



First Symposium of the European College for Animal Reproduction (ECAR)

4-6 July 2019, Vetmeduni Vienna, Austria

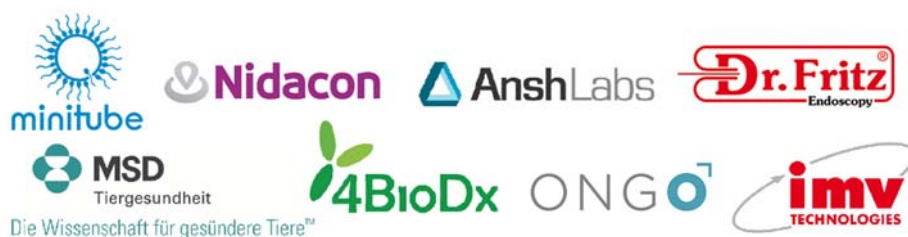
PROGRAMME

4 July		
Registration open		15:00-19:00
Welcome Reception at Vetmeduni Campus		17:00-22:00
5 July		
Welcome (Room A)		8:00-8:15
Plenary Session - General Aspects of Animal Reproduction (Room A)		8:15-9:00
Key note lecture: Christina Nagel (Austria) <i>Stress effects on parturition</i>		
Plenary Resident Session 1: Scientific Reports (Room A)		9:00-10:00
Anne-Marie Luther (Germany): <i>Protective extender medium counteracts the sensitivity to seminal plasma in thermally stressed boar spermatozoa</i>		9:00-9:15
Carola Fischer-Tenhagen (Germany): <i>Denaverine hydrochloride (Sensiblex ©) reduces pulling force in assisted parturition in Holstein-Friesian heifers</i>		9:15-9:30
Wojciech Baranski (Poland): <i>Prevalence of subclinical endometritis in dairy cows recovered from clinical endometritis with cephalixin or PGF₂α treatment</i>		9:30-9:45
Giorgia Podico (USA): <i>Use of intrauterine kerosene infusions in mares post-abortion: effects and considerations</i>		9:45-10:00
Coffee break & Posters		10:00-10:30
College Session A (Room A) Ruminant Reproduction	College Session B (Room B) Small Animal Reproduction	10:30-12:00
Key note lecture: Rodrigo Bicalho (USA): <i>The bovine uterine microbiome</i>	Key note lecture: Sylvie Chastant-Maillard (France): <i>Passive immune transfer in puppies</i>	10:30-11:15
Daniela Klein-Jöbstl (Austria): <i>The microbiota of newborn calves and their mothers</i>	Jasmine Fusi (Italy): <i>17β-Estradiol and Testosterone amniotic concentrations in at term born puppies: preliminary results</i>	11:15-11:30
Vanina Madoz (Argentina): <i>Progesterone concentration in early diestrus and endometrial transcriptomic profile in dairy cows</i>	Claudia Binder (Austria): <i>Spontaneous ovulation in the cat – uterine findings and correlations with animal weight and age</i>	11:30-11:45
Gustavo Gastal (Uruguay): <i>Two doses of prostaglandin F₂ alpha in the Ovsynch protocol on follicle diameter and circulating estradiol prior to ovulation in heifers</i>	Mateo Tesi (Italy): <i>The effects of aging on the quality of spermatogenesis, seminiferous tubules' architecture and fibrosis of testicular peritubular space in dogs</i>	11:45-12:00
Lunch & Posters		12:00-13:30

