

## TIME

## SUNDAY 9TH JULY 2023

2:00 PM- 6:00 PM

REGISTRATION, FOYER SONATA AND MAESTRA

2:00 PM- 6:00 PM

SET UP OF POSTERS, FOYER SONATA AND MAESTRA

7:00 PM - 9:00 PM

WELCOME RECEPTION, BARDANA GRILL

## TIME

## MONDAY 10TH JULY 2023

7:30 AM - 8:30 AM

BREAKFAST, COLLECTION BUILD

7:30 AM - 8:30 AM

SET UP OF POSTERS, FOYER SONATA AND MAESTRA

8:30 AM - 8:45 AM

WELCOME - Claudia Fernandes and Christine Aurich, SONATA 2 ROOM

8:45 AM - 9:15 AM

HONORARY CHAIR AND LIFETIME ACHIEVEMENT AWARDEES - INTRODUCED BY Christine Aurich,  
SONATA 2 ROOM

9:15 AM - 10:15 AM

SESSION I Assisted Reproductive Techniques I - CHAIR: Sandra Wilsher, SONATA 2 ROOM

269 Alejandro de la Fuente, USA: Gene expression of equine oocytes and cumulus cells, a window  
to the unknown

273 Marcio do Carmo, Brazil: A combination of GnRH-hCG to aged mares improves embryo recovery

76 Javier Funes, UAE: Cervix-deep rectal temperature differential on the day of ovulation is  
correlated with embryo recovery results256 Luisa Ramirez-Agamez, USA: A study on methods for preimplantation genetic diagnosis on  
equine embryos

10:15 AM - 11:15 AM

BREAK AND POSTER SESSION I (Posters #1-#21), FOYER SONATA AND MAESTRA

11:15 AM - 12:30 PM

SESSION II Stallion I - CHAIR: Charles Love, SONATA 2 ROOM

153 Terje Raudsepp, USA: Genomic studies of Thoroughbred stallion 'idiopathic' subfertility

186 Regina Turner, USA: Altered expression of necroptotic, angiogenic and spermatogenic proteins  
in degenerate testes from aged stallions

212 Roisin Griffin, Australia: Age-related DNA damage in stallions: an ongoing investigation

151 Camilo Hernandez-Aviles, USA: The acrosome proteins arylsulfatase F and zona pellucida-bind-  
ing protein 2 are candidate markers associated with Impaired Acrosomal Exocytosis in sperm from  
subfertile Thoroughbred stallions

51 Anne Josson, France: Successful non-surgical treatment of priapism in a breeding stallion

12:30 PM - 2:00 PM

LUNCH, BOMELIA RESTAURANT

2:00 PM - 3:30 PM

SESSION III Non-pregnant Mare I - CHAIR: Patrick McCue, SONATA 2 ROOM

32 Babiche Heil, USA: Metagenomic characterization of the equine endometrial microbiome during  
anestrus

226 Natali Krekeler, Australia: Association of the uterine microbiome to mare fertility

91 Sabrina Bellaver Cousseau, Brazil: Influence of sperm viability on uterine leukocyte chemotaxis

53 Mats Troedsson, USA: Impact of seminal plasma on the equine endometrial transcriptome

146 Kianna Spencer, USA: Uterine inflammatory response, embryo recovery and morphometry in interspecies breeding

82 Karen Wolfsdorf, USA: Post-breeding intrauterine infusion of dehydrated amnion product produces similar pregnancy rates as antibiotics

3:30 PM - 4:30 PM

BREAK AND POSTER SESSION II (Posters #22-#42), FOYER SONATA AND MAESTRA

4:30 PM - 5:30 PM

SESSION IV Pregnant Mare I - CHAIR: Mandi de Mestre, SONATA 2 ROOM

94 Aleona Swegen, Australia: Embryo-maternal interactions revealed by phosphoproteomic analysis of endometrial organoids exposed to embryo secretome

163 Tharangani Perera, Australia: Early pregnancy associated changes in systemic lipid profiles of mares revealed by high resolution mass spectrometry

157 Thadeu de Castro, USA: Embryo-maternal interaction is associated with the location of the embryo during the mobility phase in mares

