THERIO 2023

ANNUAL CONFERENCE

July 19 - 22 | Sheraton Birmingham

Birmingham

SOCIETY FOR THERIOGENOLOGY | AMERICAN COLLEGE OF THERIOGENOLOGISTS | THERIOGENOLOGY FOUNDATION
Wishing the best of luck at the 2023 Society for Theriogenology Conference!

Stop by The AKC Veterinary Outreach booth to learn how we can continue strengthening the bridge between the American Kennel Club and the Veterinary Community.

We look forward to the ongoing collaboration with the Theriogenology Foundation and investing in healthier, future generations of dogs.

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♦ Apply for a residency program  ♦ Participate in research
  • ‘For Breeders’ and genetic resources
**OVERVIEW**

**7.19 WED @ Birmingham**

8:00 am - 5:00 pm
Bus from Birmingham Sheraton to Auburn departs 8:00 am
Equine Symposium and Lab

1:00 pm - 3:00 pm
Wet lab
Auburn University Anatomy Lab – Greene Hall
Bus from Auburn to Birmingham Sheraton departs 3:00 pm

3:30 pm - 4:30 pm
Talk in Transit
*Advance registration required. See registration desk for availability

**7.20 THUR**

8:00 am - 9:00 am
Theriogenologist of the Year Award
David E. Bartlett Award for Lifetime Achievement in Theriogenology
Sheraton Birmingham Ballroom 1, 5, 9

9:00 am - 11:00 am
Dr. Jerry Rains Memorial Abstract Competition
Sheraton Birmingham Ballroom 1, 5, 9

11:00 am - 12:00 pm
SFT Business Meeting
Sheraton Birmingham Ballroom 1, 5, 9

12:00 pm - 1:00 pm
Lunch on Your Own

1:00 pm - 2:30 pm
ACT Business Meeting
Sheraton Birmingham Ballroom 1, 5, 9

3:00 pm - 5:30 pm
Student Case and Research Presentations
Sheraton Birmingham Ballroom 1, 5, 9

5:30 pm - 6:15 pm
Student – Mentor Reception
Sheraton Birmingham Ballroom 11, 12

5:30 pm - 7:30 pm
Opening Reception in the Exhibit Hall
Sheraton Birmingham Ballroom 11, 12

6:30 pm
Student Trivia Night
Sheraton Birmingham Ballroom 11, 12

*Additional registration required. See registration desk for details.

Video and audio recording is strictly prohibited during any session.

**7.21 FRI**

7:00 am - 8:00 am
Continental Breakfast in the Exhibit Hall
Sheraton Birmingham Ballroom 3, 4, 7, 8

7:00 am - 8:00 am
So You Want To Be A Diplomate
BJCC Forum B

7:00 am - 7:50 am
Christian Veterinary Mission Gathering
Sheraton Jefferson I

8:00 am - 9:00 am
Plenary Speaker Dr. Jared E. Decker
Sponsored by the American College of Theriogenologists
Sheraton Birmingham Ballroom 1, 5, 9

9:00 am - 10:00 am
Plenary Speaker Dr. Kent A. Weigel
Sponsored by the American College of Theriogenologists
Sheraton Birmingham Ballroom 1, 5, 9

10:00 am - 10:30 am
Break in the Exhibit Hall
Sheraton Birmingham Ballroom 3, 4, 7, 8

10:30 am - 12:30 pm
Mixed Species Abstracts
Sheraton Birmingham Ballroom 1, 5, 9
Production Animal Abstracts
Sheraton Birmingham Ballroom 3, 4, 7, 8

12:30 pm - 1:30 pm
Lunch on your own

**7.22 SAT**

7:00 am - 8:00 am
Continental Breakfast in the Exhibit Hall
Sheraton Birmingham Ballroom 3, 4, 7, 8

8:00 am - 5:00 pm
Small Animal Track
Sheraton Birmingham Ballroom 1, 5, 9
Production Animal Track
Sheraton Birmingham Ballroom 1, 5, 9

10:00 am - 10:30 am
Morning Break
Sheraton Birmingham Ballroom 3, 4, 7, 8

12:30 pm - 1:30 pm
Lunch on your own

A huge thank you to the following individuals for their efforts in the planning of the 2023 Therio Conference.