Plenary Session - General Aspects of Animal Reproduction (Room A)		13:30-14:15
Key note lecture: Geert Opsomer (Belgium) <i>Embryo-maternal metabolism</i>		
Plenary Resident Session 2: Case Reports (Room A)		14:15-15:00
Alexander Grahofer (Switzerland): <i>An uterotonic agent applied during farrowing caused an increased stillborn rate in a free farrowing system</i>		14:15-14:30
Maria Melchert (Austria): <i>Successful treatment of botryomycosis in a Haflinger mare</i>		14:30-14:45
Ilse Gerits (Belgium): <i>Mammary adenocarcinoma in the mare: two cases</i>		14:45-15:00
Coffee Break & Posters		15:00-15:30
College Session C (Room B)	College Session D (Room A)	15:30-16:45
Porcine Reproduction	Equine Reproduction	
Key note lecture: Ulf Magnusson (Sweden) <i>Zoonotic aspects of livestock infections</i>	Key note lecture; Regina Turner (USA): <i>Testicular degeneration in stallions</i>	15:30-16:15
Stefan Björkmann (Finland): <i>Prolonged farrowing may increase weight loss during lactation in sows</i>	Anne Kahler (UK): <i>Comparison of macroscopic developmental features of equine fetuses obtained from mares suffering early pregnancy loss and manually terminated healthy pregnancies</i>	16:15-16:30
Nicolas Sergeant (France) <i>Concentrations of proAKAP4 ensures fertility and prolificity in boars</i>	Igor Canisso (USA): <i>Doxycycline diffuses to fetoplacental unit and does not cause apparent complications to the resulting foal</i>	16:30-16:45
Gala Dinner at the Schönbrunn Zoological Garden		begins 19:00

6 July

Plenary Session - General Aspects of Animal Reproduction (Room A)		8:15-9:00
Key note lecture: Hilde Aardema (The Netherlands) <i>Cumulus cells protect the oocyte against elevated NEFA levels</i>		
Plenary Resident Session 3: Scientific Reports (Room A)		9:00-9:45
Pawel Kordowitzki (Poland): <i>Expression of telomeric repeat-containing RNA (terra) differs in early bovine embryonic development in a stage-dependent manner- a possible link to maternal ageing</i>		9:00-9:15
Martim Kaps (Austria): <i>Suppression of the estrous cycle in mares with continuous GnRH-analogue treatment</i>		9:15-9:30
Jole Mariella (Italy): <i>Alpha-fetoprotein concentrations in mares, amniotic fluid, and foals in normal and high-risk pregnancies</i>		9:30-9:45
Coffee break & Poster		9:45-11:00



College Session E (Room A) Biotechnology	College Session F (Room B)	11:00-12:15
Key note lecture (11:00-11:45) Peter Bols (Belgium): <i>Gonadal tissue conservation</i>	Carolina Okada (Austria): <i>Effect of subphysiological plasma progesterin concentration on early equine embryo development.</i>	11:00-11:15
	Isabel Callealta (South Africa): <i>Non-surgical artificial insemination in African lionesses (Panthera leo) after ovulation induction with a GnRH analogue: a new step into large felid conservation</i>	11:15-11:30
	Bence Somoskoi (Hungary): <i>Effects of pituitary adenylate cyclase activating polipeptide (PACAP) on early embryo development and implantation</i>	11:30-11:45
	Nicola Martino (Italy): <i>Comparative transcriptomic analysis of cumulus cells isolated from in vitro matured oocytes from juvenile and adult sheep</i>	11:45-12:00
Camille Gautier (Austria): <i>Expression of enzymes involved in polyunsaturated fatty acid synthesis in the stallion testes and epididymis</i>	Jaime Catalan (Spain): <i>Effects of LED-based red light stimulation upon frozen-thawed stallion sperm</i>	12:00-12:15
Lunch		12:15-13:00
ECAR Annual Business Meeting		13:00-14:00
Plenary Session - General Aspects of Animal Reproduction (Room A)		14:00-15:15
Key note lecture: Julian Skidmore (UAE): <i>Use of assisted reproductive technologies in old world camelids</i>		14:00-14:45
Tina Kesselring (Germany): <i>Age at sexual maturity and seasonality – new insights into the reproductive biology of harbour porpoises (Phocoena phocoena) from the North and Baltic Sea</i>		14:45-15:00
Vince Boglarka (Hungary): <i>Fetal sexing in African (Loxodonta africana) and Asian (Elephas maximus) elephants with the use of cell-free fetal DNA</i>		15:00-15:15
Coffee Break & Posters		15:15-15:45
Plenary Resident Session 4: Case Reports (Room A)		15:45-17:15
Andrea Dogliero (Qatar) <i>Artificial breeding in Houbara bustard</i>		15:45-16:00
Marie Denys (France): <i>An unexpected outcome in a mare pregnant for 8 months suffering from hepatic encephalopathy</i>		16:00-16:15
Ulrike Flock (Germany): <i>Metastatic ovarian carcinoma in a 2 year old Golden Retriever</i>		16:15-16:30
General Aspects of Animal Reproduction		16:30-17:15
Key note lecture: Martin Schulman (South Africa) <i>Strategies of contraception</i>		

