding group for the Global Agenda for Sustainable Livestock 2012- and leading the action Network on Antimicrobial resistance – LAMP 2017- . Member of the Steering group for the CGIAR Antimicrobial Research Hub, 2019.



P2. The negative impact of lameness on dairy cow reproduction

Prof Georgios Tsousis

Associate Professor, Faculty of Veterinary Medicine, Aristotle University of Thessaloniki, Greece

Prof. Georgios Tsousis graduated from the School of Veterinary Medicine of the Aristotle University of Thessaloniki in 2002 and completed his doctoral thesis in the University of Veterinary Medicine Hannover in 2005. From 2005 to 2008 he worked in the Clinic for Cattle in Hannover as a scientific cooperator, being involved in the everyday clinical practice. He returned in Thessaloniki in 2009 as a lecturer and currently holds the position of Associate Professor. He has co-supervised or supervised six doctoral thesis. He is the author of 40 publications and over 70 congress publications. He is currently supervising projects regarding dystocia in dairy heifers, extended lactations, associations between cattle lameness and fertility and early detection of lameness with the use of machine learning techniques.



P3. Suppression of reproductive behavior and gonadal function in horses - an update

Prof. Dr. Christine Aurich

Professor and Head of the "Centre for Artificial Insemination and Embryo Transfer", University of Veterinary Medicine, Vienna, Austria

DVM Hannover, Germany 1990; Dr med vet Hannover, Germany 1992; Dr med vet habil Hannover, Germany 1997. Christine Aurich is the head of the Centre for Artificial Insemination and Embryo Transfer and the Graf Lehndorff Institute Vetmeduni Vienna, Austria. She is a Diplomate of the European College of Animal Reproduction (ECAR). Her current research focuses on gamete physiology, assisted reproductive technologies and pregnancy in the horse. She is the author of more than 200 scientific articles in international journals and editor of a German-language textbook on equine reproduction. She is Co-Editor in Chief of Animal Reproduction Science. Christine is also the current chair of the scientific board of the International Symposium for Equine Reproduction (ISER).



P4. Maladaptation to the transition period and consequences on fertility of dairy cows

Osvaldo Bogado Pascottini DVM, PhD

University of Ghent, Department of Internal Medicine Reproduction and Population Medicine, Merelbeke, Belgium

University of Antwerp, Gamete Research Center, Laboratory for Veterinary Physiology and Biochemistry, Department of Veterinary Sciences, Wilrijk, Belgium

Osvaldo grew up in a beef farm in Paraguay, where his interest in bovine reproduction began. He completed his Doctor of Veterinary Medicine degree in 2010 at the National University of Asuncion (Paraguay). In 2016, Osvaldo concluded his Ph.D. at Ghent University (Belgium). In 2017, he started his first post-doctoral fellowship at the Ontario Veterinary College of the University of Guelph (Canada), where he focused on improving uterine health in dairy cattle by controlling inflammation around the time of parturition. As of 2019, Osvaldo is a post-doctoral fellowship in a joint project between the University of Antwerp and Ghent University (Belgium). His current research aims to demystify the role of extracellular vesicles in pre-implantation embryo development in a dairy cow model. Osvaldo is author of over 50 (A1) peer-reviewed publications, half of them as the first author.



P5. 25 years after Dolly: update on long term effects of embryo biotechnologies

Dr Pascale Chavatte-Palmer

Director of mixed Research Université Paris-Saclay, UVSQ, INRAE, Ecole vétérinaire d'Alfort – BREED – Biology of Reproduction, Environment, Epigenetics and Development, France

Initially trained as a veterinarian, I specialized in animal, and particularly equine reproduction with a focus on pregnancy and neonatology through my internship, residency and PhD, post-doctoral fellowship and initial position. After my recruitment at AgroParisTech and subsequently INRAE in France, I have been more widely focusing on fetoplacental development and the developmental origins of health and disease (DOHaD), with a dual purpose in agriculture and as biomedical models. The aim of my research is to understand the role of the placenta in the programming of long term post-natal health, in the context of the developmental origins of health and diseases. I have recently taken the lead of the new Biology of Reproduction, Environment, Epigenetics and Development (BREED) research unit focusing on the development of the mammalian embryo from the formation of the egg cell to birth and development to adulthood. Meanwhile, I pursue my own research programs on effects of maternal and post-natal breeding conditions, including nutrition, on metabolic and osteoarticular outcomes in the foal. I have served as PI or co-PIU to several national and European research projects. CV and publications: <https://hal.archives-ouvertes.fr/search/?q=chavatte-palmer>.



WS1. Impact of sperm chromatin on embryogenesis

Prof. Marc Yeste

ICREA Academia Professor, Centre for Reproductive Biotechnology (TechnoSperm), Department of Biology, University of Girona, Spain

Marc is an ICREA Academia Professor at Girona University, and Director at TechnoSperm, Centre for Reproductive Biotechnology. He is Editor-in-Chief of Animal Reproduction Science; Senior Editor of Scientific Reports; and Associate Editor of Reproduction, Fertility and Development, Frontiers in Physiology, and Frontiers in Endocrinology. Marc's track-record includes more than 320 publications: >200 papers and >100 abstracts in SCI/JCR-indexed journals, mostly Q1-ranked. In addition, he has authored 12 book chapters (editor in three), and >200 contributions to congresses (>25 as an invited speaker) and is a patent inventor. He has participated in more than 100 research grants and contracts with companies (national and international), including funding from the European Commission, retaining the PI role in >35. Marc has supervised 10 PhD students, five post-docs, 23 MSc and >40 undergraduate students. He is a Fellow of the Higher Education Academy, the Royal Society of Biology, and of the Young Academy of Europe.



WS2. Mechanisms of infection and immunity in the bovine reproductive tract – What do we learn from clinical studies?

Dr. Karen Wagener

Dr.med.vet. Mag.med.vet. MSc. Dipl.ECAR, University Clinic for Ruminants, Clinical Unit for Herd Health Management in Ruminants, University of Veterinary Medicine, Vienna, Austria and EBVS® European Veterinary Specialist in Animal Reproduction Biography

Karen Wagener is a research assistant at the Clinical Unit for Herd Health Management in Ruminants, University of Veterinary Medicine, Vienna, Austria. She is Diplomate of the European College of Animal Reproduction and a specialist in the subspecialty of bovine reproduction. Her research is focused on clinical and subclinical endometritis in dairy cows and covers microbiological and immunological aspects linked to subfertility. Her overall research goal is to contribute to the development of effective preventive and therapeutic measures against uterine disease.