**Program Chair**
Dr. William Whittler

**ACT Liaison**
Dr. Sherrie Clark

**TF Liaison**
Dr. Sara Lyle

**Equine Track and Equine Symposium Chair**
Dr. Candace Lyman

**Production Animal Track Program Chair**
Dr. Lee Jones

**Small Animal Track Program Chair**
Dr. Kristina Belton

**Therio Foundation Live Auction Chair**
Dr. Jim Floyd
OPENING SESSION ABSTRACTS  
Wednesday, July 19 | Westin Ballroom  
Moderator: Dr. Misty Edmondson

5:00 PM Soon Hon Cheong, DVM  
Cytoplasmic blebbing as an indicator of cryodamage in bovine embryos

5:13 PM Caio Figueiredo, DVM, MS, PhD  
Shifts in uterine microbiome associated with pregnancy outcomes at first insemination and clinical cure in dairy cows with metritis

5:26 PM Alaina Barhorst, LVT  
Increased piezo drilling intensity does not appear to adversely affect cleavage or blastocyst rates following equine intracytoplasmic sperm injection

5:39 PM Giorgia Podico, DVM MSc, DACT  
Horse (Equus caballus) and mule (Equus mulus) embryo morphometry

5:52 PM Giorgia Podico, DVM MSc, DACT  
Metabolome and proteome of the seminal plasma and semen of horses and donkeys

6:05 PM Ilaria Colombo, DVM  
Uterine edema and fluid accumulation associations with progesterone concentrations in early pregnant mares

6:18 PM Jessica Cowley, DVM  
Evaluation of aerobic culture results and the expression of embryonic transcripts from in vivo derived embryos exposed to media with and without antibiotics

6:31 PM Lily R. Lewis, DVM  
Hypoluteoidism in a pedigree of Portuguese Water Dogs

6:44 PM Riley Thompson, DVM, PhD  
Bovine oviductal organoids and their extracellular vesicles as a biomimetic model to develop a novel contraceptive

STUDENT CASE AND RESEARCH PRESENTATIONS  
Thursday, July 20 | Sheraton Birmingham Ballroom 1,5,9  
Moderator: Drs. James Alexander and David Christiansen

3:00 PM Ashley Beyer  
(Mississippi State University College of Veterinary Medicine)  
Ovarian teratoma in a Quarter Horse mare

3:15 PM Dane Wells Schwartz (Washington State University)  
Effect of age on serum anti-Müllerian hormone concentrations in female alpacas

3:30 PM Emma Mullins (University of Illinois)  
Monozygotic twin pregnancy in a Quarter Horse embryo recipient mare

3:45 PM Hayley Rossiano (University of Illinois)  
Low conception rates in a breeding Standardbred stallion due to spermastasis and seminal plasma toxicity complicated by low libido, and osteoarthritis.

4:00 PM Jewel Toenges (Washington State University)  
Severe hind limb lameness in a female dog with closed-cervix pyometra

4:15 PM Kassandra Crissman  
(Louisiana State University School of Veterinary Medicine)  
Molecular mechanisms underlying endometrial cup immunotolerance: expression of Fas/FasL and Tnfr2 genes

4:30 PM Keri Shipman  
(Auburn University College of Veterinary Medicine)  
Unilateral segmental aplasia of epididymis tail in a bull

4:45 PM Kristyn Burton  
(Oklahoma State University College of Veterinary Medicine)  
Seminal collection in the domestic cat: comparison of techniques

5:00 PM Thomas Burke (Auburn University)  
Outbreak of penile warts among a group of Angus and Charolais bulls

5:15 PM Cody Davis (Auburn University)  
Suspected penile spiral deviation secondary to penile denervation in a Shorthorn bull
MIXED SPECIES ABSTRACTS
Friday, July 21 | Sheraton Birmingham Ballroom 1,5,9
Moderator: Dr. Roberto Palomares

10:30 AM Alexandria Horner, BSc, DVM
Canine endometrial organoid generation and response to exogenous hormones

10:43 AM Andrea Hesser, DVM, DACT
Epididymal sperm acquisition, cryopreservation, and use of epididymal frozen semen in Armenian gampr dogs