Case Presentations – Posters (in alphabetical order of first authors)

(P1) *Influence of breed and year on prevalence of Equine Viral Arteritis in stallions.* Teresa Beyer, Juliane Kuhl, Jörg Aurich, Christine Aurich, Vetmeduni Vienna, Austria

(P2) *Successful parturition of a healthy calf born from a dromedary camel maintained on exogenous progesterone throughout pregnancy in a nonovulatory embryo recipient.* Jenny Boye, Tariq Hussain, Julio Oriol, Sweihan Camel Hospital, Abu Dhabi, UAE

(P3) *Pharmacological agents aiding to the management of ejaculatory and behavioral dysfunctions in stallions.* Igor Canisso¹, Robyn Ellerbrock², ¹University of Illinois Urbana-Champaign, ²University of Georgia, USA

(P4) *Comparing the artificial insemination quality of two technicians on the reproductive performance in sows.* Alexander Grahofer¹, Heiko Nathues², ¹Animal Physiology, Institute of Agricultural Sciences, ETH Zurich, ²Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland

(P5) *Effect of hypospadias in a crossbred boar on the reproductive performance in sows.* Alexander Grahofer¹, Heiko Nathues², ¹Animal Physiology, Institute of Agricultural Sciences, ETH Zurich, ²Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland

(P6) *Sudden enlargement of the scrotum in a dog – a diagnostic challenge.* Johannes Herbel, Sabine Schäfer-Somi, Vetmeduni Vienna, Austria

(P7) *Anti-Muellerian hormone as a diagnostic tool for monorchidism in dogs - a case report.* Christian Leykam, Beate Walter, Ulrike Flock, Christiane Otzdorff, Andrea Meyer-Lindenberg, Ludwig-Maximilians-University, Munich, Germany

(P8) *Pregnancy after partial ovariectomy in a mare with segmental aplasia.* Maya Meesters, Ilse Gerits, Sofie Peere, Margot Van de Velde, Jan Govaere, Department of Reproduction, Obstetrics and Herd Health, Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium

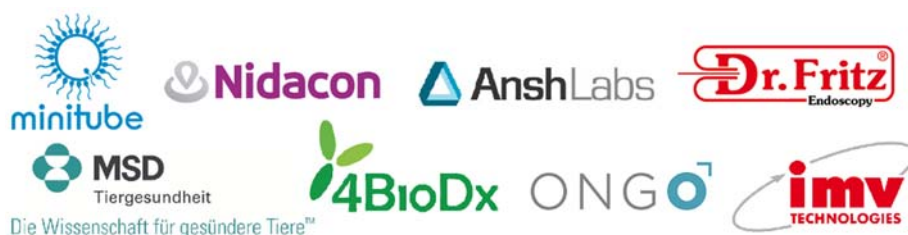
(P9) *A placental site trophoblastic tumor in a mare.* Sofie Peere¹, Norbert van de Velde², Peter Corty³, Margot Van de Velde¹, Ilse Gerits¹, Jan Govaere¹, ¹Department of Reproduction, Obstetrics and Herd Health, Faculty of Veterinary Medicine, Ghent University, Merelbeke, ²Department of Pathology, Faculty of Veterinary Medicine, Ghent University, Merelbeke, ³Ter Dieschoot, Belgium

