

*American College of Veterinary Pathologists™  
American Society for Veterinary Clinical Pathology*

**Final Program**



**ACVP & ASVCP Concurrent Annual Meeting**

**November 4-8, 2017**

**Vancouver Convention Centre  
Vancouver, British Columbia, Canada**



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## Registration

Registration will be located in the West Ballroom A Foyer.

Registration Hours:

Friday, November 3 . . . . . 6:00 p.m.-8:00 p.m.  
 Saturday, November 4 . . . . . 7:00 a.m.-7:30 p.m.  
 Sunday, November 5 . . . . . 7:00 a.m.-5:00 p.m.  
 Monday, November 6 . . . . . 7:30 a.m.-1:30 p.m.  
 Tuesday, November 7 . . . . . 7:30 a.m.-5:00 p.m.  
 Wednesday, November 8 . . . . . 8:00 a.m.-1:00 p.m.

## Wireless Internet Access

Wireless Internet service will be available free of charge in your hotel room if you are staying at one of the three hotels in our room block. Complimentary basic wireless Internet service is available at the Vancouver Convention Centre.

Access to the wireless Internet in the meeting rooms:

Network: **ACVP2017**  
 Passcode: **Vancouver**

However, the strength of the bandwidth cannot be guaranteed.

If you are traveling from another country, please check your cell phone plan for international rates.

## Mobile App

Download the free 2017 ACVP and ASVCP Combined Annual Meeting mobile app through the iTunes store or Google Play. Access the personal scheduler, abstracts, program, proceedings, and more information about the Annual Meeting!

Be sure to share your photos through the social media section of the mobile app. We like to see what attendees are up to during the meeting!

## Proceedings

You can access the Proceedings through the mobile app and online during the meeting. A link to the Proceedings is available below:

<http://acvpandasvcp.conferencespot.org>

Username: **acvp**  
 Password: **2017**



## ACVP RACE Credits

This program 35-30749 is approved by the AAVSB RACE to offer a total of 123.50 CE Credits (39.00 max) being available to one veterinarian: and/or 123.50 Veterinary Technician CE Credits (39.00 max). This RACE approval is for the subject matter categories of:

- Category One: Scientific
- Category Two: Non-Scientific-Clinical
- Category Three: Non-Scientific-Practice Management/ Professional Development using the delivery method of Seminar/Lecture.

This approval is valid in jurisdictions which recognize AAVSB RACE; however, participants are responsible for ascertaining each board's CE requirements. RACE does not "accredit" or "endorse" or "certify" any program or person, nor does RACE approval validate the content of the program."

ACVP is now an approved sponsor of continuing education in New York State. Those ACVP members in New York who need RACE credits will now be able to receive them at the upcoming Annual Meeting.

A RACE credit verification will be sent by email to each individual registering for those credits after the 2017 Annual Meeting.

## Speaker Ready Room

West Meeting Room 105

Speakers (oral presenters) are required to download their presentations in the Speaker Ready Room prior to their sessions.

Speaker Ready Room Hours:

Saturday, November 4 . . . . . 12:00 noon-7:00 p.m.  
 Sunday, November 5 . . . . . 7:00 a.m.-6:00 p.m.  
 Monday, November 6 . . . . . 7:00 a.m.-6:00 p.m.  
 Tuesday, November 7 . . . . . 7:00 a.m.-6:00 p.m.  
 Wednesday, November 8 . . . . . 7:00 a.m.-11:30 a.m.

On the next page are scheduled check-in times for speakers. Please review and make note of these times. You can always download your slides earlier than the dates and times in the chart below. Leave plenty of time to visit the Speaker Ready Room before your presentation.

**If Your Presentation Date/Time is...**

Sunday, November 5, 2017  
Between 8:00 a.m.-12:00 noon

Sunday, November 5, 2017  
Between 1:30 p.m.-5:00 p.m.

Monday, November 6, 2017  
Between 8:00 a.m.-12:00 noon

Tuesday, November 7, 2017  
Between 8:00 a.m.-12:00 noon

Tuesday, November 7, 2017  
Between 1:30 p.m.-5:00 p.m.

Wednesday, November 8, 2017  
Between 8:00 a.m.-12:00 noon

Wednesday, November 8, 2017  
Between 1:00 p.m.-5:00 p.m.