WS3. Preimplantation embryo-maternal communication in cattle: Implications on fertility and in vitro embryo production

Dr. Dimitrios Rizos

Professor of Research, Department of Animal Reproduction, National Institute for Agriculture and Food Research and Technology (CSIC-INIA), Madrid, Spain

Dr. Dimitrios Rizos is a "Professor of Research" at the National Institute for Agricultural and Food Research and Technology (CSIC-INIA), Department of Animal Reproduction, Madrid-Spain. He received his Ph.D. from University College Dublin in 2002, where he spent a further 3 years as a post-doctoral fellow. In 2004, he got a Research-Fellowship and 2006 permanent position as "Senior Researcher" leading a dynamic group in "Assisted Reproduction and Preimplantation Embryology in Cattle" at CSIC-INIA. His main research focus on: factors affecting embryo production in vitro; mechanisms controlling embryo-maternal interactions and the role of Extracellular Vesicles (EVs); fertility in dairy cows. Dr. Rizos has over 120 peer-reviewed papers, dissemination articles, book chapters and numerous invitations to plenary lectures at International Conferences-Symposia. He is active member in various scientific committees and was elected to the Board of Governors of the Association of Embryo Technologies in Europe (AETE:2010-2015) and International Embryo Technology Association (IETS:2016-2020), and elected President of AETE (2015-2018).



WS4. Reproductive diseases of small ruminants

Prof. George Fthenakis

Professor and Past-Dean, Veterinary Faculty, University of Thessaly, Greece, Past-President, European College of Small Ruminant Health Management, EBVS® European Veterinary Specialist in Animal Reproduction

G.C. Fthenakis is Professor and Past-Dean of the Veterinary Faculty of the University of Thessaly. After postgraduate studies at The Royal Veterinary College, University of London, he has become a de facto Diplomate of ECAR and invited specialist Diplomate of ECSRHM, where he was also the Foundation President. Fthenakis has lectured in the veterinary schools of the Universities of Edinburgh, Guelph, Hannover, Liverpool, Thessaloniki and Zaragoza. He has supervised ten PhD theses and one European Veterinary College specialisation programme. He has managed 29 research grants, among them the projects 'Goshomics' (1,788,500 €) and 'Academic teaching experience for young scientists at the University of Thessaly' (6,150,000 €). Fthenakis has published works include 228 papers (IF: 480.5) with 4950 citations (h-index: 38), four books and 76 invited/keynote presentations in conferences world-wide. His interests are in health management, reproduction, diseases and welfare of small ruminants.



WS5. Managing difficult pregnancy and parturition in dogs and cats; Managing dystocia

Prof. Dr. Sandra Goericke-Pesch, Dipl. ECAR

Full Professor for Reproductive Medicine of dogs and cats, University of Veterinary Medicine Hannover, Germany

I studied veterinary medicine in Gießen, Germany, and afterwards worked as an Intern and later-on as a scientific assistant at the Clinic for Obstetrics, Gynecology and Andrology of Large and Small Animals, Justus-Liebig-University, Giessen. Changed to Copenhagen university, Denmark as Associate Professor for Reproduction at the Department of Large Animal Sciences. Since 2018 I am a full Professor for Reproductive Medicine of dogs and cats, University of Veterinary Medicine Hannover, Germany. My doctoral thesis was about semen quality in stallions and my habilitation about the application of slow release GnRH agonists in male dogs and cats. Diplomate of the European College for Animal Reproduction and German Specialist in breeding hygiene and biotechnology of reproduction. I had the honour to be EVSSAR board member (2013-2019) and former treasurer. My main focus of interest is contraception, infertility and uterine inertia.



WS6. Controlled reproduction in buffaloes

Prof. Bianca Gasparri, DVM, PhD

Professor of veterinary obstetrics and gynaecology (VET/10), Department of Veterinary Medicine and Animal Production, University of Naples Federico II, Naples, Italy

Bianca Gasparri, DVM (1994) and PhD in "Animal Breeding" at Federico II University of Naples (1999). During her PhD she spent a 1 year-research stage at AgResearch Reproductive Technologies Laboratory, Hamilton, New Zealand. She held a postdoctorate position at the Department "Division of Gene Expression and Development", Roslin Institute, UK and was team leader of the embryo culture group (2000-2001). She entered academia at the Dep. of Veterinary Medicine and Animal Production, Federico II University of Naples in 2002 and since 2020 is Full professor of Veterinary obstetrics and gynecology. Her main research topics are reproductive biotechnologies applied to animal breeding, with main focus on buffalo reproduction. She served as Trustee of the Foundation of the International Embryo Technology Society and Chair of the Education Committee (2016-2021). She has been principal investigator of several research projects, she has many international co-operations and she is co-author of 237 publications.



WS7. Breeding for improved fertility, based on endocrine traits

Prof Britt Berglund

Professor in applied animal breeding, Senior Advisor at the Department of Animal Breeding and Genetics (HGEN); Department of Animal Breeding and Genetics, Swedish University of Agricultural Sciences, Sweden

I am professor in applied animal breeding and genetics. My research is mainly on the understanding and use of the genetic variation in traits important for a sustainable breeding program. I am specialized in dairy cattle and do research and teaching in most economical and ethical important traits. One focus is the genetic background to reproduction- and health traits and new phenotypic measurements for the traits. I have published more than 150 peer reviewed scientific articles.



WS8. Precision Livestock Farming applications for reproduction in sows and dairy cows

Lenny van Erp-van der Kooij, MSc PhD

Professor (UAS) Precision Livestock Farming, HAS University of Applied Sciences, Den Bosch, the Netherlands

Elaine (Lenny) van Erp-van der Kooij has an MSc in Animal Science from Wageningen University and a PhD in Veterinary Science from Utrecht University in the Netherlands. Her PhD research was on coping behaviour in fattening pigs. She is a professor in Precision Livestock Farming at HAS University of Applied Science in the Netherlands and visiting Professor of Practice at Harper Adams University in the UK. Her main focus is using sensor technology and data science in livestock production, aiming to improve the health and welfare of farm animals and to make farming more sustainable. Projects and studies include sensor applications in dairy cows, pigs and poultry and also companion animals and horses.