(P10) *Does the “Madigan foal squeeze technique” evoke a stress response in foals? – Preliminary results.* Javier Pérez Quesada, Maria Melchert, Christine Aurich, Vetmeduni Vienna, Austria

(P11) *Laparoscopic ovariectomy in a mare with ovarian haematoma.* Kim-Carolin Spilker¹, Anna Tönissen², Jutta Sielhorst^{1,2}, Harald Sieme², Uta Delling², ¹Veterinary Competence Centrum Karthaus, Germany, ²University for Veterinary Medicine Hanover, Foundation, Germany

(P12) *A remarkable case of transfixation in a mare carrying twins.* Margot Van de Velde, Maya Meesters, Ilse Gerits, Sofie Peere, Kim Roels, Cyriel Ververs, Jan Govaere, Department of Reproduction, Obstetrics and Herd Health, Faculty of Veterinary Medicine, Ghent University, Merelbeke, Belgium

(P13) *Elevated anti-Müllerian hormone concentration in 4 dogs with disorders of sex development.* Beate Walter¹, Ulrike Flock¹, Heike Aupperle-Lellbach², Lena Kempker², Katrin Törner², Christian Leykam¹, Werner Hecht³, Andrea Meyer-Lindenberg¹, ¹Ludwig-Maximilians-Universität München, ²Laboklin GmbH & Co. KG, ³Justus-Liebig University Giessen, Germany



Scientific Poster Presentations (in alphabetical order of first authors)

(P14) *Natural exposure of Martina Franca jennies and their foals to ochratoxin-A.* Shafaq Asif¹, Vincenzo Lippolis², Michelangelo Pascale², Salvatore Cervellieri², Ermina Mancini², Augusto Carluccio¹, Domenico Robbe¹, Fiorenza Minervini², ¹Faculty of Veterinary Medicine, University of Teramo, ²Institute of Sciences of Food Production (ISPA), National Research Council (CNR), Bari, Italy

(P15) *Effects of oocyte exposure to ochratoxin-A on embryo development in juvenile sheep.* Shafaq Asif¹, Nicola Antonio Martino², Giusseppina Marzano³, Antonella Mastrorocco³, Giovanni Michele Lacalandra³, Augusto Carluccio¹, Domenico Robbe¹, Fiorenza Minervini⁴, Maria Elena Dell'Aquila⁴. ¹Faculty of Veterinary Medicine, University of Teramo, ²Dept. Veterinary Sciences, University of Torino, ³Dept. Biosciences, Biotechnologies & Biopharmaceutics, University of Bari Aldo Moro, Valenzano, Bari, ⁴Institute of Sciences of Food Productions (ISPA), National Research Council, Bari, Italy

(P16) *Intrauterine anaerobic microbiota in postpartum dairy cows.* Panagiotis Ballas¹, Karen Wagener², Marc Drillich², Monika Ehling-Schulz¹, ¹Institute of Microbiology, Department of Pathobiology, ²Clinical Unit for Herd Health Management in Ruminants, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Austria

(P17) *Evaluation of glycaemia in newborn puppies right after birth born via C-section.* Giulia Ballotta, Marco Cunto, Eleonora Anicito, Daniele Zambelli, Department of Veterinary Medical Sciences, Alma Mater Studiorum University of Bologna, Italy

(P18) *Sperm marker proAKAP4 ensures sperm quality in post-thawed stallion semen.* Didier Bloommaert¹, Thierry Franck², Jean Philippe Lejeune¹, Quentin DeWulf³, Nicolas Sergeant⁴, Didier Serteyn², Maryse Delehedde³, ¹Linalux, ²University of Liege, ³SPQI - 4BioDx, ⁴INSERM, France and Belgium