**Then Your Scheduled Check-In Time is...**

Report prior to 6:00 p.m. on Saturday, November 4, 2017

Report prior to 11:00 a.m. on Sunday, November 5, 2017

Report prior to 5:00 p.m. on Sunday, November 5, 2017

Report prior to 5:00 p.m. on Monday, November 6, 2017

Report prior to 11:00 a.m. on Tuesday, November 7, 2017

Report prior to 5:00 p.m. on Tuesday, November 7, 2017

Report prior to 10:00 a.m. on Wednesday, November 8, 2017

All pre-meeting workshop presenters are to report to their meeting room thirty (30) minutes in advance of the beginning of the session. They do not need to check in at the Speaker Ready Room. All other speakers need to report to the Speaker Ready Room (does not apply to poster presenters).

Diagnostic Pathology Posters:

Refreshment Breaks on Sunday afternoon

Experimental Disease Posters:

Refreshment Breaks on Tuesday afternoon

Industrial and Toxicologic Pathology Posters:

Refreshment Break on Sunday morning

Natural Disease Posters:

Refreshment Breaks on Sunday morning

**ACVP Late-Breaking Poster Session**

Poster Setup:

Sunday, November 5, 2017. . . . . 7:00 AM – 9:00 AM

Poster Viewing:

Sunday, November 5, 2017. . . . . 9:30 AM – 4:30 PM

Monday, November 6, 2017 . . . . . 9:30 AM – 1:00 PM

Tuesday, November 7, 2017 . . . . . 9:30 AM – 3:30 PM

Poster Teardown:

Tuesday, November 7, 2017 . . . . . 3:30 PM – 4:00 PM

**Poster Session Schedule**

**Veterinary Student Poster Session**

Saturday, November 4, 2017

Poster Setup . . . . . 5:30 PM – 6:30 PM

Awards Judging . . . . . 6:30 PM – 7:30 PM (*no authors present*)

Authors Present . . . . . 7:30 PM – 9:00 PM

Teardown . . . . . 9:00 PM – 10:00 PM

**Focused Scientific Poster Session**

Poster Setup:

Sunday, November 5, 2017. . . . . 7:00 AM – 9:00 AM

Poster Viewing:

Sunday, November 5, 2017. . . . . 9:30 AM – 4:30 PM

Monday, November 6, 2017 . . . . . 9:30 AM – 1:00 PM

Tuesday, November 7, 2017 . . . . . 9:30 AM – 3:30 PM

Poster Teardown:

Tuesday, November 7, 2017 . . . . . 3:30 PM – 4:00 PM

Authors present at their posters at the following times:

Clinical Pathology Posters:

Refreshment Breaks on Tuesday morning

**Future Annual Meetings**

**November 3-7, 2018** - Marriott Wardman Park Hotel, Washington, DC

**November 9-13, 2019** - San Antonio Rivercenter Hotel, San Antonio, TX



## FINAL PROGRAM

### Friday, November 3, 2017

3:00 PM – 6:00 PM

West Room 306

**ACVP Council**

5:00 PM – 7:00 PM

Burrard Suite (Fairmont Hotel)

**ASVCP Executive Board**

6:00 PM – 8:00 PM

West Ballroom A Foyer

**Registration and Information Desk**

### Saturday, November 4, 2017

7:00 AM – 7:30 PM

West Ballroom A Foyer

**Registration and Information Desk**

8:00 AM – 4:00 PM

West Room 224

**ASVCP Executive Board**

8:00 AM – 5:00 PM

West Room 205 (available at an additional fee)

**ACVP Pre-Meeting Workshop: Approaches to Quantitative and Semi-Quantitative Scoring in Translational Pathology**

Session Chairs:

