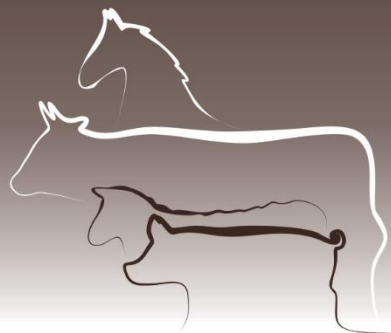




# 27<sup>th</sup> annual ESDAR CONFERENCE



## BELGRADE 2024

SEPTEMBER 12<sup>th</sup> to 14<sup>th</sup>

ABSTRACT SUBMISSION IS OPEN:

<https://www.esdar.org/>



University of Belgrade  
Faculty of Veterinary Medicine

Faculty of Veterinary Medicine  
Ss. Cyril and Methodius  
University in Skopje

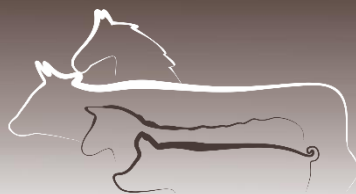


European Society for  
Domestic Animal Reproduction

Website: <https://esdar2024.vet.bg.ac.rs>

E-mail: [esdar2024@vet.bg.ac.rs](mailto:esdar2024@vet.bg.ac.rs)

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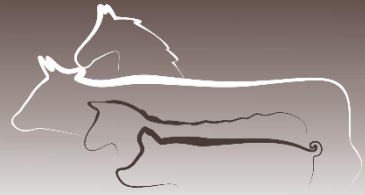


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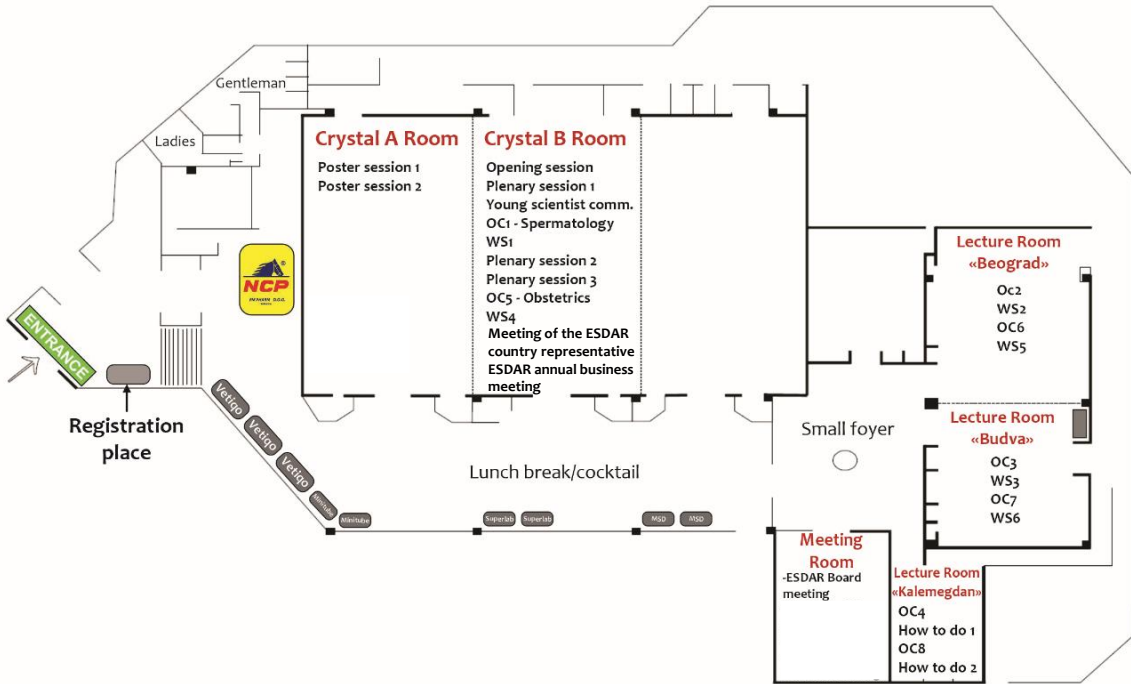


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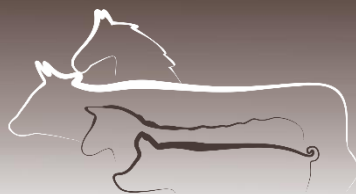
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## Hotel map