(P19) *Introducing White Suffolk breed into the EU with frozen embryo import - observations in connection with the outcome of the transferred embryos.* Szilárd Bodó¹, Nora Vass², István Egerszegi³, János Oláh², István Monori², András Jávorszky², Sandor Cseh⁴, ¹National Agricultural Research and Innovation Centre, ²University of Debrecen, ³Szent Istvan University, ⁴University of Veterinary Medicine Budapest, Hungary

(P20) *Uterine prolapse in mares – a review of 24 clinical cases.* Jenny Boye*, Ghislaine Dujovne William R. Pritchard Veterinary Medical Teaching Hospital, Department of Population Health and Reproduction, University of California, Davis, USA, *Currently: W'rsan Stables, Abu Dhabi, UAE

(P21) *The disadvantageous influence of high ambient temperatures on the fertility of Arabian stallions in The Middle East.* Younis Khan, Jenny Katrine Boye, Julio Guillermo Oriol, W'rsan stables, Abu Dhabi, UAE

(P22) *Timing of artificial insemination using fresh or frozen semen after automated activity monitoring of estrus in lactating dairy cows.* Stefan Borchardt¹, Augusto Madureira², Christie Marie Tippenhauer¹, Ronaldo Cerri², Jan-Lukas Plenio³, Wolfgang Heuwieser¹, ¹Freie Universitaet Berlin, Clinic of Animal Reproduction, Germany, ²University of British Columbia, Faculty of Land and Food Systems, Canada, ³Freie Universitaet Berlin, Institute for Veterinary Epidemiology and Biostatistics, Germany

(P23) *Effect of dose and timing of prostaglandin F2α treatments during a 7 d Ovsynch protocol on fertility in lactating Holstein cows.* Stefan Borchardt, Christie Marie Tippenhauer, Ilona Steinmetz, Wolfgang Heuwieser, Freie Universitaet Berlin, Clinic of Animal Reproduction, Berlin, Germany

(P24) *Application of erythrithol as an alternative cryoprotectant for stallion semen.* Sven Budik, Kathrin Schmidt, Christine Aurich, Artificial Insemination and ET, Vetmeduni Vienna, Austria

(P25) *The use of alginate beads for the vitrification of isolated bovine pre-antral follicles.* Anniek Bus, Jo Leroy, Peter Bols, Gamete Research Centre, University of Antwerp, Belgium

(P26) *Treatment of bacterial endometritis in mares: Practices in France.* Marie-Anne Campistron¹, Jean-Francois Bruyas², Sylvie Chastant-Maillard¹, ¹Toulouse National Veterinary School, ²ONIRIS, France

(P27) *Enrofloxacin crosses the equine placenta in early pregnancy without inducing gross lesions in the fetus.* Igor Canisso¹, Robyn Ellerbrock², Giorgia Podico¹, Patrick Roady¹, Fabio Lima¹, ¹University of Illinois Urbana-Champaign, ²University of Georgia, USA

(P28) *Influence of time of insemination on insemination success rate in dairy cows in a context of precision livestock farming.* Loïse Corbrion-Mouret, Claire Saby-Chaban, Amélie Mugnier, René Fournier, Sylvie Chastant-Maillard, Toulouse National Veterinary School, France

(P29) *Investigation of the use of cytobrush for cytological and bacteriological diagnosis of endometritis in mares.* Chiara Del Prete, Francesca Paola Nocera, Giuseppe Piegari, Luisa De Martino, Veronica Palumbo, Orlando Paciello, Maria Pia Pasolini, Department of Veterinary Medicine and Animal Productions, University of Naples Federico II, Italy

(P30) *Houbara bustard congenital abnormalities in captivity.* Andrea Dogliero, Palash Chandra Das, Imed Channoufi, Aymen Teyeb, Nizar Mlayeh, John Vass, Robert Fulton, Rawdat Al Faras Houbara Breeding Center, Doha