*Kelli Boyd, DVM, PhD, DACVP*

*Vanderbilt University Medical Center*

*Piper Treuting, DVM, PhD, DACVP*

*University of Washington*

8:00 AM – 8:15 AM

**Introduction and Approaches**

*Kelli Boyd, DVM, PhD, DACVP*

*Piper M. Treuting, DVM, PhD, DACVP*

8:15 AM – 8:30 AM

**The Blind Pathologist**

*Kelli Boyd, DVM, PhD, DACVP*

8:30 AM – 9:00 AM

**Tissue Scoring: Statistical Approaches and Data Reporting**

*David K. Meyerholz, DVM, PhD, DACVP*

*University of Iowa Carver College of Medicine*

9:00 AM – 9:20 AM

**Histopathology Grading in Toxicologic Pathology: STP's View**

*Kenneth A. Schafer, DVM, PhD, DACVP, FIATP*

*Vet Path Services, Inc.*

9:20 AM – 9:40 AM

**Comparative Pathologists: Ultimate Control Freaks Seeking Validation!**

*Krista LaPerle, DVM, PhD, DACVP*

*The Ohio State University*

9:40 AM – 10:00 AM

**Approaches to Scoring Immunohistochemistry**

*Elizabeth Howerth, DVM, PhD, DACVP*

*University of Georgia*

10:05 AM-10:30 AM

**Refreshment Break**

10:30 AM – 11:00 AM

**Tissue-based Imaging and Quantitation: New Technologies Don't Eliminate the Need for Crafting Careful Scientific Questions**

*Lauri Diehl, DVM, PhD, DACVP*

*Genentech*

11:00 AM – 11:20 AM

**Adding Analytical Dimension with Immunofluorescence**

*Andries Zijlstra, PhD*

*Vanderbilt University Medical Center*

11:20 AM – 11:40 AM

**Approaches to Stereology**

*Danielle L. Brown, DVM, DABT*

*Charles River*

11:40 AM – 12:00 PM

**What the Heck? Assessing Medical Devices Overview**

*Marian K. Rippy, MS, DVM, PhD, DACVP*

*Rippy Pathology Solutions, Inc.*

12:00 PM - 1:00 PM

**Lunch Break (on your own)**

1:00 PM – 1:20 PM

**Just Keep Breathing: Approaches to Scoring Inflammatory Lesions in the Context of the Lung Pathology**

*Laura Janke, DVM, PhD, DACVP*

*St. Jude Children's Research Hospital*

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*

1:20 PM – 1:40 PM

**Approaches to Scoring Infectious Processes***Peter Vogel, DVM, PhD, DACVP**St. Jude Children's Research Hospital*

1:40 PM – 2:10 PM

**Approach to Grading Lesions of Osteoarthritis***Cathy S. Carlson, DVM, PhD, DACVP**University of Minnesota*

2:10 PM – 2:30 PM

**Scoring Degenerative and Age Related Pathology***Jessica Snyder, MS, DVM, DACVP**University of Washington*

2:30 PM – 2:50 PM

**Approaches to Scoring Hematopoietic/Lymphoid Responses***Jerrold M. Ward, DVM, PhD, DACVP**Global VetPathology*

2:50 PM – 3:20 PM

**Refreshment Break**

3:20 PM – 3:40 PM

**Finding Order in the Chaos: Scoring the Continuum of Cancer***Sue E. Knoblaugh, DVM, DACVP**The Ohio State University*

3:40 PM – 4:00 PM

**Pain in the Kras***Kelli Boyd, DVM, PhD, DACVP*

4:00 PM – 4:20 PM

**Clone Wars: The Cognitive Conundrum of Xenograft Scoring***Lauren Himmel, DVM, PhD, DACVP**Vanderbilt University Medical Center*

4:20 PM – 5:00 PM

**Roundtable Discussion***All Speakers*

8:00 AM – 5:00 PM

West Room 110 (available at an additional fee)

**ASVCP Pre-Meeting Workshop: External Quality Assurance and Proficiency Testing***Session Chairs:**Melinda S. Camus, DVM, DACVP**University of Georgia**Jennifer R. Cook, DVM, MS, DACVP**Antech Diagnostics**Linda Vap, DVM, DACVP**Colorado State University*

8:00 AM – 8:05 AM

**Welcome***Melinda S. Camus, DVM, DACVP**Jennifer R. Cook, DVM, MS, DACVP**Linda Vap, DVM, DACVP*

8:05 AM – 8:35 AM

**What is EQA? ASVCP EQA Guideline Overview***Melinda S. Camus, DVM, DACVP*

8:35 AM – 9:30 AM

**The VLA Quality Assurance Program: How a Standardized Program Ensures Consistency in YOUR Laboratory***Jenni Jenkins-Perez, LVT, CVT, AA, BAS(VT)**Affiliated Veterinary Specialists and Veterinary Laboratory Association*

9:30 AM - 9:45 AM

**Refreshment Break**

9:45 AM – 10:40 AM

**The Human Perspective: CAP's EQA Program in a Regulated Environment***John D. Olson, MD, PhD*

10:40 AM – 11:35 AM

**Quality Control and Quality Assurance Practices in a Regulated Clinical Pathology Laboratory***Kirstin Barnhart, DVM, PhD, DACVP**AbbVie, Inc.*

