



# 2021 Annual Conference Agenda

## **Wednesday, July 21**

**Opening Session Abstracts**

**Opening Session Reception**

**Reproductive Pathology Symposium (additional registration required)**

**Zoological Species Theriogenology Symposium (additional registration required)**

**Student Seminar: Critical Thinking in Practice: What does it look like?**

### **Reproductive Pathology Symposium**

*(additional registration required)*

8:00 am - 5:00 pm

**Introduction**

*Christopher Premanandan, DVM, PhD, DACVP, DACT*

**General concepts in failure of pregnancy**

*Christopher Premanandan, DVM, PhD, DACVP, DACT*

**Equine/Camelid failure of pregnancy**

*Robert A. Foster, BVSc, PhD, MANZCVS, DACVP*

**Ruminant failure of pregnancy**

*Dalen Agnew, DVM, PhD, DACVP*

**Canine/Feline failure of pregnancy**

*Robert A. Foster, BVSc, PhD, MANZCVS, DACVP*

**Round table Q/A session**

*Drs. Agnew, Foster, and Premanandan*

**General concepts in perinatal mortality**

*Christopher Premanandan, DVM, PhD, DACVP, DACT*

**Ruminant perinatal mortality**

*Robert A. Foster, BVSc, PhD, MANZCVS, DACVP*

**Equine/Camelid perinatal mortality**

*Dalen Agnew, DVM, PhD, DACVP*

**Canine/Feline perinatal mortality**

*Drs. Agnew and Premanandan*

**Case based roundtable/discussion**

*Drs. Agnew, Foster, and Premanandan*

### **Zoological Species Theriogenology Symposium**

*(additional registration required)*

7:30 am - 4:30 pm

**Welcome**

**Overview of traditional and novel approaches to amphibian reproduction in zoological institution**

*Jessi Krebs, OHDZA Curator of Reptiles and Amphibians*

**Birds-General husbandry as it pertains to reproduction**

*M. Scott Echols, DVM, DABVP (Avian Practice)*

**Birds- Common reproduction problems and diseases**

*M. Scott Echols, DVM, DABVP (Avian Practice)*

**Overcoming reproductive disorders in female greater one-horned rhinoceros (*Rhinoceros unicornis*) to improve artificial insemination and natural breeding success**

*Monica Stoops, MS, PhD Lead Scientist, Comparative Endocrinology OHDZA*

**Assisted reproductive technologies for endangered felids**

*Jason Herrick, PhD, Director of Reproductive Services*

**Zoo Clinical Challenge- Gorilla infertility**

*Anneke Moresco, DVM, PhD, Zoo Reproductive Specialist*

**Current understanding of elephant reproduction**

*Dennis Schmitt, DVM, PhD, DACT*

**Application of domestic dog theriogenology practice in wild canids**

*Bruce Christensen, DVM, MS, DACT*

**Avian reproductive tract diseases**

*M. Scott Echols, DVM, DABVP (Avian Practice)*

**Developing assisted reproduction for reptiles, what's next?**

*Sean Perry, DVM, PhD*

Attendees will have the options of attending a seminar by Drs. Echols and Perry discussing “*Advanced topics in reptile and avian reproduction*” or traveling to the Henry Doorly Zoo and Aquarium for a behind the scenes tour.

### **Student Seminar**

1:00 pm - 5:00 pm

Critical Thinking in Practice: What does it look like?  
*Juan Samper, DVM, PhD, DACT*

### **Opening Session Abstracts**

Luteinizing hormone receptor activation stimulates endothelial adhesion of neoplastic canine T-lymphocytes  
*Alexa Dietz*

Suitability of non-cycling recipient mares for in vitro produced equine embryos  
*Charles Scoggin, DVM, MS, DACT*

The temporal associations of B-mode, Power doppler, and ovarian steroid changes of the periovulatory follicle and corpus luteum during luteogenesis and luteolysis in jennies  
*Humberto Magalhaes, DVM, MSc*

Cholesterol-loaded cyclodextrin improves cooling and fertility of donkey semen  
*Lorenzo Segabinazzi, DVM, MS*

Characterization of reproductive parameters from Pennsylvania bull elk (*Cervus canadensis*)  
*Luisa Ramirez-Agamez, DVM*

Serum prostaglandin E metabolite (PGEM) in diestrus and pregnant mares  
*Mariana Diel de Amorim, DVM, DVSc, PhD, DACT*

Expression and abundance of prostaglandins in the healthy and fibrotic mare endometrium  
*Michael Byron, MSc*

Umbilical vein catheterization as an option for intravenous access in neonatal puppies  
*Soon Hon Cheong, DVM, PhD*