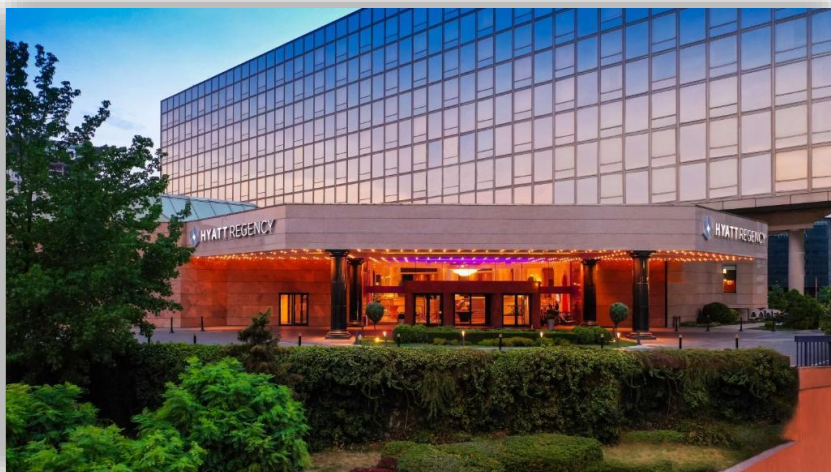
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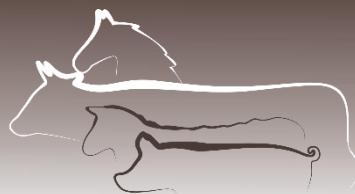
**Program** | Day 1  
Thursday, September 12th, 2024

- 13.30–19.00 | Registration
- 13.30–15.30 | ESDAR Board meeting / **Meeting Room**
- 19.30–23.00 | Welcome reception at Faculty of Veterinary Medicine (organized transfer from and to Hyatt)

**CONFERENCE PLACE** | **HYATT REGENCY BELGRADE**



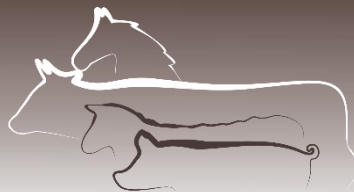
# 27<sup>th</sup> annual ESDAR CONFERENCE



## Program | Day 2 Friday, September 13th, 2024

- 08.30–09.00** | Opening session / **Crystal B Room**
- 09.00–10.20** | Plenary session 1 / **Crystal B Room** / *Chaired by M. Maletić*
- 09.00–09.40** | **Keynote lecture 1:** Simple and advanced assisted reproductive techniques/technologies in small animals  
Prof. **Wojciech Nizanski**, Faculty of Veterinary Medicine, Wrocław University of Environmental and Life Sciences (PL)
- 09.40–10.20** | **Keynote lecture 2:** Equine ART and antral follicle count: Can we deepen our understanding to improve outcomes?  
Asst. Prof. **Niamh Lewis**, School of Veterinary Medicine, University College Dublin (IE)
- 10.20–10.50** | Coffee break
- 10.50–12.10** | **Young scientist communication** / **Crystal B Room** / *Chaired by E. Thomson*  
(5 min + 1 min discussion each)
- YSC1:** **H. Rashid** – 2079 – BE: Shotgun metagenomic sequencing reveals positive interactions among bacterial pathogens in clinical compared to subclinical endometritis
- YSC2:** **M. Balassa** – 2151 – SE: The influence of intra-venous glucose administration during in-vivo embryo production process in dairy cattle
- YSC3:** **K. Marcollova** – 2133 – DE: Physiological changes in boar spermatozoa upon addition or withdrawal of free intracellular zinc ions
- YSC4:** **J. Blagojević** – 2117 – SR: Influence of supplemented nutrition on the motility and epigenetic related gene expression of boar sperm
- YSC5:** **B. Milovanović** - 2076 – SR: Evaluation of the effect of cyclooxygenase inhibitors on the conception rate after the first artificial insemination in Holstein-Friesian dairy cows with subclinical endometritis
- YSC6:** **L. Xie** – 2054 – BE: Genesis of bovine uterine disease: Neutrophil transcriptomic changes in distinct energetic conditions under a lipopolysaccharide challenge
- YSC7:** **P. Vallejo-Soto** - 2036 – ES: Optimizing canine sperm selection: a comparative study of swim-up techniques using Androcoll-C
- YSC8:** **M. Soyly** – 2013 - TR: Dynamic follow-up of neovascularization in two different orthotopic ovarian tissue transplant sites using in vivo magnetic resonance imaging (MRI) perfusion
- YSC9:** **Y.F. Altınbaş** – 2012 – TR: Differential expression of oxidative stress-related COX2, HO1, and NRF2 factors in the ovarian tissue of bitches with pyometra

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## Program | Day 2 Friday, September 13th, 2024