Programme at a glance

Wednesday 28 September 2022

09:00-17:00 ECAR-College, Pre-conference event

Thursday 29 September 2022

10:00-15:00 Optional Excursion
14:00-17:00 Meeting of the ESDAR Board
17:00-20:00 Registrations
20:00 Welcome Reception

Friday 30 September 2022

08:45-09:00 Opening Session
09:00-10:30 Plenary Session I
10:30-11:00 Coffee Break
11:00-12:00 Young scientist presentations
12:00-13:30 4 Parallel Workshops
13:30-14:30 Lunch
14:30-16:00 Poster Session I
16:00-16:15 Coffee Break
16:15-17:15 Oral communication sessions
19:00 Gala Dinner

Saturday 1 October 2022

08:30-09:50 Plenary Session II
09:50-10:15 Coffee Break
10:15-10:55 Plenary Session III
10:55-11:55 Oral Communication Session II
11:55-12:45 ESDAR annual business meeting
12:45-13:45 Lunch and Meeting of the Country Representatives
13:45-15:15 Poster Session II
15:15-15:30 Coffee Break
15:30-17:00 4 Parallel Workshops
17:00-17:30 Awards and Closure of ESDAR

Sunday 2 October 2022

09:00-17:00 Optional Excursion

Conference Venue



The 25th ESDAR Conference will be held in M2 Building of the **Thessaloniki Concert Hall**, a modern building that adorns the city with a unique construction that epitomizes the virtues of modern architecture.

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Graphic Design, DTP: Kyriakos Zagliveris

Registrations' desk operation hours

Thursday 29 September 2022 17.00 – 20.00

Friday 30 September 2022 08.00 – 17.00

Saturday 1 October 2022 08.00 – 17.00

Social Events

Thursday 29 September 2022, 20.00, Welcome Reception at the Conference Venue

Friday 30 September 2022, 19.00, Gala Dinner at the Museum of Byzantine Art

ESDAR and the Local Organising Committee would like to thank the sponsors for their contribution and support to the conference.

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INMEVA®, ενέσιμο εναιώρημα, αδρανοποιημένο εμβόλιο για τον έλεγχο των αποβολών που προκαλούνται από *Chlamydia abortus* και *Salmonella enterica* του υποείδους *enterica serovar Abortusovis* στα πρόβατα.

ΣΥΝΘΕΣΗ: Κάθε δόση (2 ml) περιέχει: Δραστικές ουσίες: *Chlamydia abortus*, στέλεχος A22 (PR ≥1) και *Salmonella Abortusovis*, στέλεχος Sao (PR ≥1). Ανοσοενισχυτική ουσία: Υδροξείδιο αλουμινίου και DEAE-Dextran.

ΕΝΔΕΙΞΕΙΣ: Πρόβατα. Για την ενεργό ανοσοποίηση των ζώων με στόχο τη μείωση των κλινικών σημείων (αποβολή, εμβρυϊκός θάνατος, πρόωμη θνησιμότητα και υπερθερμία) που προκαλούνται από *Chlamydia abortus* των αποβολών που προκαλούνται από *Salmonella Abortusovis*, καθώς και για τη μείωση της απέκκρισης και των δύο παθογόνων από τα μολυσμένα ζώα. **ΟΔΟΣ ΧΟΡΗΓΗΣΗΣ:** Υποδόρια. Ανακινήστε καλά πριν από τη χρήση και περιστασιακά στη διάρκεια της χορήγησης. Βεβαιωθείτε ότι το εμβόλιο είναι σε θερμοκρασία δωματίου (15–25°C) πριν από τη χορήγηση. Χορηγήστε σε άσηπτες συνθήκες. Θα πρέπει να χρησιμοποιούνται μόνο αποστειρωμένες σύριγγες και βελόνες. Ελάχιστη ηλικία εμβολιασμού: 5 μηνών. **ΔΟΣΟΛΟΓΙΑ:** Αρχικός εμβολιασμός: Χορηγήστε 2 δόσεις με μεσολαβούμενο διάστημα 3 εβδομάδων. Η πρώτη δόση θα πρέπει να χορηγηθεί τουλάχιστον 5 εβδομάδες πριν από το ζευγάρισμα. Επαναληπτικός εμβολιασμός: χορηγήστε αναμνηστική δόση 2 εβδομάδες πριν από τη σπερματέγχυση ή το ζευγάρισμα, αλλά ποτέ πάνω από 1 έτος μετά τον αρχικό βασικό εμβολιασμό. Η ασφάλεια του εμβολιασμού στη διάρκεια της κύησης και της γαλουχίας έχει καθιερωθεί, καθώς και η αποτελεσματικότητά του στη διάρκεια του δεύτερου τριμήνου της κύησης. Δεν συνιστάται η χρήση του στη διάρκεια του τελευταίου μήνα της κύησης. **ΑΝΕΠΙΘΥΜΗΤΕΣ ΑΝΤΙΔΡΑΣΕΙΣ:** μια ψηλαφητή τοπική αντίδραση στο σημείο της ένεσης είναι πολύ συχνή. Στις περισσότερες περιπτώσεις η αντίδραση είναι ήπια ή μέτρια και υποχωρεί σε 2 εβδομάδες χωρίς θεραπεία. Η θερμοκρασία του ζώου πολύ συχνά αυξάνεται, αλλά μειώνεται αυτόματα σε 24 ώρες. **ΑΝΤΕΝΔΕΙΞΕΙΣ:** Μην χρησιμοποιείτε σε περίπτωση υπερευαισθησίας στις δραστικές ουσίες, στις ανοσοενισχυτικές ουσίες ή σε οποιοδήποτε έκδοχο. Μην αναμειγνύετε με οποιοδήποτε άλλο κτηνιατρικό φάρμακο. **ΠΕΡΙΟΔΟΣ ΑΝΑΜΟΝΗΣ:** 0 ημέρες. **ΕΙΔΙΚΕΣ ΠΡΟΦΥΛΑΞΕΙΣ:** Εμβολιάζετε μόνο υγιή ζώα. Σε φάρμες με επανεμφανιζόμενες αναπαραγωγικές διαταραχές που προκαλούνται από *Chlamydia abortus* ή/και *Salmonella Abortusovis*, αποτελεί ευθύνη του κτηνιάτρου να αποφασίσει εάν θα εμβολιαστεί όλο το κοπάδι, σύμφωνα με τα συνιστώμενα προγράμματα εμβολιασμού. Στην περίπτωση αυτοεμβολιασμού εκ παραδρομής, απευθυνθείτε αμέσως σε ιατρό και δείξτε του το φύλλο οδηγιών χρήσης ή την επισήμανση. Φυλάσσεται και αποστέλλεται σε ψυγείο (σε θερμοκρασία μεταξύ 2°C έως 8°C). Μην καταψύχετε. Προστατέψτε από το φως. **ΜΕΓΕΘΗ ΣΥΣΚΕΥΑΣΙΑΣ:** κουτί με 1 φιαλίδιο PET που περιέχει 5 δόσεις (10 ml), κουτί με 1 φιαλίδιο PET που περιέχει 25 δόσεις (50 ml), κουτί με 1 φιαλίδιο PET που περιέχει 50 δόσεις (100 ml), κουτί με 1 φιαλίδιο PET που περιέχει 125 δόσεις (250 ml). Ενδέχεται να μην κυκλοφορούν όλα τα μεγέθη συσκευασίας. Κωδικός ATCvet: QI04AB. **ΚΑΤΟΧΟΣ ΑΔΕΙΑΣ ΚΥΚΛΟΦΟΡΙΑΣ:** Laboratorios Hipra, S.A. Avda. la Selva, 135, 17170 Amer (Girona), Ισπανία. **ΤΟΠΙΚΟΣ ΑΝΤΙΠΡΟΣΩΠΟΣ:** HIPRA HELLAS SA ΜΗΡΙΩΝΟΥ 2-4, ΑΘΗΝΑ, 10441, 210 4978660, hiprahellas@hipra.com **ΑΡΙΘΜΟΣ ΚΑΤΑΧΩΡΙΣΗΣ:** 60997/18/23-07-19. Κτηνιατρικό φαρμακευτικό προϊόν που υπόκειται σε συστηματική παρακολούθηση από κτηνίατρο. Χρησιμοποιείτε τα φαρμακευτικά προϊόντα υπεύθυνα. Για περισσότερες πληροφορίες, διαβάστε το φύλλο οδηγιών χρήσης ή επικοινωνήστε με τον κτηνίατρο που το συνταγογράφησε.