10:56 AM Fabio Pinaffi, DVM, PhD
Pregnancy outcome with uterine serosal inclusion cyst in a dog

11:09 AM Jenna Dockweiler, DVM, DACT
Disorder of sexual development due to XX/XY chimerism in a Siberian husky female dog

11:22 AM Lily R. Lewis, DVM
Medical management of follicular cysts in a dog

11:35 AM Rachel Doenges, DVM
Effects of pituitary abscess and subsequent treatment on cyclicity in a Thoroughbred broodmare

11:48 AM Tal Raz, DVM, PhD, DACT
Differences in uterine bacterial community compositions and gene expression between normal and metritic Holstein-Frisian dairy cows at 5-12 days postpartum

12:01 PM Tiffany Hoffman, AS, BA
Spontaneous pneumothorax resolved via pneumocentesis in a neonatal Alaskan Malamute

PRODUCTION ANIMAL ABSTRACTS
Friday, July 21 | Birmingham Jefferson Convention Center Forum A
Moderator: Dr. Jamie Stewart

10:30 AM Tal Raz, DVM, PhD, DACT
Reducing the incidence of endometritis in dairy cows by hormonal regimen given to shorten the interval from calving to the first postpartum ovulation

10:45 AM Ahmed Tibary, DMV, MS, PhD, Dip. ACT
Induction of parturition in embryo recipient camels carrying calves produced by somatic cell nuclear transfer

11:00 AM Dinesh Dadaurwal, BVSc & AH, PhD, DACT
Are leukocytes in semen and poor semen quality indicators of Brucella infection in rams?

11:15 AM Jamie Stewart, DVM, PhD, DACT
Fetal ultrasonographic assessment to predict days prepartum in unsynchronized ewes

11:30 AM Jennifer Koziol, DVM, MS, DACT
Agreement between evaluators assessing bull sperm morphology by conventional methods versus video capture

11:45 AM Muhammad Salman Waqas, DVM, MS, PhD
Effect of season on gestation length and parturition interval in alpacas

12:00 PM Rachel Keckler Hanson, DVM
Delayed insemination with sexed semen relative to estrus improved pregnancy in beef heifers

12:15 PM Tiffany Hoffman, AS, BA
Spontaneous pneumothorax resolved via pneumocentesis in a neonatal Alaskan Malamute

EQUINE ABSTRACTS
Friday, July 21 | Birmingham Jefferson Convention Center Forum B
Moderator: Dr. Robyn Ellerbrock

Sponsored by

10:30 AM Rachel Doenges, DVM
Surgical excision of a leiomyoma in a subfertile Morgan mare

10:43 AM Dale Kelley, DVM, PhD, DACT
Determining the volume of blood in a stallion’s ejaculate

10:56 AM Erin Newkirk, DVM
Prepartum hemorrhage in a warmblood mare

11:09 AM Giorgia Podico, DVM MSc, DACT
Assessment of methods to activate epididymal sperm motility

11:22 AM Hilari French, DVM, PhD, DACT, DABVP
Two manual noncommercial methods to prepare platelet-rich plasma in donkeys (Equus asinus)

11:35 AM Humberto Magalhaes, DVM, MS
Colostrum quality associations with passive immunity transfer in foals

11:48 AM Lulu Guo, Ph.D. Candidate
Commensal virome of the equine uterus

12:01 PM Sabrina Cousseau, DVM, PhD Student
Antiluteogenic effects of prostaglandin F2α analogue cloprostenol in cycling males

CASE REPORTS
Friday, July 21 | Birmingham Jefferson Convention Center Forum C
Moderator: Dr. Misty Edmondson

10:30 AM Alex Wittorff, DVM
Conservative medical management of a grade III rectal tear in a mare

10:45 AM Anne Sheerin, BSA
Seminal vesiculitis in a Zangersheide stallion

11:00 AM Bruce Christensen, DVM, MS, DACT
Neonatal puppy death due to hyperthermia in a malfunctioning incubator

11:15 AM Devinda Wickramasingha, BVSc, MPhil
Semen parameters, gross and histopathological findings of Brucella outbreak in rams

11:30 AM Eduardo Arroyo, DVM
Testicular interstitial cell tumor in a cryptorchid horse

11:45 AM Gail McRae, DVM
Disorder of sexual development: 64 XX, SRY negative phenotypical mare with bilateral retained testes