### 12.10–13.10 | Oral communications 1

(4 parallel sessions with 4 OC's each, 12 min + 3 min discussion)

#### OC1 – Spermatology / Crystal B Room / Chaired by D. Bucci

- 1.1: **J. Marttila** et al. 2024 – FI: Antimicrobial resistant bacteria in shipped stallion semen and uterine lavage fluid after insemination
- 1.2: **M.M. Rivera del Alamo** et al. – 2028 – ES: Effects of short-term exposure of nanoplastics on *Dicentrarchus labrax* sperm
- 1.3: **J.M. Ortiz Rodriguez** et al. – 2044 – IT: Superoxide dismutase inhibition hastens protein phosphorylation during equine sperm capacitation
- 1.4: **G. Rizzoto** et al. – 2130 – Belgium Does sperm selection prevent lasting effects of heat stress exposure in bulls?

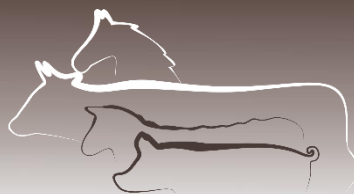
#### OC2 – Andrology / Lecture Room „Beograd“ / Chaired by M. Hidalgo

- 2.1: **A.R. Shendi** et al. – 2019 – AT: Evaluation of spermatogenesis in stallions after GnRH immunization and re-stimulation of testicular function with a GnRH agonist
- 2.2: **M.O. Yazlik** et al. – 2052 – TR: Immunolocalization of Aquaporins on stallion spermatozoa and their link to fertility
- 2.3: **A. Kaya** et al. – 2068 – TR: Evaluating the in vitro effects of Florasulam exposure on epididymal bull sperm and testicular cells
- 2.4: **K. Abah** et al. – 2121 – PL: Canine sperm cell aging: Apoptotic, antioxidant, and sperm functional characteristics in fresh semen of adult and senior dogs

#### OC3 – Behaviour and Reproduction / Lecture Room „Budva“ / Chaired by J. Roelofs

- 3.1: **R.T. Garmo** et al. – 2033 – NO: How does dairy cow-calf contact affect reproductive performance in Norwegian Red?
- 3.2: **A. Ayad** et al. - 2045 – DZ: Effect of season on the histomorphometric changes of testicular tissues and testosterone concentrations of Algerian local donkeys (*Equus asinus*)
- 3.3: **M. Quaresma** et al. - 2093 – PT: Estrous cycle suppression and endometrial bacteria isolation in female donkeys with the use of the intrauterine device iUPOD®
- 3.4: **C. Dall'Aglio** et al. - 2134 – IT: Nerve growth factor system identification in the male and female gonads of an invasive alien grey squirrel (*Sciurus Carolinensis*) population

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## Program | Day 2 Friday, September 13th, 2024

### 12.10–13.10 | Oral communications 1 (4 parallel sessions with 4 OC's each, 12 min + 3 min discussion)

OC4 – Other / **Lecture Room „Kalemegdan“** / **Chaired by R. Båge**

4.1: **G. Ringa-Osleja** et al. – 2141 – LV: Relation of reproductive disorders to *Coxiella burnetii* positive status in dairy cattle

4.2: **M. Ebrahimi** et al. - 2067 – IT: Extending in vitro culture periods enhances oocyte growth and competency in cumulus-oocyte complexes (COCs) derived from sheep early antral follicles

4.3: **T. Ahcene-Mekdoud** et al.- 2103 – DE: Potential role of NF-κB in regulating imprinted genes in bovine-growing ovarian follicles

4.4: **M. Saeed-Zidane** et al. – 2124 – DE: Potential influences of heat stress on quality and mitochondrial activity of stressed and nonstressed bovine spermatozoa

### 13.10–14.10 | Lunch break

### 13.10–14.10 | Meeting of the ESDAR country representatives / **Lecture Room „Kalemegdan“**

### 14.10–15.30 | Poster session 1 / **Crystal A Room**

### 15.30–15.45 | Coffee break

### 15.45–17.15 | Parallel workshops 1-3, How to do session 1

**WS1:** Key points that increase the success of the OvSynch protocol / **Crystal B Room**

Assoc. Prof. **Branko Atanasov**, PhD, MSc, DVM, Faculty of Veterinary Medicine, Ss. Cyril and Methodius University in Skopje (MK)

**WS2:** Exploring innovative media for ram semen cryopreservation / **Lecture Room „Beograd“**

Asst. Prof. **Martin Nikolovski**, PhD, DVM, Faculty of Veterinary Medicine, Ss. Cyril and Methodius University in Skopje (MK)

**WS3:** Semen collection and artificial insemination in field condition-practice among arabian horses / **Lecture Room „Budva“**