The Reference
in Prevention
for Animal Health

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Detailed Programme

Wednesday 28 September 2022

ECAR -College, Pre-conference event

CR-2

09:00-09:30	Opening Session
09:30-11:00	Why is endometritis important in different species? (Economics, medical...)
11:00-11:30	Coffee break
11:30-13:00	Comparative diagnostics tools of uterine endometritis
13:00-14:00	Lunch
14:00-15:30	Comparative treatments of uterine endometritis (focus on good use of antibiotics)
15:30-16:00	Coffee break
16:00-17:00	Preparation to the ECAR exam

Thursday 29 September 2022

10:00-15:00	Optional Excursion
14:00-17:00	Meeting of the ESDAR Board
17:00-20:00	Registrations
20:00	Welcome Reception

Anagnostirio

Foyer

Friday 30 September 2022

08:45-09:00	Opening Session
09:00-10:30	Plenary Session I Keynote lecture 1: Antimicrobial use and resistance in food-producing animals - How can we protect the efficacy of antibiotics for reproductive diseases? Ulf Magnusson (Sweden) Keynote lecture 2: The negative impact of lameness on dairy cow reproduction Georgios Tsousis (Greece)
10:30-11:00	Coffee Break
11:00-12:00	Young scientist presentations YSC 1 E. Thomson (1627) Determining the clinical effectiveness of a single pre-breeding examination for predicting subsequent reproductive performance in seasonal pasture-based heifers YSC 2 M. Yildirim (1615) Advanced monitoring techniques to detect pregnancy in cows YSC 3 C. Margariti (1563) Sex ratio of foals produced by ICSI: a field study YSC 4 O. Bedir (1555) Transcriptomic effects of FSH treatment and/or imbalanced nutrition on ovine caruncles

Aimilios Riadis

Aimilios Riadis

Foyer

Aimilios Riadis

YSC 5 E. Mlyczyńska (1544) Regulation of visfatin expression in the porcine corpus luteum during the estrous cycle and early pregnancy: a possible involvement of kinase ERK1/2

YSC 6 P. Martínez-Díaz (1533) Porcine oviductal extracellular vesicles from the late follicular phase show a higher binding to the spermatozoa's membrane

YSC 7 DT Lianou (1511) Extensive countrywide field investigation of somatic cell counts and total bacterial counts in bulk-tank raw milk in sheep flocks in Greece

12:00-13:30 4 Parallel Workshops

WS1 Impact of sperm chromatin on embryogenesis
Mark Yeste (Spain)

CR-1

Transfer of allogenic embryos and response of the female immune tract | *Cristina A. Martínez (Sweden)*

Embryo implantation and foetal development | *Nina Smolinska (Poland)*

WS2 Mechanisms of infection and immunity in the bovine reproductive tract – What do we learn from clinical studies?
Karen Wagener (Austria)

CR-2

Epithelial cell culture systems as an in vitro-approach to mimic the situation of inflammation during endometritis | *Christoph Gabler (Germany)*

Associations between postpartum uterine microbiota and clinical parameters | *Ballas Panagiotis (Austria)*

WS3 Preimplantation embryo-maternal communication in cattle: Implications on fertility and in vitro embryo production

CR-3

Dimitrios Rizos (Spain)

3D modelling the maternal environment: using microfluidics and bio-printing to create an in vitro oviduct-endometrium-on-a-chip | *Marcia de Almeida Monteiro Melo Ferraz (Germany)*

Deciphering the dialogue between the bovine developing embryo and the uterus: use of an endometrial explant model | *José María Sánchez Gómez (Spain)*

WS4 Reproductive diseases of small ruminants
George Fthenakis (Greece)

Museum

Reproductive management in small ruminant farms, with special reference to reproductive control | *George Fthenakis (Greece)*

Causes and diagnosis of peri-parturient deaths in sheep and goats | *Vasia Mavrogianni (Greece)*

Predisposing factors for bacterial mastitis in ewes | *Natalia G.C. Vasileiou (Greece)*