11:35 AM – 1:00 PM

**Panel Discussion and Working Lunch (boxed lunches are included)***Kirstin Barnhart, DVM, PhD, DACVP**Melinda S. Camus, DVM, DACVP**Gregory Freeman, MBA**Balázs Szladovits, DVM, DACVP**Royal Veterinary College, London**Linda Vap, DVM, DACVP**Colorado State University*

1:00 PM – 1:55 PM

**Quality Assurance of Point of Care Testing***Kendal Harr, MS, DVM, DACVP**Urika, LLC*

2:15 PM – 4:30 PM

**Data Exercises/Hands-on Interpretation of EQA****Data****Hematology Exercise***Jenni Jenkins-Perez, LVT, CVT, AA, BAS(VT)***Electrolyte Exercise***Kendal Harr, MS, DVM, DACVP***Biochemistry Exercise**

4:30 PM-5:00 PM

**Wrap-Up**

8:00 a.m.-5:00 p.m.

West Room 119 (available at an additional fee)

**C.L. Davis-Thompson Foundation Pre-Meeting Workshop****Veterinary Hepatic Pathology: What's New and What's Still True in the 21<sup>st</sup> Century***John M. Cullen, VMD, PhD, DACVP**North Carolina State University College of Veterinary Medicine*

10:30 AM – 5:00 PM

West Room 306

**ACVP Council Meeting**

12:00 PM – 7:00 PM

West Room 105

**Speaker Ready Room**

12:00 PM – 1:30 PM

West Room 201

**ACVP Council and ASVCP Executive Board Meeting**

12:00 PM – 2:00 PM

West Room 114

**Veterinary Pathology Editors Meeting**

1:00 PM – 8:00 PM

West Ballroom A Foyer

**Internet Station***Sponsored by VIN*

3:00 PM – 8:00 PM

West Room 106

**Career Center**

ACVP is hosting the Career Center, offering an uncommon opportunity for recruiters, employers, veterinary pathologists, trainees, and students to meet each other, drop off or receive CVs, arrange on-site interviews, or just explore opportunities in veterinary pathology.

4:00 PM – 6:00 PM

West Room 107

**ASVCP Executive Board and Committees**

4:00 PM – 7:00 PM

West Room 117

**ACVP Education Committee Meeting**

5:00 PM – 8:00 PM

West Room 114

**ACVP Strategic Planning Committee**

5:15 PM – 6:15 PM

West Room 202

**Landing Your Dream Job: A Look Inside the Interview Process***Jeremy Johnson, DVM, PhD, DACVP**IDEXX**Sponsored by IDEXX*

6:00 PM – 8:00 PM

West Ballroom A Foyer

**Professional Photo Activity***Sponsored by IDEXX*

Join IDEXX and have your professional photo taken on a complimentary basis!

6:15 PM – 7:15 PM

West Room 109

**Student and Resident Reception***Sponsored by Antech*

All students and residents are invited to attend!

7:00 PM – 9:00 PM

West Room 115

**ACVP Exam Committee (Anatomic)**

7:30 PM – 9:00 PM

West Ballroom C

**Opening Reception and Veterinary Student Poster Session****Exhibits and Silent Auction**

Participate in selecting the People's Choice Veterinary Student Poster Award! Pick up a bingo card on the way into the poster session. Visit four veterinary student posters, receive a sticker from each one, and cash it in for a free beverage (wine, beer, soda, water)! Indicate your selection for the People's Choice Award on your bingo card before turning it in to the bar. The award will be announced the next day at the Veterinary Student Breakfast!

**Sunday, November 5, 2017**

7:00 AM – 5:00 PM

West Ballroom A Foyer

**Registration and Information Desk**

7:00 AM – 6:00 PM

West Room 105

**Speaker Ready Room**

7:00 AM – 8:00 AM

West Room 115

**ASVCP Regulatory Affairs Committee***(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*



7:00 AM – 9:00 AM

West Room 117

**Academic Leadership Special Interest Group** (formerly the Pathology Chairs)

7:00 AM – 8:00 AM

West Room 109

**ACVP Veterinary Student Breakfast**

All veterinary students are welcome to attend!