Asst. Prof. **Ljubodrag Stanišić**, PhD, DVM, Faculty of Veterinary Medicine, University of Belgrade (SR)

**How to do 1:** Udder health / **Lecture Room „Kalemegdan“**

Dr **Lilli Bittner-Schwerda**, MSc PhD, Dip. ECHBM, Faculty of Veterinary Medicine, Leipzig University (DE)

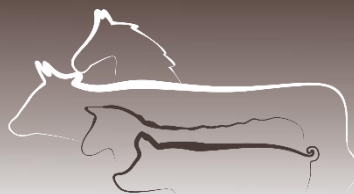
Udder health management in dairy farms with different milking systems

Individual mastitis therapy

Teat surgery

### 19.00–24.00 | Gala dinner

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## Program | Day 3 Saturday, September 14th, 2024

08.30–09.50 | **Plenary session 2 / Crystal B Room / Chaired by T. Dovenski**

08.30–09.10 | **Keynote lecture 3:** Extended lactations in dairy cows and the effect on fertility and production

Dr **Ariette TM van Knegsel**, Senior Researcher, Wageningen University & Research (NL)

09.10–09.50 | **Keynote lecture 4:** Trends and challenges in liquid-preserved boar semen production: From boar to product

Prof. **Martin Schulze**, Institute for Reproduction of Farm Animals Schönow (DE)

09.50–10.20 | Coffee break

10.20–11.00 | **Plenary session 3 / Crystal B Room / Chaired by D. Kirovski**

10.20–11.00 | **Keynote lecture 5:** Animal models and human reproduction

Prof. **Miodrag Stojković**, SPEBO Medical, Leskovac (SR)

11.00–12.00 | **Oral communications 2** (4 parallel sessions with 4 OC's each, 12 min+3 min discussion)

**OC5 – Obstetrics / Crystal B Room / Chaired by O. Bogado**

**5.1: N. Prvanovic Babic et al. – 2040 – HR:** Influence of age and inbreeding on incidence and prevalence of RFM (retained fetal membranes) in Lipizzan mares

**5.2: M. Melchert et al. – 2049 – AT:** Differences in proliferation of the allantochorion between mares with and without ascending bacterial placentitis

**5.3: U. Kaya et al. – 2051 – TR:** A multivariate approach to determining the relationships between hematological indices and LPS concentration, antioxidant activity in bitches with pyometra

**5.4: M. Probo et al. – 2053 – IT:** Prevalence, management and outcome of vaginal prolapse in beef cows

**OC6 – Nutrition/Endocrinology / Lecture Room „Beograd“ / Chaired by A. Ricci**

**6.1: C. Gobello et al. – 2001 – AR:** Clinical, ovulatory and histological effect of a postnatal testosterone treatment in female dogs

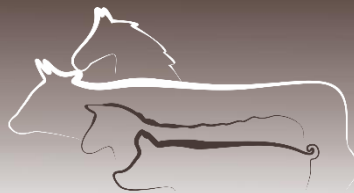
**6.2: M. Maranesi et al. – 2119 – IT:** Seasonal variation of the nerve growth factor (NGF) in seminal plasma and presence and expression of NGF system on the genital tract of rams (*Ovis aries*)

**6.3: M.I. Cuevas Gómez et al. – 2020 – ES:** Long-term impact of diarrhea and bovine respiratory disease during rearing on reproductive performance in dairy heifers

**6.4: A. Eriksson et al. – 2014 – SE:** Diagnosis, therapy and prophylactic measures of periparturient hypocalcemia in cattle: results of an online survey for Swedish veterinarians (presenter: **Th. Ntallaris**)



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## Program | Day 3 Saturday, September 14th, 2024

### 11.00–12.00 | Oral communications 2 (4 parallel sessions with 4 OC's each, 12 min+3 min discussion)

#### OC7 – Gynaecology / Lecture Room „Budva“ / Chaired by G. Hirsbrunner

- 7.1: **Th. Ntallaris** et al. – 2078 – SE: Microbiota in the reproductive tract differs between pregnant and non-pregnant dairy cows
- 7.2: **S. Tsiligianni** et al. – 2063 – GR: Certain cervical mucus parameters after estrus induction in dairy cows may be related to the success of artificial Insemination with sexed beef semen
- 7.3: **W. Barański** et al. – 2110 – PL: Association of subclinical endometritis with acycilia and their additive effect on fertility performance in dairy cows
- 7.4: **K. Jaggernath** et al. – 2153 – TT: A survey of the gross and cytological findings of female bovine reproductive tracts in Trinidad and Tobago