13:30-14:30 Lunch

Foyer

14:30-16:00 Poster Session I (Student posters 1-13; Posters 1-46)

Poster area

16.00-16:15 Coffee Break

Foyer

16:15-17:15 Oral communication session I (OC 1-4)

OC 1 (Nutrition and Reproduction)

Museum

1.1: Milk fatty acids can predict delayed commencement of luteal activity in dairy cows (Th. Ntallaris et al. - 1524 – Sweden)

1.2: Metabolic predictors of reproductive tract disease in seasonally calving pasture-based cows (E. Kelly et al. - 1653 - Ireland)

1.3: Activation of hyaluronan synthases in equine endometrium affected by perivascular and degenerative endometrial fibrosis (M. Domino et al.- 1664 – Poland)

1.4: The role of the fractal dimension domain in IRT-based noninvasive pregnancy differentiation in mares (M. Masko et al. - 1665 – Poland)

OC 2 (Spermatology)

CR-2

2.1: Evaluation of short-term storage of canine semen at room temperature (S. Deleuze et al. - 1550 – Belgium)

2.2: Relative abundance of mRNA for porcine protamines 1 and 2 following bicarbonate-triggered in vitro sperm capacitation (E. Lacalle et al. - 1564 - Spain)

2.3: Refrigerated storage alters boar sperm DNA compaction as determined by the reduction of disulfide bonds and chromatin decondensation (C. Soriano-Úbeda et al.- 1580 – Spain)

2.4: Polymers as a promising alternative to antibiotics in canine semen extender (G. Domain et al. - 1649 – Belgium)

OC 3 (Other / Equine)

CR-3

3.1: Uterine fluid contains factors inhibiting myeloperoxidase enzymatic activity in mares (S. Parrilla Hernández et al. - 1534 – Belgium)

3.2: Metalloproteinases (MMPs) and tissue inhibitors of MMPs (TIMPs) epigenetic signature in mare endometriosis (J. Alpoim-Moreira et al. - 1542 - Portugal)

3.3: Prevalence of Taylorella equigenitalis-positive samples in Icelandic stallions (M. Grabatin et al.-1570 – Germany)

3.4: Recombinant production of equine chorionic gonadotropin (N. Lekena et al. - 1679 – South Africa)

OC 4 (Gynecology)

CR-1

4.1: Associations between heat stress, periparturient disorders and reproductive performance in dairy cows (M. Tekin et al. - 1590 – Austria)

4.2: Study of influential factors on the expression of seasonal subfertility in pigs (K. Kousenidis et al. - 1618 - Greece)

4.3: Using simulation-based methods to teach vaginal cytology techniques in Veterinary Medicine – a multicenter study (R. Marcos et al.- 1670 – Portugal)

4.4: Expression of GnRH and kisspeptin receptors in the ovary and uterus in deslorelin treated late-prepubertal bitches (M. Karadağ et al. - 1673 – Turkey)

19:00 Gala Dinner

Museum
of Byzantine
Culture



CASA (Computer Assisted Sperm Analysis) system for automated assessment of male fertility

QualiSperm CASA software suite for animals

QualiSperm Animal is your first choice when doing research. With our QualiSperm Animal version you can measure concentration, motility and velocity of boar, bull, stallion or fish sperm.

Concentration, Motility & Morphology

- Concentration (mio/ml)
- Number of sperm cells
- Motility classification (progressive, non-progressive)
- Mean speed (VAP)
- Mean sperm cell size
- Cytoplasmic droplets detection



Features

- Image sequence recording
- Tailored Spermiogram and analysis screens
- Manual counters for:
 - Cells
 - Motility
 - Morphology
 - Vitality
 - Antibody
 - Fragmentation
- Subject/animal file storage
- Custom reports
- Exportable results
- AKYmed support

Open system

- Upright light microscope
- Ueye digital camera
- PC
- Prior motorized stage (optional)
- Tokai Heating plate (optional)
- 2 or 4 chambers 20µm slide

Saturday 1 October 2022

08:30-09:50	Plenary Session II Keynote lecture 3: Suppression of reproductive behavior and gonadal function in horses - an update <i>Christine Aurich (Austria)</i> Keynote lecture 4: Maladaptation to the transition period and consequences on fertility of dairy cows <i>Oswaldo Bogado Pascottini (Belgium)</i>	Aimilios Riadis
09:50-10:15	Coffee Break	Foyer
10:15-10:55	Plenary Session III Keynote lecture 5: 25 years after Dolly: update on long term effects of embryo biotechnologies <i>Pascale Chavatte-Palmer (France)</i>	Aimilios Riadis
10:55-11:55	Oral Communication Session II (OC 5-8) OC 5 (Behaviour and Reproduction) 5.1: How is immune status connected with arachidonic acid metabolism in the uterus of red deer females (<i>Cervus elaphus</i> L.) in different reproductive stages? (A. Korzekwa et al. - 1507 – Poland) 5.2: Oestrus length and mounting and standing behaviour in Norwegian Red cattle (M. Munthe-Kass et al. - 1582 - Norway) 5.3: Effect of twinning on milk fat-to-protein ratio and survival in dairy cattle (M. Vaga et al.- 1586 – Estonia) 5.4: Neonatal weight and growth of pure-bred kittens (P. Banchi et al. - 1637 – Belgium) OC 6 (Miscellaneous) 6.1: Virulence genes of <i>Escherichia coli</i> isolates from milk and vaginal swabs of sows associated with postpartum dysgalactia syndrome (B. Angjelovski et al. - 1581 – Rep of North Macedonia) 6.2: Increased number of high-quality oocytes in antral follicles can determine higher litter size in two outbred high-fertility mouse lines (M. Calanni-Pileri et al. - 1612 - Germany) 6.3: Associations between uterine bacterial infections at the time of artificial insemination and fertility (B. Panagiotis et al.- 1676 – Austria) 6.4: Vascular changes regarding histopathological type and degree of equine endometriosis (L. Zdrojkowski et al. - 1662 – Poland) OC 7 (Endocrinology) 7.1: Onset of puberty in ewe-lambs treated prenatally with melatonin (I. Valasi et al. - 1525 – Greece) 7.2: Kinomics profiling of dog uterine stromal (DUS) cells following decidualization, and inhibition of progesterone signaling with antigestagens – a pilot study (M. Tavares Pereira et al. - 1554 - Switzerland) 7.3: Seasonality in kidding after transfer of in vitro produced Saanen goat embryos into recipients of local Ukrainian breed (A. Bogdaniuk et al.- 1624 – Ukraine) 7.4: A comparison of omentin action on the granulosa cell proliferation in Large White and Meishan pigs (K. Pich et al. - 1634 – Poland)	Museum CR-3 CR-2