12:00 PM Mariah Slack, DVM
Persistent endometrial cups in a Thoroughbred mare

12:15 PM Michela Ciccarelli, DVM, MS, PhD, DACT
Persistent Müllerian duct syndrome and enlarged prostatic utricle in a male dog

12:30 PM Nicole Sugai, DVM
Parturition induction in a late-term pregnant alpaca based on fetal maturity with unknown breeding timing

12:45 PM Patricia Xavier, DVM, MS
Successful embryo transfer after large colon displacement laparotomy
ABSTRACT POSTER PRESENTATIONS
Friday, July 21 | 12:30 pm - 1:30 pm
Sheraton Birmingham Ballroom 3,4,7,8

Progestosterone concentrations in mares after follicular puncture
Alex Wittorff, DVM

Immunohistological and molecular characterization of the Hippo pathway in granulosa cell tumors of the mare
Aurore Le Breton, DVM Intern

Clitoral adenocarcinoma in a mixed breed, spayed female dog
Christina Moss, DVM

Vaginal lipoma in a cow
Elizabeth Whitt, BS

Blastomycotic prostatitis
Marthina Greer, DVM, JD

Pregnancy in a Warmblood mare inseminated with frozen-thawed-extended semen on-farm
Justin McNaughten, BVMS, DACT

Influence of season and plasma prolactin concentrations on fertility of Bos taurus beef bulls
Rory Nevard, BVSc, MVStud, MANZCVS

Severe edema of the uteroplacental unit in a Quarter Horse mare
Stephanie Walborn, DVM, DACT

Fertility in a mare with pharyngeal lymphoma that was treated with doxorubicin
Stephanie Walborn, DVM, DACT

Diagnosis of canine herpesvirus preserves future neonatal viability
Tiffany Hoffman, AS, BA

STUDENT POSTER PRESENTATIONS
Friday, July 21 | 12:30 pm - 1:30 pm
Sheraton Birmingham Ballroom 3, 4, 7, 8

Ovarian hematoma in a Tennessee Walking Horse/Friesian cross foal
Andrew Kirk (Auburn University College of Veterinary Medicine)

Pyometra and dilated cardiomyopathy phenotype in a Great Dane female dog
Dane Wells Schwartz (Washington State University)

Chronic hydrometra in a goat
Daniella Adams (Louisiana State University School of Veterinary Medicine)

Gonads to no ‘nads: ovariohysterectomy after chronic pyometra in a mare
Ellianna Blair (Auburn University College of Veterinary Medicine)

Induction of abortion in a mare with hydroallantois
Kristyn Burton (Oklahoma State University College of Veterinary Medicine)

Unilateral testicular enlargement in a Quarter Horse stallion
Lexie Oncale (Oklahoma State University)

Leiomyosarcoma associated with uterine rupture in an American Quarter Horse
Matthew Michael Rafferty (Washington State University)

A case report of feed and water contamination causing poor breeding season pregnancy rate in beef heifers
Matthew Michael Rafferty (Washington State University)

One placenta’s-itis: stable for two?
Sierra Ott (Auburn University College of Veterinary Medicine)

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“Dietary supplementation is the most feasible method to improve oocyte function and developmental potential in vivo.”
Catandi GD, LiPuma L, Obeidat YM, et al. (2022)

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EQUINE SEMINAR AND LAB*

Wednesday, July 19
Auburn University - Newsom Auditorium
Greene Hall Anatomy Lab

7:00 am - 7:45 am  Check in at Sheraton Birmingham Lobby
8:00 am            Bus departs Sheraton Birmingham Lobby
10:00 am-12:00 pm  State-of-the-art Review of Diseases of the Placenta, Fetus, & Foal for the Prevention of Fetal and Perinatal Losses
                   Fabio Del Piero, DVM, PhD, Dipl. ACVP
12:00 pm-12:45 pm  Lunch
1:00 pm-3:00 pm    Foal Necropsy Lab and Viewing
                   Fabio Del Piero, DVM, PhD, Dipl. ACVP
                   The lab session will provide a demonstration of equine fetus – newborn foal necropsy techniques, lesion observation and sample collection with Q&A related to laboratory diagnoses and abortigenic and neonatal diseases. Guided hands-on opportunities will be offered to attendees.
3:00 pm            Bus departs Auburn
                   Talk in Transit: Managing Equine Abortion Outbreaks Q&A
                   Karen Wolfsdorf, DVM, DACT

* Advance registration required. Please check in with the registration desk for availability.