### **Thursday, July 22**

#### **Bartlett Award and Address**

#### **Theriogenologist of the Year Award and Address**

#### **Dr. Jerry Rains Memorial Abstract Competition**

*sponsored by Merck Animal Health*

#### **SFT Business Meeting**

#### **ACT Business Meeting**

#### **Student Case Presentations**

#### **Student Research Presentations**

### **Student/Mentor Reception**

#### **Opening Reception in the Exhibit Hall**

*sponsored by Vetoquinol, Inc.*

#### **Dr. Jerry Rains Memorial Abstract Competition**

*sponsored by Merck Animal Health*

Comparison of nanoparticles and single-layer centrifugation for separation of dead from live stallion spermatozoa  
*Christian Bisiau, DVM*

No adverse effect of air exposure on stallion sperm motility after 48 hours of cooled storage  
*Emily May, DVM*

Epididymal sperm granulomas are associated with antisperm antibodies in frozen-thawed donkey semen  
*Giorgia Podico, DVM, MSc*

Laser ablation of the equine oviductal papilla as a novel contraceptive technique  
*Grace Edwards*

Clinical and physiological ultrasonography of normal and abnormal donkey pregnancies  
*Humberto Magalhaes, DVM, MSc*

Comparing serum progesterone measurements by a point-of-care analyzer with a chemiluminescent immunoassay in breeding management of the bitch  
*Julia Zuercher*

Mammary gland electrolytes and pH to detect impending parturition in jennies  
*Lucas Canuto, DVM, MSc*

The effects of Kisspeptin-10 on equine chorionic girdle trophoblast cell in vitro migration  
*Viviane Gomes, DVM, DACT*

#### **Student Case and Research Presentations**

*sponsored by Bovine Services, LLC.*

Incidence of and factors affecting congenital defects in miniature Dachshunds  
*Colleen Kutzler*

Electroejaculation and breeding soundness exam on a clouded leopard  
*Taylor Lashlee*

Preputial prolapse and injury in a Brahman bull  
*Maryanna Hudson*

Atypical mammary mass in an intact geriatric female Labrador retriever  
*Colleen Kutzler*

Abnormal mobility in neonatal Labrador Retrievers

*Jordan Farrell*

Recurrent uterine torsion in an Arabian mare

*Vaiva Palunas*

Dystocia and diaphragmatic hernia in a Quarter Horse mare carrying twins

*Vaiva Palunas*

Vulvar discharge associated with exogenous estrogen exposure in a spayed Weimaraner bitch

*Camille Ogdon*

Phimosis and preputial abscessation with draining tract in an Angus bull

*Rachael Doenges*

Spermatic cord torsion in an Arabian stallion

*Hannah Neer*

### **Friday, July 23**

#### **Plenary Session**

#### **Scientific Abstract Presentations**

#### **Scientific Abstract Poster Presentations**

#### **Species Tracks**

#### **Awards Dinner Reception**

#### **Awards Dinner, Veterinary Story Night, & Live Auction**

*sponsored by Merck Animal Health*

#### **Plenary Session**

*sponsored by the American College of  
Theriogenologists*

History of the ACT: Celebrating 50 Years

*John Kastelic, DVM, MS, PhD, DACT*

Surrogate sires: A next generation breeding tool in livestock production

*Jon Oatley, MS, PhD*

#### **Case Abstracts**

Reduction of equine monozygotic twins using craniocervical dislocation via colpotomy

*Adam Bassett, DVM, MS*

Proteomic analysis of sperm from a subfertile stallion with impaired acrosomal exocytosis

*Camilo Hernandez-Aviles, DVM*

Anaphylactic reaction following intrauterine application of misoprostol in a Friesian mare

*Jordan Kiviniemi-Moore, DVM*

Polled intersex syndrome in a four month old Finnish Landrace lamb

*Katelyn Waters, DVM*

Chronic seminal vesiculitis and blocked ampullae in a Gypsy Vanner stallion

*Lauren Huggins, VMD, MS*

Thoraco-omphalopagus conjoined twins in a Standardbred mare

*Matthew Cochran, DVM*

Next-Generation Sequencing to aid decision making for when to discontinue antibiotic treatment in a Stallion with *Actinomyces* spp. in semen

*Soon Hon Cheong, DVM PhD*

Thromboembolic disorder in a post-cesarean section bitch

*Yamilka Lago-Alvarez, DVM*

### **Equine Abstracts**

Low volume uterine lavage: advantages for use in problem mares

*Christina Divine, DVM*

Pre-partum amniotic rupture in a Thoroughbred mare

*David Alexander, DVM*

Daily sperm out, spermatogenic efficiency, and sexual behavior of donkey jacks mounting jennies in estrus