7:00 AM – 7:30 PM

West Ballroom A Foyer

**Internet Station**

*Sponsored by VIN*

8:00 AM – 9:30 AM

West Room 114

**Veterinary Pathology Editorial Board Meeting**

8:00 AM – 12:00 PM

West Room 221

**ASVCP Education Symposium: Lymphoproliferative Disease in Veterinary Medicine: A Who's WHO of Diagnostic Advances, Comparative Aspects and Drug Development**

*Session Chair:*

*Laura Snyder, DVM, DACVP*

*Wisconsin Veterinary Referral Hospital, Marshfield Laboratories*

8:00 AM – 8:50 AM

**Cytology of (WHO) Lymphoma**

*Bill Vernau, BSc, BVMS, DVSc, PhD, DACVP*

*University of California, Davis*

8:50 AM – 9:40 AM

**Diagnosis of Human Hematolymphoid Malignancies in 2017: A Multi-modality Approach**

*Nathan D. Montgomery, MD, PhD*

*University of North Carolina School of Medicine*

9:40 AM – 10:10 AM

**Refreshment Break**

10:10 AM – 11:00 AM

**Diffuse Large B Cell Lymphoma (DLBCL) of Golden Retrievers Has a Unique DNA Methylation Signature That Yields Biomarkers of Disease**

*Jeffrey N. Bryan, DVM, PhD, DACVIM*

*University of Missouri*

11:00 AM – 11:50 AM

**Drug Development and Clinical Trials in Lymphoma**

*Kristen Weishaar, MS, DVM*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Room 212

**Career Development Session: Professional Writing**

*Session Chairs:*

*Lauren Himmel, DVM, PhD, DACVP*

*Vanderbilt University Medical Center*

*Denise Schwahn, DVM, PhD, DACVP*

*Seventh Wave Laboratories LLC*

8:00 AM – 8:50 AM

**Writing for Scientific Publication: Profitable Practices and Possible Perils**

*Brad Bolon, DVM, PhD, DABT, FATS, FIATP, DACVP*

*GEMPath, Inc.*

8:50 AM – 9:40 AM

**Biopsy Reporting in the Digital Age: Lessons from a Beehive**

*Jeff Edwards, DVM, MPH, DACVP*

*Antech Diagnostics*

9:40 AM – 10:10 AM

**Refreshment Break**

10:10 AM – 11:00 AM

**Writing for the Toxicologic Pathologist: Diverse Audiences with Diverse Needs**

*John L. Vahle, DVM, PhD, DACVP*

*Lilly Research Laboratories*

11:00 AM – 11:50 AM

**Writing a CV and Promotions Documentation**

*Michael D. Lairmore, DVM, PhD, DACVP, DACVM*

*University of California, Davis*

11:50 AM – 12:00 PM

**Panel Discussion**

*Brad Bolon, DVM, PhD, DABT, FATS, FIATP, DACVP*

*Jeff Edwards, DVM, MPH, DACVP*

*Michael D. Lairmore, DVM, PhD, DACVM, DACVP*

*John L. Vahle, DVM, PhD, DACVP*

8:00 AM – 12:00 PM

West Room 202

**Concurrent Session I: Phenotypic Analysis of Developing Mice**

*Session Chair:*

*Susan Newbigging, DVM, DVSc*

*The Centre for Phenogenomics*

8:00 AM – 8:50 AM

**Preparation of Embryonic and Perinatal Mice for Histopathological Evaluation**

*Susan Newbigging, DVM, DVSc*

8:50 AM – 9:40 AM

**A Primer on Mouse Embryo and Perinatal Histopathological Evaluation**

*Jerrold M. Ward, DVM, PhD, DACVP*  
*Global VetPathology*

9:40 AM – 10:10 AM

**Refreshment Break**

10:10 AM – 11:00 AM

**A Primer on Placenta Processing and Pathology**

*Brad Bolon, DVM, PhD, DABT, FATS, FIATP, DACVP*  
*GEMPath, Inc.*

11:00 AM – 11:50 AM

**Clinical Pathology in Embryonic and Perinatal Mice**

*Kelli Boyd, DVM, PhD, DACVP*  
*Vanderbilt University Medical Center*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Room 205

**Industrial and Toxicologic Pathology Focused Scientific Session I**

Session Chair:

*G. Palanisamy*

Committee Members:

*K. Janardhan (Co-Chair), T. Crabbs (Past Chair),  
M. Bockenstedt, G. Cain, C. Colleton, K. Helke, R. Johnson,  
K. Knostman*