#### OC8 – Other / Lecture Room „Kalemegdan“ / Chaired by St. Björkmann

- 8.1: **M. Szymanska** et al. - 2027 – PL: Expression and role of sirtuin 1 and sirtuin 6 in the porcine early placenta trophoblast
- 8.2: **R. Kabakçi** et al. – 2065 – TR: Perfluorooctanoic acid (PFOA) impact on bovine luteal cells: viability, steroidogenesis, and molecular responses
- 8.3: **M. Dewulf** et al. – 2125 – BE: Longitudinal study on telomere length and lifetime production in dairy heifers
- 8.4: **A. Edvardsson Rasmussen** et al. - 2147 – SE: Survival and culling reasons of dairy cows in a cow-calf contact system

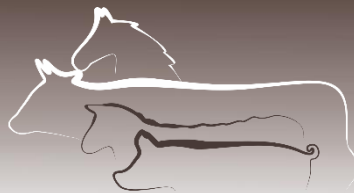
12.00–13.00 | Lunch break

12.45–13.15 | ESDAR annual business meeting / Lecture Room „Beograd“

13.00–14.20 | Poster session 2 / Crystal A Room

14.20–14.35 | Coffee break

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## Program | Day 3 Saturday, September 14th, 2024

### 14.35–16.05 | Parallel workshops 4-6, How to do session 2

**WS4:** Animal health management as the basis for optimal fertility performance / **Crystal B Room**

Prof. **Alexander Starke**, PhD, Dip ECBHM, Faculty of Veterinary Medicine, Leipzig University (DE)

**Transition cow management**

**Claw and limb health**

**Problem-oriented system analysis**

**WS5:** Nonhormonal reproductive management in goat industry / **Lecture Room „Beograd“**

Prof. **Juraj Grizelj**, Faculty of Veterinary Medicine, University of Zagreb (HR)

**WS6:** Periparturient interactive workshop / **Lecture Room „Budva“**

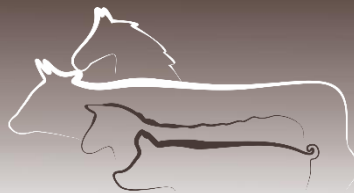
Dr **John Mee**, MVB, PhD, Dip ECBHM, MVM, FRCVS, Principal Research Officer - Veterinary, Teagasc (IE)

**How to do 2:** Canine conception to birth: a how-to odyssey in dog reproductive management / **Lecture Room „Kalemegdan“**

Asst. Prof. **Maja Zakošek Pipan**, Veterinary Faculty, University of Ljubljana (SI)

### 16.15–16.45 | Awards and closure of ESDAR conference / **Crystal B Room**

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## Poster session 1 Crystal A Room

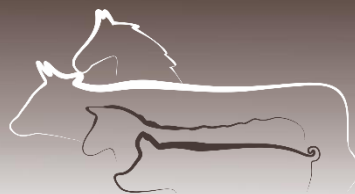
Day 2

Friday, September 13th, 2024

14:10 – 15:30

- PS1:** The impact of environmental condition on physiological parameters of semen of Italian Simmental young bulls / [Loddo Giada](#)
- PS12:** Doppler ultrasound assessment of uterine artery in canine endometritis / [Arioni Sol](#)
- PS13:** Multidisciplinary interspecies study reveals potential sex-specific rabbit sperm protein profile / [Pinto-Pinho Patrícia](#)
- PS14:** Reproductive ageing study in the female dog model: follicle count and lipofuscin deposition / [Montenegro Luís](#)
- P1:** Expression of melatonin receptors on sperm plasma membrane of goat bucks / [Cárdenas Padilla Alberto Jorge](#)
- P2:** Reproductive effect of a short followed by a long artificial photoperiod in female domestic cats / [Lantermino Augusto](#)
- P3:** Effect of standard and modified ov-synch protocols on pregnancy rate of Alpine goats / [Klinc Primož](#)
- P4:** Pregnancy rate in dairy cows after uterine body and deep cornual artificial insemination with sexed semen (preliminary study) / [Atanasov Anatoli](#)
- P5:** The use of Fourier-transform infrared spectroscopy to measure cholesterol efflux from goat buck spermatozoa / [Cortes-Fernandez-de-Arcipreste Norhan](#)
- P6:** The effect of melatonin on sperm cryosurvival of English Bulldog / [De-la-Rosa Alfredo](#)
- P7:** The effect of exogenous melatonin on goat buck sperm cryosurvival / [Hernandez-Cancelada Azucena](#)
- P8:** Case report: Low postpartal body weight development and low IGF-1 levels as a possible cause of infertility in a female cat / [Björkman Stefan](#)
- P9:** Extra-amniotic bovine foetus with aplasia of the posterior body: a case report/ [Esteves Luís](#)
- P10:** Ultrasonographic quantification of the intraluminal uterine content in canine pathological conditions using computer-assisted analysis / [Arioni Sol](#)
- P11:** Investigation of SnO<sub>2</sub> nanoparticles' cytotoxicity on frozen-thawed bull semen handling / [Tsakmakidis Ioannis](#)
- P12:** The effect of vitamin C on time expulsion of the fetal membrane in Simmental cows / [Ninković Milan](#)
- P13:** Expression patterns of selected inflammatory genes in uterine tissues of dogs diagnosed with Escherichia coli induced pyometra / [Özkan Hüseyin](#)
- P14:** Hormonal regulation and bacterial contamination of the uterus in mares / [Novotný František](#)
- P15:** Influence of the administration of hCG on preovulatory follicle in mares depending on the age / [Hura Vladimír](#)