(P31) *Early pregnancy loss in the mare (EPL): The challenge in the equine breeding industry.* Hamed Farnia, Mehran Farhoudi Moghadam, Faculty of Veterinary Medicine, Islamic Azad University, Tehran, Iran

(P32) *Comparison of dilutors for high volume insemination and their impact on flow cytometric quality parameters of post thawed bull semen.* Magdalena Fuchs^{1,2}, Jakob Scherzer¹, Myriam Reichenbach¹, Christiane Otzdorff², Holm Zerbe², ¹Bayern-Genetik GmbH, ²Ludwig-Maximilians-Universität München, Germany

(P33) *Ovulation time in reference to time of luteolysis in cows.* Cyrielle Godart, Agathe Kerbiriou, Claire Saby-Chaban, Sylvie Chastant-Maillard, Toulouse National Veterinary School, France

(P34) *Effects of myo-inositol on oocyte in-vitro maturation and subsequent embryo development in cows.* Chiara Gorlani, Barbara Merlo, Eleonora Iacono, Department of Veterinary Medical Sciences, Alma Mater Studiorum University of Bologna, Italy

(P35) *Detection and evaluation of puerperal disorders in sows after farrowing.* Alexander Grahofner¹, Anja Meile², Heiko Nathues², ¹Animal Physiology, Institute of Agricultural Sciences, ETH Zurich, ²Clinic for Swine, Vetsuisse Faculty, University of Bern, Switzerland

(P36) *Effect of examination interval on likelihood of conception and early embryonic loss in mares after post-ovulatory artificial insemination with a single straw of frozen/thawed semen.* Isa Immonen¹, Juan Cuervo-Arango², Anthony Claes², Tom Stout², ¹University of Helsinki, Finland, ²Utrecht University, The Netherlands

(P37) *Relationship between passive immune transfer and a simplified score system for diagnosis of respiratory diseases in dairy calves.* Maria Jaureguiberry, Ramiro Rearte, Mauricio Giuliodori, Vanina Madoz, Fiorela Alvarado Pinedo, Rodolfo Luzbel de la Sota, Facultad de Ciencias Veterinarias, Universidad Nacional de La Plata & CONICET, Argentina

(P38) *Incidence and risk factors for endometritis in Irish grazing dairy cows.* Emmet Kelly, Conor McAloon, Luke O'Grady, Mary Duane, Joris Somers, Marijke Beltman, University College Dublin, Ireland

(P39) *Supplementation of breeding stallions with linseed oil influences the fatty acid composition of the sperm.* Martin Köhne¹, Manuela Wulf¹, Christina Nagel¹, Gabriele Dobeleit², Herbert Fuhrmann², Christine Aurich¹, ¹Vetmeduni Vienna/Graf Lehndorff Institute, ²Faculty of Veterinary Medicine, University of Leipzig, Germany

(P40) *Reducing examination frequency in mares inseminated with cryopreserved semen does not impair fertility.* Juliane Kuhl, Teresa Beyer, Christina Nagel, Christine Aurich, Vetmeduni Vienna, Austria

(P41) *Transfer of passive immunity in foals: timing and estimation of IgG concentration by refractometry.* Aliai Lanci, Chiara Del Prete*, Barbara Merlo, Nicola Ellero, Giuly Tonini, Carolina Castagnetti, Jole Mariella, Department of Veterinary Medical Sciences, Alma Mater Studiorum University of Bologna, *Department of Veterinary Medicine and Animal Productions, University of Naples, Italy

(P42) *Evaluation of the homogeneity of inflammation within the genital tract in cows.* Elodie Larroque, Marie-Noëlle Lucas, Anne Geffre, Hanna Mila, Laure Mouton*, Fabien Corbiere, Sylvie Chastant-Maillard, Toulouse National Veterinary School *Alfort National Veterinary School, France