90 Justin McNaughten, USA: Effect of mid-diestrus oxytocin treatment on early pregnancy in the mare

7:00 PM

DINNER, ARANDA RESTAURANT

TIME

TUESDAY 11TH JULY 2023

6:30 AM - 7:00 AM

5K RUN

7:30 AM - 8:30 AM

BREAKFAST, COLLECTION BUILD

8:30 AM - 10:00 AM

SESSION V Parturition and Foal I - CHAIR: Claudia Fernandes, SONATA 2 ROOM

121 Humberto Magalhaes, USA: Mammary gland secretions conductivity alone or coupled with pH as a novel and accurate predictor of foaling and its associations with electrolytes

125 Igor Canisso, USA: Doxycycline hyclate to late-term pregnant mares: pharmacokinetics, diffusion to the fetoplacental unit and safety to the resulting foal

222 Rebecca Mouncey, UK: Early-life limb deformities in Thoroughbred foals and investigation of their associations with mare- and pregnancy-related factors

242 Lutz Goehring, USA: Minimal vertical transmission of Equid alphaherpesvirus 1 (EHV-1) in normal developing foals during a naturally occurring abortion outbreak

62 Pascale Chavatte Palmer, France: Obesity during pregnancy in the horse: effect on term placental structure and gene expression, as well as colostrum and milk fatty acid concentration

12 Anna Vaske, Austria: Colostral transfer of tumor necrosis factor- $\alpha$  to neonates is not associated with their health status

10:00 AM - 11:00 AM

BREAK AND POSTER SESSION III (Posters #43-#63), FOYER SONATA AND MAESTRA

11:00 AM - 12:30 PM

SESSION VI Stallion II - CHAIR: Paul Loomis, SONATA 2 ROOM

6 Fernando Pena, Spain: Pyruvate enhances stallion sperm function increasing glycolysis efficiency through NAD<sup>+</sup>

280 Marco Alvarenga, Brazil: Phosphatidilcholine is associated with semen cooling ability of Mangalarga Marchador stallions

28 Isabelle Barriere Battut, France: Bacterial development in semen stored at room temperature in INRA96®

34 Lorenzo Segabinazzi, Saint-Kitts and Nevis: An alternative method to circumvent poor semen cooling and fertility of stallions

79 Ashlee Medica, Australia: A novel method for isolation of functional stallion spermatozoa for artificial insemination

77 Pack Malaluang, Sweden: Colloid centrifugation as an alternative to antibiotics in stallion semen preparation

12:30 PM - 2:00 PM

LUNCH, BOMELIA RESTAURANT

2:00 PM - 3:15 PM

SESSION VII Assisted Reproductive Techniques II - CHAIR: Marta de Ruyter Villani, SONATA 2 ROOM

96 Fernando Campos Chillon, USA: Equine ICSI, the ultimate blind date: is cooled semen increasing embryo production?

40 Christian Carrera, Mexico: Prolonged maturation reduces cleavage and blastocyst rates after ICSI

165 Lee Morris, New Zealand: The relationship between grade and metabolism for in vivo and ICSI derived embryos

185 Veronica Scheeren, The Netherlands: Centrosome fragmentation and malposition is common in the first cell division of equine ICSI embryos

255 Tom Stout, The Netherlands: In vitro-produced equine blastocysts exhibit dispersed ICM cell allocation

3:15 PM - 4:15 PM

BREAK AND POSTER SESSION IV(Posters #64-#85), FOYER SONATA AND MAESTRA

4:15 PM - 5:30 PM

SESSION VIII Non-pregnant Mare II - CHAIR: Rodrigo Mattos, SONATA 2 ROOM

137 Kirstin Scoggin, USA: Identification of endometrial biofilm-specific proteins for in vivo diagnostics

69 Theresa Bachler, USA: Concentrations of penicillin and gentamicin following intrauterine administration of two compounded formulations

118 Martin Köhne, Germany: Isolation and characterization of bacteriophages specific to selected equine genital pathogens

215 Mariana Mazzuchini, USA: Antimicrobial activity of alternative therapies for microorganisms causing chronic endometritis in mares

254 Shavan Loux, USA: Intrauterine vitamin D3 improves inflammation resolution in mares susceptible to persistent breeding-induced endometritis