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**CONFERENCE SCHEDULE**

**Wednesday, July 19**

- **4:00 pm-6:00 pm** Registration open
- **8:00 am-5:00 pm** Equine Symposium and Lab* | Auburn University
- **1:00 pm - 2:30 pm** ACT Board Meeting | Sheraton Jefferson II
- **3:00 pm - 4:00 pm** TF Board Meeting | Sheraton Jefferson II
- **7:00 pm - 8:30 pm** SFT Board Meeting | Sheraton Jefferson II
- *Limited capacity/advance registration required. See registration desk for availability.

Video and audio recording is strictly prohibited during any session.

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**CONFERENCE SCHEDULE**

**Thursday, July 20**

- **7:00 am-4:30 pm** Registration Open
- **8:00 am-9:00 am** Theriogenologist of the Year Award | Cheryl Lopate, MS, DVM, DACT
  David E. Bartlett Award for Lifetime Achievement in Theriogenology | Stuart Meyers, MS, DVM, PhD, DACT
  Sheraton Birmingham Ballroom 1, 5, 9
- **11:00 am-12:00 pm** SFT Business Meeting | Sheraton Birmingham Ballroom 1, 5, 9
- **12:00 pm-1:00 pm** Lunch on your own
- **1:00 pm-2:30 pm** ACT Business Meeting | Sheraton Birmingham Ballroom 1, 5, 9
- **5:30 pm-6:15 pm** Student Mentor Reception | Sheraton Birmingham Ballroom 11, 12
  Sponsored by ROYAL CANIN®
- **5:30 pm-7:30 pm** Opening Reception in Exhibit Hall | Sheraton Birmingham Ballroom 3, 4, 7, 8
  Sponsored by LANEmfg
- **5:30 pm** Silent Auction Opens | Sheraton Birmingham Ballroom 3, 4, 7, 8
- **6:30 pm** Student Trivia Night | Sheraton Birmingham Ballroom 11, 12
  Sponsored by MERCK Animal Health

Video and audio recording is strictly prohibited during any session.
## Conference Schedule
### Friday, July 21

### 7:00 am-4:30 pm
- Registration Open
- Exhibitor Hall Open
- Continental breakfast in Exhibit Hall | Sheraton Birmingham Ballroom 3, 4, 7, 8
- Christian Veterinary Mission Gathering | Sheraton Jefferson I
- So You Want to Be A Diplomate | BJCC Forum B

### 8:00 am-9:00 am
- Plenary session - Quantitative genetics and population genomics to improve beef sustainability
  Jared E. Decker, MS, PhD | Sheraton Birmingham Ballroom 1, 5, 9 | Sponsored by ACT
- Plenary session - Genomics in dairy cattle selection: past, present, and future
  Kent A. Weigel, PhD | Sheraton Birmingham Ballroom 1, 5, 9

### 9:00 am-10:00 am
- Case Examples – Management of Three Problem Mares
  Karen Wolfsdorf, DVM, DACT

### 10:00 am - 1:00 pm
- Abstract Poster Presentations | Student Case & Research Poster Presentations | Sheraton Birmingham Ballroom 3, 4, 7, 8
- Lunch in the Exhibit Hall | Sheraton Birmingham Ballroom 3, 4, 7, 8 | Sponsored by Merck Animal Health

### 10:30 am - 12:30 pm
- Small Animal Track
  Sheraton Birmingham Ballroom 1, 5, 9
  Moderator: Dr. Kristina Belton
  The weird things we only know a little about: obesity and microbiome in dogs
  Jenny L. Sones, DVM, PhD, DACT
  Timing of elective C-Sections in dogs
  Jenny L. Sones, DVM, PhD, DACT

### 4:00 pm - 5:00 pm
- Common complications of pregnancy and postpartum
  Jenny L. Sones, DVM, PhD, DACT

### 10:00 am - 1:00 pm
- Production Animal Track
  BJCC Forum A
  Moderator: Dr. Jamie Stewart
  Updates on pregnancy loss in beef cattle
  Ky Pohler, MS, PhD
  Updates on pregnancy loss in beef cattle
  Ky Pohler, MS, PhD

### 10:00 am - 1:00 pm
- Mixed Species Abstracts
  Sheraton Birmingham Ballroom 1,5,9
  Moderator: Dr. Roberto Palomares
  For abstract presentation details, please see page 5 in this program.