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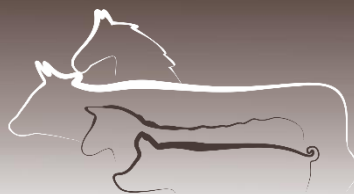


## Poster session 1 Crystal A Room

Day 2  
Friday, September 13th, 2024  
14.10 – 15.30

- P16:** Relationship between the utero-vaginal microbiome and hormonal changes in dairy cows - a review / *Varga-Balogh Orsolya Gabriella*
- P17:** An alternative to antibiotics in stallion semen extenders - centrifugation through a low density colloid / *Morrell Jane*
- P18:** Cryoprotective potential of theobromine following gene expression of PKA and NBC in the cryopreserved bovine spermatozoa / *Benko Filip*
- P19:** Fatty acid binding proteins in the porcine endometrium: profiles of expression in cyclic and pregnant gilts and the regulation by conceptus signals, progesterone and polyunsaturated fatty acids / *Blitek Agnieszka*
- P20:** Influence of the summer months on the pregnancy rate on the dairy farm „Salaš doo“ in Croatia / *Špoljarić Branimira*
- P21:** Low density colloid for bacterial removal in boar semen doses / *Basioura Athina*
- P22:** Efficiency of a modified ovulation synchronization program in the treatment of ovarian cysts in dairy cattle / *Hirsbrunner Gabriela*
- P23:** The effect of equilibration time on post thaw motility and plasma membrane integrity of bull spermatozoa / *Lojkić Martina*
- P24:** Testicular unilateral atrophy with high-quality sperm in a stallion – a clinical case / *Trela Michal*
- P25:** Addition of lysozyme reduces bacterial growth in cooled-stored stallion semen / *Aurich Christine*
- P26:** Increased birth weight of lambs born to mothers after feed supplementation with white button mushroom / *Vince Silvijo*
- P27:** Homeopathic remedy effect on the liquid stored boar semen characteristics by confocal microscopy / *Stvarnik Mateja*
- P28:** Evaluation of the use of ram effect induced by cryptorchids combined with cloprostenol on Sarda Sheep Reproduction / *Nassif Charbel*
- P29:** Impact of an epizootic hemorrhagic disease outbreak on reproduction in dairy cattle: a clinic case/ *Lozano Javier*
- P30:** Circulating oxidative stress and inflammatory cytokine concentrations in postpartum dairy cattle with clinical endometritis / *Malledevaraha Ili Chandrappa Sanjana*
- P31:** Proportion of bovine blastocysts obtained by in vitro fertilisation with the mycotoxins deepoxy-deoxynivalenol and beta-zearalenol / *Gačnikar Jernej*

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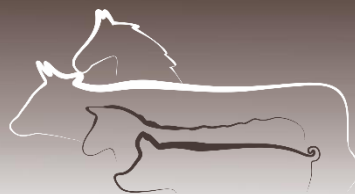