8:00 AM – 8:05 AM

**Introduction****Invited Speaker**

8:05 AM – 9:00 AM

**MOVING FROM 'WHAT YOU THINK' TO 'WHAT YOU KNOW' MINDSET IN DRUG DEVELOPMENT***K. Pandher*

9:00 AM – 9:15 AM

**COMPREHENSIVE HISTOLOGIC STUDY OF THE REPRODUCTIVE SYSTEM OF HONEY BEE QUEEN**

*I. Kozii<sup>#</sup>, S. Wood, R. Koxiy, C. Van Rensburg, J. Morris,  
S. Derveau, I. Moshynskyy, M. Ferrari, A. Al-Dissi and  
E. Simko*

Keyword: Reproductive System

9:15 AM – 9:30 AM

**CHARACTERIZATION OF REPRODUCTIVE TOXICITY OF IN UTERO EXPOSURE TO POLYCYCLIC AROMATIC HYDROCARBONS IN WILD-TYPE AND CYPB1 NULL MICE**

*C. Dores<sup>#</sup>, E. Madeen, T. Harper, L. Shorey, F. Gonzalez,  
E. Ho, R. Dashwood, D. Williams, U. Luderer and C.V.  
Löhr*

Keyword: Reproductive System

9:30 AM – 9:45 AM

**A PRECLINICAL SAFETY ASSESSMENT OF TWO CHIMERIC ANTIGEN RECEPTOR T (CAR T) CELL THERAPIES**

*J. Rottman, K. Ganley, B. Daly, H. Horton, K. Friedman,  
M. Perkins, S. Grande and C. Horvath*

Keyword: Neoplasia

9:45 AM – 10:00 AM

**VACCINATION OF MICE WITH VC2, A NOVEL MUTANT STRAIN OF HERPES SIMPLEX VIRUS 1, PROTECTS AGAINST OCULAR HERPESVIRAL INFECTION**

*S. Naidu<sup>#</sup>, B. Stanfield, N. Jambunathan, N. Cheemaria,  
V. Chouljenko, R. Carter, I. Langohr, K. Kousoulas*

Keyword: Immune System

10:00 AM – 10:30 AM

**REFRESHMENT BREAK - VISIT THE INDUSTRIAL AND TOXICOLOGIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!****Invited Speaker**

10:30 AM – 11:30 AM

**DRUG DEVELOPMENT PROGRAMS USING CRISPR/CAS9: IMPORTANT SAFETY CONSIDERATIONS***D. Ibrahim Aibo*

11:30 AM – 12:00 PM

**ANATOMIC PATHOLOGY FINDINGS IN THE SKIN AND LUNG OF RATS AND DOGS RECEIVING HIGH DOSES OF A POTENT ACETYL-COA CARBOXYLASE INHIBITOR ARE CONSISTENT WITH A FATTY ACID DEFICIENCY SYNDROME**

*F. Geoly, K. Biddle, T. Schmahari, A. Shoieb, I. Pardo, K.  
Gropp, K. Pandher, D. Lettiere, W. Reagan, C. Somps, J.  
Fortner, L. Updyke, G. Cappon and W. Esler*

Keyword: Toxicologic Pathology

<sup>#</sup>Competitor for the Society of Toxicologic Pathology  
Resident and Student Poster Award

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*

**8:00 AM – 12:00 PM**

West Room 119

**Natural Disease Focused Scientific Session I**

Session Chair:

F.A. Uzal

Committee Members:

G.J. Haldorson (Past Chair), D.R. Rissi (Co-Chair), Pompei

G.F. Bolfa, J.B. Engiles, A.E. Pillatzki, H. Fenton

**Invited Speaker**

8:00 AM – 8:45 AM

**ORAL MUCOSA DISEASES IN DOGS: HOW HELPFUL ARE THE FUNDAMENTALS OF DERMATOPATHOLOGY?**

C. Bell

8:45 AM – 9:00 AM

**PANCREATITIS, PANNICULITIS, AND POLYARTHRITIS (PPP) SYNDROME IN DOGS**

A. Talley, J. Luff, H. Shive, K. Linder

Keyword: Liver and Pancreas

9:00 AM – 9:15 AM

**AMDOPARVOVIRUS INFECTION IN RED PANDAS (AILURUS FULGENS)**

C.E. Alex, S.V. Kubiski, L. Li, R. Sadeghi, R. Wack, M.A.