(P43) *Effects of different centrifugation protocols on equine sperm quality.* Giuseppina Marzano (Dept. Mathematics and Physics E. de Giorgi, University of Salento and Institute of Nanotechnology, CNR NANOTEC), Natalina Moscatelli (Dept. Biological and Environmental Sciences and Technologies, University of Salento), Mariangela Di Giacomo (Dept. Biological and Environmental Sciences and Technologies, University of Salento), Nicola Antonio Martino (Dept. Biosciences, Biotechnologies & Biopharmaceutics, University of Bari Aldo Moro and Dept. Veterinary Sciences, University of Torino), Giovanni Michele Lacalandra (Dept. Veterinary Medicine, University of Bari Aldo Moro), Maria Elena Dell'Aquila (Dept. Biosciences, Biotechnologies & Biopharmaceutics, University of Bari Aldo Moro), Giuseppe Maruccio (Dept. Mathematics and Physics E. de Giorgi, University of Salento and Institute of Nanotechnology, CNR NANOTEC), Elisabetta Primiceri (Institute of Nanotechnology), Maria Serena Chiriaco (Institute of Nanotechnology, CNR NANOTEC), Vincenzo Zara (Dept. Biological and Environmental Sciences and Technologies, University of Salento), Alessandra Ferramosca (Dept. Biological and Environmental Sciences and Technologies, University of Salento)

(P44) *Alginate engineered cumulus-oocyte enclosing microbeads for modelling 3D oocyte maturation.* Antonella Mastrorocco (Department of Biosciences, Biotechnologies & Biopharmaceutics, University of Bari Aldo Moro), Ludovica Cacopardo (Research Centre E. Piaggio, University of Pisa; Department of Information & Engineering, University of Pisa), Nicola Antonio Martino (Department of Veterinary Sciences, University of Torino), Francesco Camillo (Department of Veterinary Sciences, University of Pisa), Diana Fanelli (Department of Veterinary Sciences, Università di Pisa), Elena Ciani (Department of Biosciences, Biotechnologies & Biopharmaceutics, University of Bari Aldo Moro), Giovanni Michele Lacalandra (Department of Veterinary Medicine, University of Bari Aldo Moro), Bernard A.J. Roelen (Department of Farm Animal Health, Faculty of Veterinary Medicine, Utrecht University), Arti Ahluwalia (Research Centre E. Piaggio, University of Pisa; Department of Information & Engineering, University of Pisa; IVTech Srl, Massarosa), Maria Elena Dell'Aquila (Department of Biosciences, Biotechnologies & Biopharmaceutics, University of Bari Aldo Moro)

(P45) *Antepartum endocrine and cardiac changes in equine pregnancies of different breeds.* Maria Melchert, Christine Aurich, Jörg Aurich, Christina Nagel, Vetmeduni Vienna, Austria

(P46) *Effect of supplemental probiotics on productive and reproductive performance of Holstein cows during hot season.* Zahra Merati¹, Armin Towhidi², Abbas Farshad¹, ¹University of Kurdistan, ²University of Tehran, Iran

(P47) *Semen collection in Amiata donkey jackasses treated with cloprostenol.* Duccio Panzani¹, Diana Fanelli¹, Alessandra Rota¹, Miguel Quaresma², Jordi Miró³, Igor Canisso⁴, Francesco Camillo¹, ¹Università di Pisa, ²Universidade de Tras-os-Montes e Alto Douro, Italy, ³University of Barcelona, Spain, ⁴University of Illinois Urbana-Champaign, USA

(P48) *Season variations in antioxidant enzyme activity in stallion and donkey seminal plasma.* Marion Papas¹, Laura Arroyo¹, Anna Bassols¹, Jaime Catalan¹, Sebastian Bonilla¹, Sabrina Gacem¹, Marc Yeste², Jordi Miró¹, ¹University of Barcelona, ²University of Girona, Spain

(P49) *Circulating insulin-like peptide 3 (INSL3) and testosterone dynamics in male dogs: Is INSL3 an endocrine marker of Leydig cell function in canine geriatrics?* Indunil Pathirana et al., Sri Lanka