	OC 8 (Andrology)	CR-1
	8.1: Biochemical and bacteriological characterization of Dachshund semen: a correlation study (E. Tvrdá et al. - 1493 – Slovakia)	
	8.2: ProAKAP4 correlation with motility descriptors and spermatozoa subpopulations in stallion (M. Dordas Perpinya et al. - 1514 - France)	
	8.3: Effect of filtration, simple centrifugation, and presence of antibiotics on bacterial load and sperm quality of equine chilled sperm (L. Gutierrez et al. - 1661 – Spain)	
	8.4: Genetic analysis of a novel trait to assess libido in AI boars (J. Sanchez-Osorio et al. - 1556 – Spain)	
11:55-12:45	ESDAR annual business meeting	Aimilios Riadis
12:45-13:45	Lunch	Foyer
12:45-13:45	Meeting of the Country Representatives	Anagnostirio
13:45-15:15	Poster Session II (Posters 47-105)	Poster area
15:15-15:30	Coffee Break	Foyer
15:30-17:00	4 Parallel Workshops (WS 5-8)	
	WS5 Managing difficult pregnancy and parturition in dogs and cats; Managing dystocia	CR-3
	Sandra Goericke-Pesch (Germany)	
	Difficulties in pregnancy - tips and tricks <i>Hanna Körber (Germany)</i>	
	WS6 Controlled reproduction in buffaloes	CR-2
	Bianca Gasparrini (Italy)	
	Superovulation in buffaloes: state of art and future perspectives <i>Angela Salzano (Italy)</i>	
	Use of AI and Sexed Semen for Genetic Improvement in the Buffalo (<i>Bubalus bubalis</i>) <i>Giorgio Antonio Presicce (Italy)</i>	
	WS7 Breeding for improved fertility, based on endocrine traits	CR-1
	Britt Berglund (Sweden)	
	Reproductive loss and genetic parameters estimated from milk pregnancy-associated glycoproteins in Swedish dairy cattle <i>Patricia Ask-Gullstrand (Sweden)</i>	
	Fertility in a randomized controlled study of extended voluntary waiting period in primiparous dairy cows <i>Anna Edvardsson Rasmusson (Sweden)</i>	
	WS8 Precision Livestock Farming applications for reproduction in sows and dairy cows	Museum
	Lenny van Erp-van der Kooij (The Netherlands)	
	Precision Livestock Farming (PLF) applications in dairy cow reproduction <i>Judith Roelofs (The Netherlands)</i>	
17:00-17:30	Awards and Closure of ESDAR	Aimilios Riadis

Sunday 2 October 2022

09:00-17:00 Optional Excursion to Mount Olympus

PHARMACELL S.A. Animal Health Care & Nutrition is a veterinary company, founded in 2009 by a vet with expertise in Animal Nutrition. Its mission is to successfully meet the growing needs of the veterinary industry, while its vision is to provide diversified, value-added products and services, in the animal sector.

The company has established a nationwide sales network, with distribution channels of vet clinics, livestock farms of all animals, as well as feed shops for both livestock animals and pets.

The headquarter facility of 4,500 m², includes a logistics center, a wholesale store of veterinary drugs, the production line of feed supplements in large packaging and a laboratory to produce special supplements of smaller packaging, in both solid and liquid form.



Pharmacell possesses probably the widest product portfolio in Greece, which incorporates:

- Livestock animal food supplements
- Mineral feed and Milk Replacers
- Pharmaceuticals
- Prevention & Treatment products



The portfolio of "**Nutrition**" product line includes the brands:

Opti+plus: Wide range of Mineral feed, Premixes, Mineral blocks and Specialized Feeds for all livestock animal species

Biolac Pro 3: High Quality Milk Replacers with 3 probiotics



The portfolio of "**Care & Protect**" product line includes the brands:

Ruminta: Wide range of Feed and Dietetic supplements that can effectively support the health and productivity of all production stages, for Ruminants.

Nutrimeo: Specialized preparations made of natural, concentrated ingredients with proven benefits, for productive animals.

Pharmacell is primarily a Veterinary Company, active in veterinary science. Thus, Pharmacell participates in International Research Programs of University Institutions namely:

"MASTIN" program is an innovative research project which concerns the production of an intramastic Veterinary formulation for productive animals, absent the use of antibiotics for disposal in Greece. It runs under the formal approval of the Greek General Secretariat for Research & Technology, and collaborates with the Veterinary Medicine School and the Department of Chemistry of the Aristotle University of Thessaloniki.

"AMNOSELECT" program (gender preselection in sheep) in collaboration with the University of Ioannina, the International Hellenic University (Department of Animal Production), and the University of Thessaly (Department of Veterinary Medicine).

"Investment Innovation Plans" that concerns a product that contributes to the "Use of thistle extract for the Natural Liver Health and Welfare of hens and the high-value eggs' production".

Represents exclusively in Greece the companies:



Nutrimeo

opti+plus

BioLac PRO 3

Ruminta

List of Posters

Friday 30th September 2022, 14:30-16:00 Poster Session I (Student posters 1-13; Posters 1-46)