### 10:30 am - 12:30 pm
- Production Animal Abstracts
  BJCC Forum A
  Moderator: Dr. Lee Jones

### 12:30 pm - 1:30 pm
- Case Reports
  BJCC Forum C
  Moderator: Dr. Misty Edmondson

### 3:30 pm - 4:00 pm
- 30 Minute Break | Visit the Exhibit Hall | Sheraton Birmingham Ballroom 3, 4, 7, 8
- Refreshments available in Sheraton Birmingham Ballroom 3, 4, 7, 8 and BJCC Forum C Foyer

### 4:00 pm - 5:00 pm
- Balancing immunity and fertility in beef herds
  Lee Jones, MS, DVM

### 3:30 pm - 4:00 pm
- Equine Abstracts
  BJCC Forum B
  Moderator: Dr. Robyn Ellerbrock

### 7:00 pm - 10:00 pm
- Awards Dinner* and Story Night | Sheraton Birmingham Ballroom 11, 12 | Sponsored by
  *Ticket required for Awards Dinner, but not for Live Auction.

### Awards Dinner Reception | Sheraton Birmingham Pre-function

*Video and audio recording is strictly prohibited during any session.*
### Conference Schedule

**SATURDAY, July 22**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am-4:30 pm</td>
<td>Registration open</td>
</tr>
<tr>
<td>7:00 am-10:30 am</td>
<td>Exhibit Hall open</td>
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<tr>
<td>7:00 am-8:00 am</td>
<td>Continental Breakfast in the Exhibit Hall</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Silent Auction ends. Pick up your item and yellow sheet and bring to the registration counter to pay</td>
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#### Small Animal Track

**Sheraton Birmingham Ballroom 1, 5, 9**

**Moderator:** Dr. Kristina Belton

**Sponsored by Royal Canin**

- **8:00 am - 9:00 am**
  - Hypothyroidism, Thyroid supplementation, and Reproduction - The Facts to Share with Clients
    - Julie Cecere, DVM, MS, DACT

- **9:00 am - 10:00 am**
  - New lessons in semen handling and centrifugation
    - Julie Cecere, DVM, MS, DACT

#### Production Animal Track

**BJCC Forum A**

**Moderator:** Dr. Lee Jones

- Using the electro-ejaculator: the most effective, humane method
  - Robert Green, Lane Manufacturing

- Using your microscope most effectively
  - Mike Thomas, LW Scientific

#### Equine Track

**BJCC Forum B**

**Moderator:** Dr. Candace Lyman

- Standing stallions as a solo practitioner
  - Peter Sheerin, DVM, DACT

- Practical tips for managing client mares prior to scheduled oocyte aspiration
  - Carlos Pinto, DVM, PhD, DACT

### Lunch on Your Own

**10:30 am - 10:45 am**

**12:30 pm - 1:30 pm**

**2:30 pm - 2:45 pm**

**3:45 pm - 5:00 pm**

**Practice Tips**

- Bruce Eilts, DVM, MS DACT
- Stuart Mason, BVSc (Hons) MANZCVS
- William Whitler, DVM, DACT, DABVP

**Practice Tips**

- Angelika Stock, DVM, DES, PhD, DACT
- Jamie Stewart, DVM, PhD, MS, DACT
- John Kastelic, DVM, PhD, Dip, ACT

**Practice Tips**

- Peter Sheerin, DVM, DACT
- Reed Holyoak, DVM, PhD, DACT
- Maria Ferrer, DVM, MS, DACT

### Conference Schedule

**7:00 am - 8:00 am**

**Continental Breakfast in the Exhibit Hall | Sheraton Birmingham Ballroom 3, 4, 7, 8 | Sponsored by...**

**10:30 am**

**Silent Auction ends. Pick up your item and yellow sheet and bring to the registration counter to pay**
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Please inquire at the registration desk for information about our Multi-Faith/Meditation and Lactation Rooms. Available to Therio conference attendees Wed, July 19th - Saturday, July 22nd.