7:00 PM - 8:00 PM

DINNER, ARANDA RESTAURANT

8:00 PM - 9:30 PM

WORKSHOP, SONATA 2 ROOM AND CANTATA ROOM

TIME

WEDNESDAY 12TH JULY 2023

7:30 AM - 8:30 AM

BREAKFAST, COLLECTION BUILD

8:30 AM - 10:00 AM

SESSION IX Non-pregnant Mare III - CHAIR: Lee Morris, SONATA 2 ROOM

50 Joana Alpoim-Moreira, Portugal: Decitabine effect on COL1, COL3, MMP2 and MMP9 in TGF- $\beta$ 1 treated mare endometrial fibroblasts

93 Luiz Augusto Machado Centeno, Brazil: Endometrial fibrosis in mares: Picrosirius Red and Collagen-2 and 3

98 Natacha Muderspach, Denmark: Are degenerative changes in a single endometrial biopsy representative for the endometrial state?

224 Sonia Pernilla Hernandez, Belgium: Immunohistochemical expression of myeloperoxidase in the equine endometrium suffering from endometrosis

254 Shavan Loux, USA: Intrauterine vitamin D3 improves inflammation resolution in mares susceptible to persistent breeding-induced endometritis

290 Yame Sancler-Silva, Brazil: Does the uterine inflammatory response differ between mares and donkey jennies inseminated with frozen donkey semen?

10:00 AM - 11:00 AM	BREAK AND POSTER SESSION V (Posters #86-#105), FOYER SONATA AND MAESTRA
11:00 AM - 12:30 PM	SESSION X Assisted Reproductive Techniques III - CHAIR: Harald Sieme, SONATA 2 ROOM 115 Tine Coster, Belgium: Simultaneous genome-wide haplotyping and copy number detection enabling PGT-A and PGT-M in equine in vitro produced embryos 67 Matheus Felix, USA: Selection of frozen-thawed semen for standard in vitro fertilization 102 Pedro Oquendo, Brazil: Estradiol treatment prior to progesterone favors embryo survival in anestrous recipient mares 123 Guilherme Couto, UAE: Embryo recovery on consecutive days from Day 6.5 to obtain small embryos for vitrification: Is it effective? 275 Charles Love, USA: The effect of sex-sorting on stallion semen quality 130 Juan Samper, USA: Fertility of conventional and of sex-sorted stallion sperm using SexedULTRA™ Genesis III technology
12:30 PM - 2:00 PM	LUNCH, BOMELIA RESTAURANT
2:00 PM - 5:30 PM	CATARATAS NATIONAL PARK AND OFICIAL PHOTO
6:30 PM - 10:00 PM	DINNER AND SHOW, RAFAIN CHURRASCARIA

## TIME

## THURSDAY 13TH JULY 2023

7:30 AM - 9:00 AM	BREAKFAST, COLLECTION BUILD
9:00 AM - 10:00 AM	SESSION XI Parturition and Foal II - CHAIR: Beatriz Bringel, SONATA 2 ROOM 85 Riley Thompson, USA: Evaluation of chorionic girdle organoids for ultrastructure and equine Chorionic Gonadotropin production 248 Viviane Gomes, USA: Molecular mechanisms underlying equine endometrial cup regression: a transcriptomic analysis 75 Carleigh Fedorka, USA: Utilizing an immunostimulant (MCWF; Settle) to hasten the degradation of endometrial cups 80 Maria Melchert, Austria: Possible involvement of somatotrophic hormones in the postpartum regulation of ovarian activity in mares
10:00 AM - 11:00 AM	BREAK AND POSTER SESSION VI (Posters #106-#126), FOYER SONATA AND MAESTRA
11:00 AM - 12:30 PM	SESSION XII Pregnant Mare II - CHAIR: Karen Wolfsdorf, SONATA 2 ROOM 111 Philip Weldon, UK: Multivariable analysis to investigate factors associated with day 14-16 pregnancy rates in Thoroughbred mares on an intensively managed UK stud farm 132 Mandi de Mestre, UK: Microdeletions on chromosomes 2 and 20 are associated with equine early pregnancy loss 194 Margo Verstraete, USA: An in vitro model for equine placental research 58 Emilie Derisoud, France: Placental gene expression reveals reduce angiogenesis in primiparous mares 257 Joanna Jaworska, Poland: Endometrial immune cells at the time of implantation in mares – preliminary results 191 Machteld van Heule, Belgium: The placental microbiome during nocardiform placentitis