PSt1	Calcein Violet, a validated marker of membrane integrity in bulls and stallions	Egyptien, S
PSt2	Diode laser surgery in a 2-year-old doe with progesterone receptor free vaginal varicose veins	Brutinel, F
PSt3	Phoenixin-14 and its receptor GPR173 in porcine corpus luteum: expression during the estrous cycle and in vitro effects on the luteal cells proliferation	Mlyczyńska, E
PSt4	The influence of a single dose of azaperone administered at weaning on circulating concentrations of cortisol, insulin, and glucose in sows: A retrospective study	Bartlewski, P
PSt5	Pregnancy rate in problem cows treated using OvSynch or CIDR/PRID programs	Wozniak, G
PSt6	Proteomics and mass spectrometry in caprine milk for PAG identification	Bouroutzika, E
PSt7	Gonadal tissue transplantation in domestic goose (<i>Anser anser domesticus</i>)	Buda, K
PSt8	Location of AQP3 in spermatozoa of small ruminants is affected by the cryopreservation method: conventional or ultra-rapid cooling rate	Pequeño, B
PSt9	Biometry of Chios dairy ewes' teats with ultrasonography throughout the dry period	Themistokleous, K
PSt10	Clinical trial of edible olive oil based teat sealant "MASTIN" in Chios dairy ewes	Themistokleous, K
PSt11	High fertile boars and offspring health, is it always correlated?	Toledo Guardiola, S M
PSt12	Diagnosis of subclinical endometritis via leucocyte esterase test in endometrial explant donor cows	Kneidl, A
PSt13	Uterine microbiota in postpartum dairy cows suffering from purulent vaginal discharge and clinical endometritis prior and following local antibiotic treatment	Malledevarahalli Chandrappa, S
1	Theobromine as a natural stimulator of steroidogenesis in rabbit testicular tissue	Benko, F
2	Regulatory T cells and NK cells are present in the endometrium of cyclic mares	Jaworska, J
5	In vitro probiotic potential of mare's milk, a pilot study	Girmé, G
6	Methylation of gene SIRT1 in ram spermatozoa from Lacon and Assaf breeds	Kistanova, E
7	Canine sperm vitrification with nonpermeable cryoprotectants and coconut water extender	Antonov, A
8	Influence of equilibration time on the quality of canine spermatozoa after vitrification using egg yolk and coconut water extender	Ivanova, B
9	Sexing of fresh ram semen by activation of the toll-like receptors 7/8 (TLR7/8)	Abadjieva, D
10	Quality and fertility in IVF of boar spermatozoa stored at 4°C for 6 or 7 days	Malalung, P
11	The relationship between pelvic dimensions and dystocia in cattle	Nogalski, Z
12	Next Generation Sequencing analysis discloses genes implicated in equine endometrosis	Kotula-Balak, M
13	Discarding of cattle due to fertility problems – a pilot study to evaluate occurrence of bovine endometrosis	Hirsbrunner, G
14	Mitochondrial DNA content and developmental competence of blastocysts derived from prepubertal heifer oocytes	Wocławek-Potocka, I

15	Effect of the addition of buck seminal plasma after thawing on sperm DNA integrity	Ohaneje, U
16	Effect of short-progestogen treatment on induction of oestrus and fecundity in ewe-lambs	Statira, M-C
17	The use of scrotal contractions/relaxations video monitoring in evaluating boar semen production capacity	Tsakmakidis, I
18	Addition of proanthocyanidin to freezing extender did not improve post-thaw quality of domestic cat semen	Prochowska, S
19	Treatment with exogenous progesterone (P4) during the Ovsynch protocol increases the luteal regression in heat stressed dairy cows	Dovenski, T
20	The prevalence of Brachispina syndrome in Holstein cows and optimisation of its detection methods	Muslimova, Z
21	Microbial contamination of donkey frozen semen doses: first step results	Dorado, J
23	Circulating and endometrial polymorphonuclear leukocyte function dynamics in postpartum dairy cows with subclinical or clinical endometritis	Bogado Pascottini, O
24	Plasminogen activator activity/plasminogen activator inhibition in the uterus of ewes following superovulation treatment	Samartzi, F
25	Ovarian steroid concentration in the uterus of ewes following superovulation treatment	Theodosiadou, E
26	Effect of four extenders on semen quality of Skopelos bucks during a 48-hour liquid storage	Saratsi, A
27	Veterinary treated cases of uterine prolapse in Swedish dairy cows – incidence and survival	Båge, R
29	Sperm-specific protein proAKAP4 as a marker to evaluate sperm quality and fertility of Alpine and Saanen Bucks	Fatet, A
30	The effect of progesterone on the endometrial reaction in dairy cows	Trela, M
31	Fast development of severe lung metastasis in dog during 4 weeks after mammary carcinoma resection: a case report	Witkowska-Piłaszewicz, O
32	Identification of various pathologies in the perineum area in dogs	Bayberekov, N
33	Haemodynamic parameters of blood flow into the umbilical artery in pregnant ewes treated with melatonin	Barbagianni, M S
34	Heat stress as a potential risk factor for the birth of small for gestational age dairy calves	Meesters, M
35	Influence of Iloprost on the energy status of in vitro bovine blastocysts	Kowalczyk-Zięba, I
36	The importance to diagnose Ehrlichia canis and Anaplasma phagocytophilum in obstetrics and gynaecology cases before surgery	Darbaz, I
37	Effect of moderate altitude hypoxia on nucleated red blood cell count in pregnant sheep having low and high hematocrit values	Moneva, P
38	Effect of the frequency of semen collection on sperm characteristics by massage technique in Chinchilla lanigera	Babarczy, B
39	Improving the efficiency of synchronization protocols by using teaser bulls	Turlybekova, K
40	Point-of-care device for assessing male fertility in animals through measurement of sperm concentration and motility	Najdenovska, E
41	In vitro study on the effect of L-Carnitine on the efficiency of sperm freezing of Partridge-colour Hungarian roosters	Vegi, B

42	Persistent heat in a 1,5-year-old Shiba-inu	Kaszak, I
43	Study on semen cryopreservation of indigenous Hungarian duck	Drobnýák, A
45	Effect of cryopreservation on viability, morphology and apoptotic- like changes of epididymal sperm of European red deer (<i>Cervus elaphus elaphus</i>)	Dziekońska, A
46	A pregnant uterus in an inguinal hernia in a bitch - a case report	Hornakova, L

Saturday 1st October 2022

13:45-15:15 Poster Session II (Posters 47-106)