**VISIT OUR EXHIBITORS**

**THEY CAME TO SEE YOU ...**

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THERIOGENOLOGY FOUNDATION

The Future of Animal Reproduction
**2023 Therio Conference Plenary Speaker**

**Dr. Jared E. Decker**

Jared E. Decker is Wurdack Chair in Animal Genomics and associate professor in the University of Missouri Division of Animal Science, Genetics Area Program, and Institute for Data Science and Informatics. Decker received his B.S. from New Mexico State University, where he majored in Animal Science with a minor in Biology. He earned his Ph.D. at the University of Missouri in Genetics, with a Ph.D. minor in Statistics. Jared grew up on a small farm in northwest New Mexico where his family raised registered cattle. He now owns a farm in Mid-Missouri to teach his kids the value of hard work and pass on the legacy of agriculture. His research focuses on understanding the history of cattle breeds, improving the accuracy and breadth of genomic tests, and creating genomic tools to match cattle to their environment and management. He is active on social media and his website A Steak in Genomics.

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**2023 Therio Conference Plenary Speaker**

**Dr. Kent A. Weigel**

Dr. Kent A. Weigel, PhD, is Professor and Chair of the Department of Animal and Dairy Sciences at UW-Madison, where he previously earned the degree of Ph.D. in animal breeding and genetics. Over the past thirty years, Dr. Weigel and his research group have carried out translational research that has generated more than 200 peer-reviewed articles in leading scientific journals and improved the lives of farmers and their cattle around the world. These studies have featured topics such as methods for improving resistance to common health disorders in dairy cattle, building genomic reference populations for feed utilization efficiency and enteric methane production, genotype imputation methods for designing low-density genomic tests, strategies for controlling inbreeding at the genome level, using machine learning algorithms to facilitate dairy management decisions, and developing selection programs for improved resilience to environmental challenges.

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**Please join Christian Veterinary Mission at the 2023 Therio Conference!**

**Friday, July 21st**

**CVM FELLOWSHIP BREAKFAST**

7:00AM — 7:50 AM
Location: Jefferson 1 in the Sheraton

Grab some breakfast from Birmingham Ballroom and join CVM friends in Jefferson 1 for a special time of fellowship and to hear from CVM’s Workplace and Student Ministries Director, Dr. Lauren Charles, about CVM work around the world with a devotional on our new annual theme of “The Light” from John 1:5.

A special thanks to Nutramax for being a strong support and sponsor of CVM
NANDI THERIOGENOLOGY SCHOLARS
CLASS OF 2023

The Theriogenology Foundation is pleased to announce the selection of four senior veterinary students as their 2023 Nandi Theriogenology Scholars. This third class of Nandi Scholars was selected from a pool of 17 applicants representing 12 different veterinary schools. They will be recognized and receive their awards of $10,000 each at the Annual Conference in Birmingham, Alabama on Friday, July 21. Thank you to the 26 dedicated reviewers who selected these four outstanding students, and to all who have donated to the Foundation to make these awards possible.

In the alphabetical order of their schools, the 2023 Nandi Scholars:

**Leah Ramsaran – Cornell University**
Leah will pursue a residency in Theriogenology and use this training toward the advancement of conservation efforts for endangered species.

**Sabrina Van Schyndel – University of Guelph**
Sabrina is joining a large, multi-practitioner bovine practice in Southern Ontario specializing in dairy reproductive management, preventive medicine, and surgery.

**Matthew Barnes – Washington State University**
After graduation Matt will return to northeastern Nevada where he grew up as a 7th generation rancher to join a mixed animal practice. His goal is to increase both large and small animal reproductive services for his practice and become an ACT Diplomate by the alternate route.

**Dane Schwartz – Washington State University**
Dane is applying for a year-long academic internship in Food Animal Production Medicine and then will seek a residency in Theriogenology. He is interested in private practice or academic career emphasizing comparative Theriogenology & ART.
<table>
<thead>
<tr>
<th><strong>GUIDE TO 2023 EXHIBITORS</strong></th>
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**The American Kennel Club, Inc.**
The AKC Veterinary Outreach Program serves as a bridge between the American Kennel Club and the veterinary community. Our goal is to provide the most up-to-date information on purebred dogs & to be the go-to resource for all aspects of dog training, clubs and activities for people and all dogs.