McCarthy, J.B. Pesavento, E. Delwart, P.A. Pesavento

Keyword: Infectious Disease

9:15 AM – 9:30 AM

**DISEASE SURVEILLANCE IN SMALL POULTRY FLOCKS IN ONTARIO**

N. Brochu, M. Guerin, C. Varga, M. Brash, L. Susta

Keyword: Avian

9:30 AM – 9:45 AM

**HOOKWORM CLEARANCE IN SOUTH AMERICAN FUR SEAL PUPS (ARCTOCEPHALUS AUSTRALIS): MECHANISMS AND ROLE IN PUP SURVIVAL**

M. Seguel, F. Montalva, D. Perez-Venegas, J. Gutierrez,

V. Alvarado, E. Howerth, N. Gottdenker

Keyword: Immune System

9:45 AM – 10:00 AM

**EQUINE PAPILLOMAVIRUS TYPE 2 RNA IN SITU HYBRIDIZATION AS A DIAGNOSTIC TOOL FOR EQUINE PENILE LESIONS**

C.G. Knight, S. Greenwood, C. Klein, S. Sharpe, G.L.

Wachoski-Dark, B. Wobeser

Keyword: Neoplasia

10:00 AM – 10:30 AM

**REFRESHMENT BREAK—VISIT THE NATURAL DISEASE FOCUSED SCIENTIFIC POSTERS!**

10:30 AM – 10:45 AM

**RESPIRATORY DISEASE IN PYTHONS EXPERIMENTALLY INFECTED WITH PYTHON NIDOVIRUS AND OTHER UPDATES ON THIS EMERGING VETERINARY DISEASE**

L. Hoon-Hanks, M.L. Layton, R.J. Ossiboff, E.J. Dubovi,

M.D. Stenglein

Keyword: Infectious Disease

10:45 AM – 11:00 AM

**CYSTIC AND MYXOMATOUS LESIONS OF THE FELINE SYNOVIUM**

L.E. Craig, P.M. Krimer

Keyword: Bone and Joint

**Invited Speaker**

11:00 AM – 12:00 PM

**APPLICATION OF PRINCIPLES OF LIVER DISEASE TO THE INTERPRETATION OF GROSS AND HISTOLOGICAL LIVER CHANGES: AN INTERACTIVE SESSION**

W.R. Kelly

**8:00 AM – 11:30 AM**

West Room 223

**ASVCP Veterinary Laboratory Professionals Session I**

Session Chair:

Nicole K. Rosen, MT(ASCP)

Purdue University

8:00 AM – 9:00 AM

**Quality Assurance Anonymous: Case Studies in QC Evaluation**

A Russell Moore, DVM, MS, DACVP

Colorado State University

9:00 AM – 10:00 AM

**Laboratory Quality Assurance**

Gregory Freeman, MBA

Antech Diagnostics

10:00 AM – 10:30 AM

**Refreshment Break**

10:30 AM – 11:30 AM

**Point of Care Testing --- Glucometers with a Discussion of QC Issues**

Kendal Harr, MS, DVM, DACVP

Urika, LLC

8:15 AM – 4:30 PM

West Room 306

**ACVP Council Meeting**

9:00 AM – 5:00 PM

West Room 106

**Career Center**

9:30 AM – 4:30 PM

West Ballroom C

**Exhibits and Silent Auction****Focused Scientific Poster Session and Late-Breaking****Poster Session**

10:00 AM – 10:30 AM

West Ballroom C

**Industrial and Toxicologic Pathology Focused Group  
Poster Session****Natural Disease Focused Group Poster Session**

(authors present for discussion and questions)

10:00 AM – 5:00 PM

West Room 210

**Guest and Student Hospitality Room**

Students and guests are welcome to use this room to meet, check in with social media, or just relax.