*Humberto Magalhaes, DVM, MSc*

Pregnancy rates and ovarian activity following uterotubal infusion of n-butyl cyanoacrylate via a hysteroscopic approach in mares: a pilot study

*Irwin Liu, BSc, DVM, PhD*

Oocyte collection rate and in vitro embryonic development in the mare with administration of low-dose deslorelin

*Jennifer Hatzel, DVM, MS, DACT*

Evaluation of passively acquired rabies antibody titers and immune responses in healthy foals vaccinated against at 4 or 6 months of age

*Karen Wolfsdorf, DVM, DACT*

Prospective ultrasonographic evaluation of the caudal placenta and cervix in pregnant mares in relationship to foaling outcomes and placental abnormalities

*Kristina Lu, VMD, DACT*

The use of progesterone and estradiol-17-beta prior to transvaginal aspiration of oocytes

*Peyton Draheim, DVM*

## **Mixed Species Abstracts**

Using reflection to optimise student engagement during theriogenology practical classes; the benefits of mentoring and peer support in teaching

*Allan Gunn, BVM&S, DACT, FRCVS*

Screening canine sera for smooth Brucella strain antibodies via Brucella abortus Fluorescent Polarization Assay

*Alyssa Helms, DVM*

Sperm acrosome associated 3 protein expression in the feline ovary decreases with age

*Ann Ramsey*

Infertility, pregnancy, and concurrent pyometra in a Greater Swiss Mountain Dog

*Brittany Shumack, DVM*

Fetal loss at time of elective cesarean section in a Greater Swiss Mountain Dog

*Brittany Shumack, DVM*

The agreement level among four techniques for analysis of stallion sperm morphology

*Camilo Hernandez-Aviles, DVM*

Factors affecting survival and future foaling rates in thoroughbred mares with hydrops

*Louise Lemonnier, DVM*

Vaginal vault diverticulum causing functional urinary obstruction in a maiden bitch

*Marthina Greer, DVM*

Comparison of 2D and 3D ultrasonography for gestational aging in dogs

*Sabina Pestelacci, DVM*

## **Production Animal Abstracts**

Melatonin and l-arginine mitigate heat stress-induced reductions in quality of frozen-thawed ram sperm

*Abdallah Mohamed, BVSc, MSc*

An example of incorrect storage of bull semen samples on spermogram assessment

*Allan Gunn, BVM&S, DACT, FRCVS*

Association of metabolic status with uterine diseases and reproductive outcomes in lactating Holstein dairy cows

*Andrew Hubner, DVM*

Effect of GnRH administered at the time of AI for dairy cows detected in estrus by an activity monitoring system or by conventional estrus detection

*Andrew Hubner, DVM*

Evaluation of ovarian response to PG600 in alpacas

*Eduardo Arroyo, DVM*

Morphometric characteristics, testicular histology, and semen parameters of two mature hybrid bucks born from white-tailed deer dams sired by a mule deer buck

*Giorgia Podico, DVM, MSc*

A preliminary study on bovine prenatal sex determination using PCR on maternal peripheral blood

*Navgeet Singh, BVSc & AH, MVSc*

Obstructive urolithiasis in a Dromedary camel

*Yatta Boakari, DVM, MS, PhD*

## **Abstract Poster Presentations**

Ovine male pseudohermaphrodite (Katahdin) with testes adjacent to the mammary gland

*Alyssa Ball, DVM, MS*

Reproductive tract findings in a Thoroughbred filly with non-patent uterus, considered congenital failure of a normal uterine lumen

*Christine Bartley, DVM*

Identification of fetal bones in the uterus of a Thoroughbred mare

*Ethan Sutherland, DVM*

Respective pregnancy rates and subsequent pregnancy losses of in-vitro produced embryos from oocytes aspirated at two facilities, transported to 3 commercial ICSI labs and resulting embryos transported and transferred at two commercial recipient herds

*Etta Bradecamp, DVM, DACT, DABVP*

Luteal blood flow and side effects of luteolytic doses of dinoprost tromethamine and cloprostenol sodium in jennies

*Humberto Magalhaes, DVM, MSc*

Induction of parturition in a late gestation Thoroughbred broodmare with colon displacement

*Lauren Pasch, DVM, DACT*

Methods to prepare platelet-rich plasma for use in mare practice

*Lorenzo Segabinazzi, DVM, MS*

Sperm-filter enhanced semen parameters and fertility of stallion poor cooled semen