47	The bacterial presence in bovine semen and expression of seminal plasma proteins	Duracka, M
48	Small intestinal intussusception in a newborn foal, a case report	Domanska, D
49	Proteomic analysis of intracellular and membrane-associated fractions of canine (<i>Canis lupus familiaris</i>) epididymal spermatozoa	Mogielnicka-Brzozowska, M
50	Ovarian steroids concentration in follicular fluid collected from different size bovine follicles in relation to oocyte quality	Tsiligianni, T
51	Effect of fumaric acid addition to soy lecithin extender on post-thaw parameters of buck semen quality	Rekkas, C
52	Electrical teat dipping	Yilmaz, O
53	Reproduction efficiency in Romanian buffalo cows under low-input and intensive production systems	Gavojdian, D
54	Identification of spermatozoa damage after cryopreservation with fluorescent markers	Grba, J
55	Taxifolin and glutathione improve goat semen cryopreservation	Hidalgo Ordóñez, C
56	Evaluation of efficacy of a biofilm-embedded bacteria-based vaccine against staphylococcal mastitis in sheep - a randomized, placebo- controlled field study	Vasileiou, N
57	What an idea does somatic cell count in milk give us - a literature review	Ulusoy, B H
58	Birth season and dam parity affect the anogenital ratio in dairy heifers	Van Eetvelde, M
59	The chromosomal instability as causes of reproductive disturbances in Romanian Black and White Spotted dairy breed	Nicolae, I
60	Associations between early lactation data and extended lactation performance in high yielding dairy cows	Tsousis, G
61	Rare complications of ovarian remnant syndrome in a bitch	Domrazek, K
62	Antimicrobial effect of plant-based substances on bacteria in bull semen	Cojkic, A
63	The anogenital ratio as an indicator of reproductive performance in dairy heifers	Beci, B
64	Caspase-3/7 activation during cryopreservation of alpaca (<i>Vicugna pacos</i>) spermatozoa	Santiani, A
65	Mastitis indicated as the most serious health issue among sheep farmers and advisors in four Mediterranean countries	Tsiokos, D
66	Omentin (intelectin 1) in the porcine anterior pituitary: mRNA and protein expression and regulation by GnRH and gonadotropins	Respekta, N
67	Visfatin effect on progesterone synthesis in the porcine corpus luteum during the estrous cycle via activation of MAPK and AMPK signalling pathways.	Mlyczyńska, E
68	Regulation of visfatin secretion by the porcine anterior pituitary cells during the oestrous cycle	Kamiński, T

69	Retrospective analysis of ovine dystocia cases presented for veterinary attention with special reference to uterine torsion	Balaspoulou, V
70	Effect of weaning on selected hormonal and biochemical parameters in Hucul foals	Vilhanová, Z
71	Predicting dystocia in dairy heifers based on dam and calf measurements	Tsaousioti, A
72	Omentin affects progesterone secretion and 3 β -HSD protein abundance in the porcine endometrium	Kiezun, M
73	Expression of irisin and the regulation of its generation by gonadoliberin, gonadotropins and insulin in the porcine anterior pituitary	Dobrzyn, K
74	Expression of irisin and the regulation of its secretion by LH, progesterone, prostaglandins and insulin in the porcine corpus luteum	Smolińska, N
75	Assessment of Brilliant Cresyl Blue (BCB) staining as a quality indicator for developmental ability of porcine oocytes	Dovenska, M
76	The effect of centrifugation on kinetic parameters of cryopreserved boar spermatozoa	Mickov, L
77	Oxidants present in seminal plasma do not influence donkey sperm cryotolerance	Yáñez-Ortiz, I
78	The influence of the age of first calving on the milk performance of the Polish Holstein-Friesian black-and-white cows	Czerniawska-Piątkowska, E
79	Polish Hunting Spaniel breed free from C295G mutation in T-box gene	Jundziłł-Bogusiewicz, P
80	Relationship between the length of calving interval and milk production in cattle	Wrzecińska, M
81	Summer heat stress affects hemodynamic parameters, tissue density, and alters secreting ability of the corpus luteum in dairy cows.	Amiridis, G S
82	Renal and hepatic serum biochemistry of bitches with pyometra	Gasser, B
83	Identification of mutations of selected genes causing retinal degeneration in the domestic cat (<i>Felis catus</i>) - in silico analysis	Kurowska, P
84	Blood gas analysis comparison between pyometra and healthy bitches	Ramirez Uscategui, R
85	Pyruvate kinase deficiency in domestic cats – in silico analysis	Grzegorzówka, B
86	Molecular diagnostic test identifying mutant allele carriers of the CLN genes in Golden Retriever breed	Gruszczńska, J
87	Molecular diagnostic tests identifying carriers of SLC3A1 and SLC7A9 gene mutations in domestic cats	Kańska, J
88	Bacterial overgrowth during proestrus and estrus in clinically healthy female dogs and effects on fertility	Igna, V
89	Genetic profiling of GDF9 gene in Greek goat populations (<i>Capra hircus</i>)	Michailidou, S
90	Hematologic profile of dairy cows diagnosed with clinical metritis during the first week after calving	Tsiamadis, V
91	Melatonin increases viability of spermatozoa and provides protection against post-thawing hydrogen peroxide-induced oxidative stress	Lavrentiadou, S
92	Reproductive characteristics of Pelagonia sheep breed	Kotsampasi, B
93	Histological characterization of the cervix of ewes in estrus	Del Aguila da Silva, P
94	Effect of lameness and metabolic status of dairy cows on reproduction performance	Praxitelous, A
95	Protein metabolism biochemistry during transition is associated with reproductive performance in dairy cows	Siachos, N

96	Presence of bacteria-free filtrate of <i>Lactobacillus buchneri</i> decreased the growth of <i>Trueperella pyogenes</i> isolated from the bovine uterus	Ibrahim, M
97	Melatonin affects the ability of red deer spermatozoa to respond to ionophore and LPC challenges in capacitating and non-capacitating conditions	Fernández Alegre, E
98	Vascular changes regarding histopathological type and degree of equine endometrosis	Zdrojkowski, L
99	Phenotypic characterisation of Greek Indigenous Buffalo	Lymperopoulos, A
101	Metabolic profiling of preovulatory follicular fluid in jennies	Catalán, J
102	Use of a colloid medium with antioxidant prevents excessive production of reactive oxygen species production during refrigeration on alpaca (<i>Vicugna pacos</i>) spermatozoa	Evangelista-Vargas, S
103	Laparoscopic insemination (LAI) with fresh sex-sorted semen in sheep – first results	Milovanović, A
104	Silencing of progesterone membrane component (PGRMC) 1 and 2 affects the proliferation and secretion function of bovine endometrial endothelial cells	Kowalik, M K
105	Improvement of body weight and body condition score prediction of Sarda ewe-lambs at mating age by using morphometric measurements	Sioutas, D
106	Association of post-partum rumen contraction score with fertility in Holstein dairy cows	Valergakis, G



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