(P50) *Immunocontraception as a possible tool to reduce feral pig populations: recent and future perspectives.* Olli Peltoniemi, Lena Lindh, Claudio Oliviero, University of Helsinki, Finland

(P51) *Dose dependent effect on contraception in a canine species with aromatase inhibitor Finrozole* Olli Peltoniemi et al., Finland

(P52) *Endocrinology and ultrasound findings of two experimental models for early fetal loss in mares.* Giorgia Podico¹, Igor Canisso¹, Robyn Ellerbrock², Vitor Mercadante³, Fabio Lima¹, ¹University of Illinois Urbana-Champaign, ²University of Georgia, ³Virginia Polytechnic Institute and State University, USA

(P53) *Endometrial messenger RNA expression of pro-inflammatory factors and mucins at five different endometrial sites of cows with different uterine health status.* Harald Pothmann¹, Paula Flick¹, Christoph Gabler², Marc Drillich¹, ¹University of Veterinary Medicine Vienna, Austria, ²Freie Universitaet Berlin, Institute of Veterinary Biochemistry, Germany

(P54) *Late embryonic losses in supplemented grazing lactating dairy cows: risk factors and reproductive performance.* Luis Quintero Rodriguez, Ramiro Rearte, German Dominguez, Rodolfo Luzbel de la Sota, Vanina Madoz, Mauricio Giuliodori, Facultad de Ciencias Veterinarias, Universidad Nacional de La Plata & CONICET, Argentina

(P55) *Diagnostic value of vaginal cytological examination for the diagnostic of genital inflammation in cows.* Martin Roumegous, Romain Muhlach, Anne Geffre, Fabien Corbiere, Sylvie Chastant-Maillard, Toulouse National Veterinary School, France

(P56) *Ovarian resumption of cyclicity in Holstein cows: field description thanks to milk progesterone in line measurements.* Claire Saby-Chaban, René Fournier, Sylvie Chastant-Maillard, Toulouse National Veterinary School, France

(P57) *Detection of Serum Amyloid A as a marker of the uterine innate immune response in stimulated equine endometrial explants in vitro.* Schlömer-von Düsterloh F^{1,2}, Hahn K¹, Fux R³, Giessler KS¹, Goehring LS¹, Witte TS¹, ¹Equine Hospital, Ludwig-Maximilians-University Munich, Germany, ²Clinic for horses, Parsdorf, Germany, ³Institute for Infectious Diseases and Zoonoses, Ludwig-Maximilians-University Munich, Germany

(P58) *An approach to hysteroscopic catheterization of the equine oviduct.* Anna Tönißen¹, L. Müller-Stephan^{1,2}, D. Tiedemann¹, J. Rau¹, H. Sieme¹, ¹Unit for Reproductive Medicine – Clinic for Horses, University of Veterinary Medicine Hannover, Hannover, Germany, ²National Stud Lower Saxony, Celle, Germany

(P59) *Evaluation of serum calcium dynamics within the first three days after parturition and the associated risk of acute puerperal metritis.* Peter Venjakob¹, Rudolf Staufienbiel², Wolfgang Heuwieser¹, Stefan Borchardt¹, ¹Clinic for Animal Reproduction, Faculty of Veterinary Medicine, Freie Universität Berlin, ²Ruminant Clinic, Faculty of Veterinary Medicine, Freie Universität Berlin, Germany

(P60) *Interleukin 8 mRNA expression in the endometrium of cows at the time of artificial insemination has the potential to predict pregnancy.* Karen Wagener¹, Marc Drillich¹, Christoph Gabler², ¹Clinical Unit for Herd Health Management in Ruminants, Department for Farm Animals and Veterinary Public Health, University of Veterinary Medicine Vienna, Austria, ²Institute of Veterinary Biochemistry, Department of Veterinary Medicine, Freie Universität Berlin, Germany