## Poster session 1 Crystal A Room

Day 2  
Friday, September 13th, 2024  
14.10 – 15.30

- P32:** Differences in Anti-Müllerian hormone concentration between two Slovenian indigenous sheep breeds / *Petročnik Špela*
- P33:** Fenugreek as a potential supplement to diluted semen: sperm motility-promoting and antibacterial properties / *Tvrđá Eva*
- P34:** Semen quality and seminal plasma extracellular vesicles in unilaterally cryptorchid and normal Estonian Holstein bulls / *Viljaste-Seera Anni*
- P35:** Cytotoxic effect of antibacterial bismuth and tin-bismuth oxide nanoparticles on ram semen motility and kinematics / *Ntemka Aikaterini*
- P36:** Effect of semen extender on mice sperm quality parameters/ *Ortiz Isabel*
- P37:** Extracellular matrix and microvascularization regulatory genes in the mare placenta / *Monteiro dos Santos Maria Inês*
- P38:** The antibacterial effect of kaempferol in freeze-stored bovine semen / *Đuračka Michal*
- P39:** Morphological analysis of epididymal spermatozoa of European red deer (*Cervus elaphus elaphus*) / *Gizinski Slawomir*
- P40:** Effect of two commercial extenders on quality and function characteristics of ram sperm under storage at 5 °C for 24 hours / *Basioura Athina*
- P41:** The possibility of training artificial inseminators on evaluating crystallization of cervical mucus in cow / *Tsiligianni Theodora*
- P42:** The use of deep learning to predict the litter size on the basis of boar sperm properties / *Manassas Athanasios*
- P43:** Analysis of selected hematological and biochemical parameters of bitches with stump pyometra before and during the postoperative period / *Janković Dušan*
- P44:** Magnetization of extender's water is beneficial for stored canine chilled semen quality: a preliminary study/ *Elekidou Eleni*
- P45:** A methylation inhibition approach in equine endometrial fibroblasts targeting COL1A1 and MMP9 genes / *Alpoim-Moreira Joana*
- P90:** Optimizing canine sperm selection: A comparative study of swim-up techniques using Androcoll / *C P. Vallejo-Soto*
- P91:** Shotgun metagenomic sequencing reveals positive interactions among bacterial pathogens in clinical compared to subclinical endometritis / *Muhammad Hussnain Rashid*

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## Poster session 2 Crystal A Room

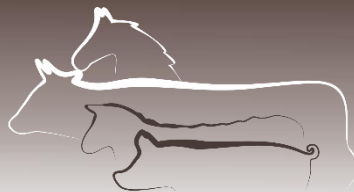
Day 3

Saturday, September 14th, 2024

13:00 – 14:20

- PS11:** The impact of environmental condition on physiological parameters of semen of Italian Simmental young bulls / [Loddo Giada](#)
- PS12:** Doppler ultrasound assessment of uterine artery in canine endometritis / [Arioni Sol](#)
- PS13:** Multidisciplinary interspecies study reveals potential sex-specific rabbit sperm protein profile / [Pinto-Pinho Patrícia](#)
- PS14:** Reproductive ageing study in the female dog model: follicle count and lipofuscin deposition / [Montenegro Luís](#)
- P46:** Relative amount of SRY gene in blood and sperm DNA samples from Ovis Aries (Preliminary study) / [Abadjjeva Desislava](#)
- P47:** Oral letrozole administration influences the antral follicular count in cyclic mares / [Khan Younis](#)
- P48:** Comparative studies of sperm kinematic parameters in relation to reproductive performance of sheep from Northeastern thin face breed / [Manchev Stefan](#)
- P49:** Supplementation of ram freezing extenders with a caffeic acid antioxidant derivative (CAAD) - Preliminary Results / [Saratsi Aikaterini](#)
- P50:** Exploring human in vitro culture media for sheep in vitro embryo production / [Ebrahimi Mohammadreza](#)
- P51:** Oral Supplementation with Scabiosa arthropurpurea L. aqueous extract improves in vivo sexual behavior, sperm quality, and androgen level in rams under heat stress condition / [Niama Wijden](#)
- P52:** Validation of the Bi-Parietal Diameter measurements criteria for safe Cesarean sections across canine breeds / [Casimiro Eduarda](#)
- P53:** Cervical resistance test in estrus and diestrus rats - a pilot study / [Del'Aguila-Silva Priscila](#)
- P54:** Development of the functional dimensions of teats up to mid lactation in Bulgarian Murrah buffaloes established by ultrasonography / [Fasulkov Ivan](#)
- P55:** Investigation of the ovarian blood flow velocity during the different phases of the estrous cycle in cows / [Postolov Svetoslav](#)
- P56:** Testicular histological differences of post-pubertal Equus asinus and Equus caballus / [Calado Ana](#)
- P57:** Atresia ani and tail in a newborn foal / [Sikora Monika](#)
- P58:** Does co-supplementation of zinc, manganese, and copper affect plasma testosterone, sperm quality, and antioxidant enzyme activities of ram? / [Towhidi Armin](#)
- P59:** Effects of pre-freezing red-light irradiation on ram semen: a preliminary study / [Ballotta Giulia](#)
- P60:** Ice nucleating agents in rooster sperm cryopreservation / [Bernal Berenice](#)