**Axiota Animal Health**
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**KARL STORZ Veterinary Endoscopy America, Inc.**
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MAI Animal Health™ is THE SOURCE for solutions in animal healthcare. With extensive experience and expertise across multiple veterinary disciplines and species, we manufacture and supply a vast array of innovative, practical products in categories including Reproduction, Containers, Dental, Specialty, and Instruments. Veterinarian owned and trusted globally for over 40 years.

**Merck Animal Health**
Merck Animal Health is a research-driven pharmaceutical company that develops, manufactures and markets a broad range of veterinary medicines, vaccines and services, as well as an extensive suite of digitally connected identification, traceability and monitoring products.

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**Platinum Performance**
Platinum Performance® was created over 25 years ago out of clinical necessity by renowned veterinarian and innovator Dr. Doug Herthel. With a steadfast focus on exceptional quality and a culture centered on research, Platinum Performance® has championed optimal equine health, performance, recovery and advanced support for reproduction and fertility through innovative cellular nutrition. Platinum proudly stands side-by-side with veterinarians to further the reach of nutrition as a critical tool and complementary therapy in practice, impacting the lives of horses around the world through the veterinarians who serve them. As we grow in both size and global reach, our work remains driven by Dr. Herthel’s legacy and a deep belief that advanced nutrition is a vital part of practicing good medicine.

* (continued on following page)
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Dr. Cheryl Lopate

Dr. Lopate obtained a BS in Animal Science from Colorado State University in 1984, followed by a MS in Reproductive Physiology in 1987 and a DVM in 1991, both from The Ohio State University. She practiced in rural Minnesota for 4 years at a mixed animal general practice (cattle, horses and companion animals), then returned to Purdue University in 1995 for residency training in comparative theriogenology. She obtained board certification as a Diplomate of the American College of Theriogenologists in 1997. She remained as a clinical instructor at Purdue for 2.5 more years, during which time she spent 6 months on sabbatical in Queensland, Australia working at an equine and small animal referral practice. She then returned to be the breeding farm manager of a very large Standardbred stud in Ontario, Canada for 2 years. After that she worked in 2 practices (one in upstate NY and one in western WA) providing predominantly equine and companion animal reproductive services before opening her own reproductive referral practice for horses and companion animals in the Portland, OR area in 2003. In 2011, she merged her small animal reproductive practice with a general companion animal practice, while still practicing exclusively reproductive medicine on companion animals and horses. Her main practice interests lie in ultrasonography, particularly during pregnancy, high risk pregnancy management and male infertility. She has a small hobby farm with a Pembroke Welsh Corgi, an Australian Shepherd, a Cleveland Bay gelding, two miniature donkeys, a small flock of sheep (for the dogs to herd) and two barn cats.

Dr. Stuart Meyers

Dr. Meyers is a professor in the School of Veterinary Medicine at the University of California, Davis and teaches Theriogenology and Anatomy, Physiology, and Embryology in the DVM professional and Graduate programs. He obtained his BS and DVM degrees from Michigan State University where he grew up. He obtained his MS degree in Reproductive Physiology at Oregon State University and his PhD in Comparative Pathology at UC Davis. Stuart did his residency in large animal Theriogenology at Texas A&M University and was board-certified in the ACT in 1990. Stuart was in mixed large animal and Dairy Herd Health practice after vet school graduation and was resident veterinarian on a Standardbred breeding farm in Illinois after residency training. Dr. Meyers directs a research program in gamete biology focusing on the sperm, eggs, and embryos of horses, dogs, non-human primates, and fish. He has more than 160 peer-reviewed scientific publications. He continues to conduct research at UCD and co-directs the Veterinary Gamete Biology Laboratory and ICSI program. Dr. Meyers has trained 10 PhD and 7 MS students and has been awarded both the School of Veterinary Medicine and UC Davis Distinguished Teaching Awards. Stuart is married to Becky Meyers, also a veterinarian, and they have two sons, Alex and Matthew, along with two dogs and two cats.

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