



**28 Sep - 2 Oct 2022**  
Thessaloniki Concert Hall  
Thessaloniki, Greece  
[www.esdar2022.org](http://www.esdar2022.org)

## Scientific Programme

### Wednesday 28<sup>th</sup> September 2022

#### ECAR Pre-conference event

- 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<sup>th</sup> 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<sup>th</sup> 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** | G. 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
- 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 countryside field investigation of somatic cell counts and total bacterial counts in bulk-tank raw milk in sheep flocks in Greece



**28 Sep - 2 Oct 2022**  
Thessaloniki Concert Hall  
Thessaloniki, Greece  
[www.esdar2022.org](http://www.esdar2022.org)

12:00-13:30 **4 Parallel Workshops**

**WS1 Impact of sperm chromatin on embryogenesis**

**Mark Yeste (Spain)**

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)**

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**

**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**

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 | N.G.C. Vasileiou (Greece)

13:30-14:30 Lunch

14:30-16:00 **Poster Session I (Student posters 1-13; Posters 1-46) – [List of Posters](#)**

16:00-16:15 Coffee Break

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

*4 parallel oral communication sessions (presentations of 12 minutes and 3 minutes of discussion)*

**OC 1 (Nutrition and Reproduction)**

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)**

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)



**28 Sep - 2 Oct 2022**  
Thessaloniki Concert Hall  
Thessaloniki, Greece  
[www.esdar2022.org](http://www.esdar2022.org)

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

### **OC 3 (Other / Equine)**

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)**

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**

## **Saturday 1st October 2022**

### **08:30-09:50 Plenary Session II**

Keynote lecture 3: **Suppression of reproductive behavior and gonadal function in horses - an update** | Christine Aurich (Austria)

Keynote lecture 4: **Maladaptation to the transition period and consequences on fertility of dairy cows** | Osvaldo Bogado Pascottini (Belgium)

09:50-10:15 Coffee Break

### **10:15-10:55 Plenary Session III**

Keynote lecture 5: **25 years after Dolly: update on long term effects of embryo biotechnologies** | Pascale Chavatte-Palmer (France)

### **10:55-11:55 Oral Communication Session II (OC 5-8)**

4 parallel Oral communication sessions (presentations of 12 minutes and 3 minutes of discussion)

### **OC 5 (Behaviour and Reproduction)**

5.1: How is immune status connected with arachidonic acid metabolism in the uterus of red deer females (*Cervus elaphus* 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)



**28 Sep - 2 Oct 2022**  
Thessaloniki Concert Hall  
Thessaloniki, Greece  
[www.esdar2022.org](http://www.esdar2022.org)

### **OC 6 (Miscellaneous)**

- 6.1: Virulence genes of *Escherichia coli* 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 endometrosis (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)

### **OC 8 (Andrology)**

- 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

12:45-13:45 Lunch; Meeting of the Country Representatives

13:45-15:15 **Poster Session II (Posters 47-105) – [List of Posters](#)**

15:15-15:30 Coffee Break

15:30-17:00 **4 Parallel Workshops (WS 5-8)**

#### **WS5 Managing difficult pregnancy and parturition in dogs and cats; Managing dystocia**

**Sandra Goericke-Pesch (Germany)**

Difficulties in pregnancy - tips and tricks | Iris Reichler (Switzerland)

#### **WS6 Controlled reproduction in buffaloes**

**Bianca Gasparrini (Italy)**

Superovulation in buffaloes: state of art and future perspectives | Angela Salzano (Italy)  
Use of AI and Sexed Semen for Genetic Improvement in the Buffalo (*Bubalus bubalis*) | Giorgio Antonio Presicce (Italy)

#### **WS7 Breeding for improved fertility, based on endocrine traits**

**Britt Berglund (Sweden)**

Reproductive loss and genetic parameters estimated from milk pregnancy-associated glycoproteins in Swedish dairy cattle | Patricia Ask-Gullstrand (Sweden)



25<sup>th</sup>  
ANNUAL  
**ESDAR**  
CONFERENCE 2022



**28 Sep - 2 Oct 2022**  
Thessaloniki Concert Hall  
Thessaloniki, Greece  
[www.esdar2022.org](http://www.esdar2022.org)

Fertility in a randomized controlled study of extended voluntary waiting period in primiparous dairy cows | Anna Edvardsson Rasmusson (Sweden)

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

**Lenny van Erp-van der Kooij (The Netherlands)**

Precision Livestock Farming (PLF) applications in dairy cow reproduction | Judith Roelofs (The Netherlands)

**17:00-17:30 Awards and Closure of ESDAR**

**Sunday 2 October 2022**

09:00-17:00 Optional Excursion