# 27<sup>th</sup> annual ESDAR CONFERENCE



## Poster session 2 Crystal A Room

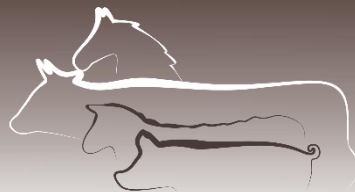
Day 3

Saturday, September 14th, 2024

13:00 – 14:20

- P61:** Variations in Anti-Müllerian Hormone, haptoglobin, and progesterone levels: Insights into pregnancy outcomes and twin gestation in ewes / *Ozturan Halil Gunes*
- P62:** Induction of parturition in a North American porcupine (*Erethizon dorsatum*): a case report / *Meesters Maya*
- P63:** Effects of Camelthorn (*Alhagi maurorum*) supplementation on some reproductive parameters of Afshari rams / *Parham Abbas*
- P64:** Ovariohysterectomy under balanced type of anesthesia as the final surgical treatment in cystic ovarian disease in 2 pet guinea pigs / *Siewruk Katarzyna*
- P65:** Swine breeding system in Sardinia and the usefulness of creating a semen production center / *Melis Federico*
- P66:** The effect of some plasma metabolic parameters on the number of transferable embryo production in superovulated Holstein cattle / *Okuroğlu Alaeddin*
- P67:** Roe deer corpora lutea (CL) morphometry in various age and body mass as potential factors of reproductive dynamic, embryo development and population management strategies / *Nasiadka Pawel*
- P68:** Effect of acute exercise and Ginkgo Biloba on spermatological parameters in rats / *Boran Hatic'e Kübra Nur*
- P69:** Contrast-enhanced ultrasound of the testes of normozoospermic dogs - a pilot study / *Nogueira Aires Luiz Paulo*
- P70:** Effect of embryo development kinetics and vitrification method on embryonic loss and fetal sex in the horse / *Peere Sofie*
- P71:** The morphokinetic parameters of embryos produced in vitro with sex-sorted vs. unsorted bovine sperm / *Serbetci Idil*
- P72:** Comparative study of different refrigeration media to improve the conservation of canine semen at +4°C: Preliminary test with the use of Rosiglitazone / *Bencharif Djemil*
- P73:** Unilateral Bartholin gland cyst in a Swedish Red Breed cow / *Wachtmeister Lina*
- P74:** Ewe management practices and lamb mortality in Swedish sheep production / *Båge Renee*
- P75:** Assessment of heavy metal toxicity on boar sperm function: In vitro analysis / *Akar Melih*
- P76:** Echo-texture and volumetric study of the reproductive tract in stallion / *Stelletta Calogero*
- P77:** Association of body condition score and backfat thickness at pre-breeding examination with subsequent reproductive performance in nulliparous pasture-based dairy heifers / *Thomson Eilidh*
- P78:** Identification of mutation in the ARSB gene causing mucopolysaccharidosis type VI in dogs of Pembroke Welsh Corgi breed / *Łyszkowska Gabriela*

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13:00 – 14:20

- P79:** The caudal vertebrae fusion and dysmorphology in White Swiss Shepherd Dog - searching for the causative mutation in the T-box gene / *Gruszczyńska Joanna*
- P80:** Polymorphism in the osteopontin (OPN) gene and age at first calving and milk yield in dairy cattle / *Kowalewska Inga*
- P81:** Identification PFK in the breeding dogs in the Polish Hunting Spaniel breed population to reduce the risk of producing affected offspring / *Jundziłł-Bogusiewicz Paulina*
- P82:** Trial to generate chimeric pigs with high-frequency renal tumors via aggregation of gene-edited blastomeres/ *Liu Bin*
- P83:** Intersexuality in a 7-months old pig: a case report / *Constantin Tiberiu*
- P84:** Pterostilbene augments the antioxidant capacity of thawed bovine spermatozoa / *Chavas Christos*
- P85:** Hydroallantois in mares – comparison of two cases / *Sajecka Olga*
- P86:** Assessment of cervicitis prevalence and diagnosis methods in post-partum dairy cows / *Cottar Louise*
- P87:** Effect of extracellular glutathione on maturation rate of porcine oocytes classified with BCB staining method / *Dovenska Monika*
- P88:** Saving the Sardinian Wild Trout (*Salmo ghigii* (1940)): Reproductive efficiency of frozen semen using a commercial medium / *Chessa Fabrizio*
- P89:** Response to environmental enrichment in group housing of layers and breeding pairs of Japanese quail / *Grzegorzóka Beata*
- P90:** Optimizing canine sperm selection: A comparative study of swim-up techniques using Androcoll / *C P. Vallejo-Soto*
- P91:** Shotgun metagenomic sequencing reveals positive interactions among bacterial pathogens in clinical compared to subclinical endometritis / *Muhammad Hussnain Rashid*