*Lorenzo Segabinazzi, DVM, MS*

Intra-uterine injection of amnion-derived acellular bioscaffold product in mares, a description of systemic and intra-uterine effects over 21 days

*Nathaniel Newton, DVM,*

Incidence rate of reproductive problems in non-pregnant mares

*Patrick McCue, DVM, PhD, DACT*

Effect of Hytryl on fresh-cooled semen motility in two semen extenders when stored at 5 degrees Celsius for 72 hours

*Rachel Fladung, DVM*

Uterus unicornis in a maiden Standardbred mare

*Stephanie Walbornn, DVM, DACT*

### **Small Animal Track**

**sponsored by IDEXX**

Reproductive biology and assisted reproductive technologies in felids

*Nucharin Songsasen, DVM, PhD*

Current and future perspective of reproductive technologies in domestic and wild canids

*Nucharin Songsasen, DVM, PhD*

Comparison of OFA and PennHIP results for canine hip dysplasia screening

*Robyn Wilborn, DVM, DACT*

*sponsored by Purina*

### **Production Animal Track**

**sponsored by Lane Manufacturing, Inc.**

Single cell transcriptomics to understand germ cell function in livestock

*Jon Oatley, MS, PhD*

Pregnancy loss in ruminants

*Andres de la Concha, DVM, PhD*

Bovine trichomoniasis

*Jeff Ondrak, DVM, MS*

### **Equine Track**

**sponsored by Rood & Riddle Equine Hospital and Sonosite, A Fujifilm Company**

Examination of fresh, cooled and frozen semen

*sponsored by the Michelle LeBlanc Equine Memorial Lectures*

*Charles Love, DVM, PhD*

The use of immunomodulators in equine reproduction: How do they work and when should they be used

*Carleigh Fedorka, PhD*

Use of nonantibiotic therapies for endometritis: What, when, and why

*Kristina Lu, VMD, DACT*

## **Saturday, July 24**

**So you want to become a Diplomat?**

**Species Tracks**

**Small Animal Track**

**Small Animal Track**

**sponsored by IDEXX**

Medical control of reproduction in the bitch: an update

*Alain Fontbonne, DVM, PhD, DECAR*

Medical control of reproduction in the male dog: the experience of Alfort Veterinary College

*Alain Fontbonne, DVM, PhD, DECAR*

Medical control of reproduction in the cat: old and new drugs

*Cindy Maenhoudt, DVM, DACT, DECAR*

Use of anti-progestins in Europe

*Cindy Maenhoudt, DVM, DACT, DECAR*

Is there a future for surgical contraception in the dog

*Alain Fontbonne, DVM, PhD, DECAR*

Small animal neonatology I

*sponsored by Purina*

*Robyn Wilborn, DVM, DACT*

Small animal neonatology II

*sponsored by Purina*

*Robyn Wilborn, DVM, DACT*

### **Production Animal Track**

**sponsored by Lane Manufacturing, Inc.**

Pregnancy loss in cattle

*Andres de la Concha, DVM, PhD*

Pregnancy loss in small ruminants

*Andres de la Concha, DVM, PhD*

The use of laboratory in pregnancy loss

*Andres de la Concha, DVM, PhD*

A review of bovine trichomoniasis

*Jeff Ondrak, DVM, MS*

Diagnosis in bovine trichomoniasis

*Jeff Ondrak, DVM, MS*

Management and control of bovine trichomoniasis

*Jeff Ondrak, DVM, MS*

Pharmacokinetic of antibiotics on plasma and semen in beef bulls

*Juan Romano, DVM, MS, PhD*

## **Equine Track**

***sponsored by Rood & Riddle Equine Hospital  
and Sonosite, A Fujifilm Company***

Breeding the aged mare: Which management plans are best and what are the downfalls

*David Scofield, DVM, MS, DACT*

Management and considerations of the post-partum mare and foal

*Justin McNaughten, BVMS, DACT*

Prebreeding season/prepurchase examination of the stallion: U/S testes, semen evaluation and considerations

*sponsored by the Michelle LeBlanc Equine Memorial  
Lectures*

*Charles Love, DVM, PhD*

Extending cooled semen: How and what?

*David Scofield, DVM, MS, DACT*

Reinforced breeding: What and How?

*David Scofield, DVM, MS, DACT*

Use of progestins in the mare

*Carleigh Fedorka, PhD*

Reproductive surgeries: Why are they necessary and which ones are best for the specific problem

*Justin McNaughten, BVMS, DACT*

Acupuncture and Chinese herbal medicine in equine reproduction

*Kristina Lu, VMD, DACT*