12:30 PM - 2:00 PM	LUNCH, BOMELIA RESTAURANT
2:00 PM - 3:30 PM	SESSION XIII Stallion IV - CHAIR: Zamira Gibb, SONATA 2 ROOM  WORKSHOP, SONATA 2 ROOM AND CANTATA ROOM  193 Vincent Mevel, France: Effect of anti-GnRH vaccine on testicular tissues in stallion 84 Camille Gautier, Austria: Endocrine changes induced by GnRH immunization and re-stimulation of testicular function with a GnRH agonist in stallions 68 Mariana Caldevilla, Argentina: Evaluation of equine semen frozen in extenders free of animal proteins 281 Paul Loomis, USA: The effect of residual pellet volume on cryoprotectant concentration and post-thaw motility of stallion sperm 160 Amr El-Shalofi, Austria: Quality of the frozen equine semen stored in different shipping containers for 14 days
3:30 PM - 4:30 PM	BREAK AND POSTER SESSION VII (Posters #127-#147), FOYER SONATA AND MAESTRA
4:30 PM - 5:30 PM	SESSION XIV Non-pregnant Mare IV - CHAIR: Luis Losinno, SONATA 2 ROOM  33 Fernanda Ignácio, Brazil: Follicular fluid and plasma concentrations of progesterone following hCG administration before ultrasound-guided ablation of dominant follicles $\geq 25$ mm in mares 78 Victoria Bailey, USA: Characterization and colocalization of thyroid stimulating hormone and melatonin receptors in the pars tuberalis of mares during the breeding and non-breeding seasons 81 Elisa da Silva, Brazil, Plasma estradiol profile after administration of different types of estradiol esters in acyclic mares 156 Shizhen Dai, China: Integration analysis of metabolome and transcriptome reveals the effect of arachidonic acid on hemorrhagic anovulatory follicles in jennies
7:00 PM - 8:00 PM	DINNER, ARANDA RESTAURANT
8:00 PM - 9:30 PM	WORKSHOP, SONATA 2 ROOM AND CANTATA ROOM
9:30 PM - 10:30 PM	GIN AND SAMBA HOUR (IN HONOR TO TWINK ALLEN)

## TIME

## FRIDAY 14TH JULY 2023

7:30 AM - 9:00 AM	BREAKFAST, COLLECTION BUILD
9:00 AM - 10:00 AM	JOHN HUGHES MEMORIAL LECTURE - Flavio Mireilles, Brazil, SONATA 2 ROOM (CHAIR: Christine Aurich)
10:00 AM - 11:00 AM	BREAK AND POSTER SESSION VIII (Posters #148-#166), FOYER SONATA AND MAESTRA
11:00 AM - 12:30 PM	SESSION XIV Assisted Reproductive Techniques IV- CHAIR: Gustavo Carneiro, SONATA 2 ROOM  129 Patrick MacCue, USA: Recombinant equine FSH superovulation in the mare 237 Bart Leemans, The Netherlands: Inducing ciliation in equine oviduct epithelial cell monolayers 55 Jenin Cortez Polan, Australia: Pre-maturation of oocytes for equine cloning using cAMP modulators 214 Edwina Lawson, Australia : Deciphering the influence of mare oviductal organoid secretions on equine spermatozoa

103 Fernando Riera, Argentina: Embryo biopsy and vitrification applied to a commercial embryo transfer program in Argentina

161 Katrien Smits, Belgium: Vitrification and direct warming in iso-osmotic holding medium of equine in vitro embryos supports competitive pregnancy rates

12:30 PM- 2:00 PM

LUNCH, BOMELIA RESTAURANT

2:00 PM - 3:00 PM

Session XV: ISER - Current and future developments

11:00 AM - 12:30 PM

Angus McKinnon: ISER Global Education - the ISER "How to" Webinar series

2:30 PM - 3:00 PM

Edward Squires: Development of ISER into a scientific society

3:00 PM - 4:00 PM

BREAK: FOYER SONATA AND MAESTRA

4:00 PM - 4:30 PM

Closing of the conference and announcement of venue for ISER XIV; Awards to early career scientists. Introduced by Christine Aurich

ACKNOWLEDGMENTS, Claudia Fernandes, SONATA 2 ROOM

8:00 PM - 12:00 AM

DINNER AND PARTY, SONATA 3

**TIME**

**SATURDAY 15TH JULY 2023**

6:30 AM - 10:00 AM

BREAKFAST AND DEPART