12:00 PM – 1:30 PM

**Lunch Break (on your own)**

12:00 PM – 1:30 PM

West Room 115

**Veterinary Clinical Pathology Editorial Board Meeting**

12:00 PM – 2:00 PM

West Room 110

**Veterinary Pathology Trainee/Resident Luncheon***Sponsored by IDEXX*

12:15 PM – 1:15 PM

West Room 119

**Emerging Disease Focus Seminar****Emergence of Antibiotic Resistant Organisms***Session Chair:**Schantel A. Booknight, DVM, PhD, DACVP**Charles River*

12:15 PM – 12:45 PM

**Superbug Me: A Field Guide to Clinical and  
Occupational Risks from MRSA and C. Difficile***Meghan Frost Davis, MPH, DVM, PhD**Johns Hopkins School of Public Health*

12:45 PM – 1:15 PM

**Clostridium Difficile Associated Disease: An  
Emerging Zoonosis?***Francisco A. Uzal, DVM, PhD, DACVP**University of California, Davis*

1:00 PM – 4:30 PM

West Room 223

**ASVCP Veterinary Laboratory Professionals Session II***Session Chair:**Nicole K. Rosen, MT(ASCP)**Purdue University*

1:00 PM – 2:00 PM

**ProCyte and Advia Cytograms***Dennis DeNicola, DVM, PhD, DACVP**Purdue University*

2:00 PM – 3:00 PM

**Ferret Lymphoma***Bruce H. Williams, DVM, DACVP**Joint Pathology Center*

3:00 PM – 3:30 PM

**Refreshment Break**

3:30 PM – 4:00 PM

**Is Basophilia Really Rare?***Harold Tvedten, DVM, PhD, DECVCP, DACVP**Swedish University of Agricultural Sciences*

4:00 PM – 4:30 PM

**ProCyte dx Neutrophil-Lymphocyte Error:  
Frequency, Severity and How to Avoid It***Harold Tvedten, DVM, PhD, DECVCP, DACVP*

1:30 PM – 4:30 PM

West Room 202

**Clinical Pathology Focused Scientific Session I***Session Chair:**K. Zimmerman**Committee Members:**E. Behling-Kelly, S. Clark, S. Connolly, M. Fry, N. Tripathi, C.**Wagg***Invited Speaker**

1:30 PM – 2:30 PM

**INVESTIGATING THE ROLE OF EXOSOMES IN  
DISEASE PROGRESSION, IMMUNE REGULATION  
AND DRUG RESISTANCE***S. Bracha*

2:30 PM – 2:45 PM

**EVALUATION OF AN IN-HOUSE AUTOMATED  
URINE SEDIMENT ANALYZER FOR QUALITATIVE  
EVALUATION OF STRUVITE AND CALCIUM OXALATE  
DIHYDRATE CRYSTALS***R. Alleman, G. Bilbrough, J. Hammond, D. McCrann, M.**Celine, A. Ramanujam, J. Ogeer, D. DeNicola*

Keyword: Urinary System

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*

2:45 PM – 3:15 PM

**REFRESHMENT BREAK - VISIT THE CLINICAL PATHOLOGY FOCUSED SCIENTIFIC POSTERS!**

3:15 PM – 3:30 PM

**COMPARISON OF METHODS FOR PREPARATION OF BIOFLUIDS IN DOGS FOR SMALL RNA SEQUENCING***C.P. Chu,<sup>1,2</sup> N.B. Nabity*

Keyword: Clinical Pathology

3:30 PM – 3:45 PM

**INCREASED IGG AND PHOSPHATIDYLSERINE ON MARROW ERYTHROID PRECURSORS OF DOGS WITH PRECURSOR-TARGETED IMMUNE-MEDIATED ANEMIA AND ON BLOOD RBCS OF DOGS WITH IMMUNE-MEDIATED HEMOLYTIC ANEMIA***C.A. Lucidi,<sup>1</sup> J.A. Gerlach, L.A. Jutkowitz, M.A. Scott*

Keyword: Hematology

3:45 PM – 4:00 PM

**VIRTUAL MICROSCOPY IS MORE EFFECTIVE THAN CONVENTIONAL MICROSCOPY FOR TEACHING CYTOLOGY TO VETERINARY STUDENTS: A RANDOMIZED CONTROLLED TRIAL***S.J.M. Evans,<sup>1,2</sup> A.R. Moore, C.S. Olver, P.R. Avery, A.B.**West*

Keyword: Cytology

4:00 PM – 4:15 PM

**INTRANUCLEAR CYTOPLASMIC INVAGINATIONS IN SMALL ANIMALS: A RETROSPECTIVE STUDY OF 18 CASES***C. Attipa,<sup>1,2</sup> B. Szladovits*

Keyword: Cytology

4:15 PM – 4:30 PM

**FOLLOW-UP MONITORING IN A CAT WITH LEISHMANIOSIS AND CO-INFECTIONS WITH HEPATOZOON FELIS AND "CANDIDATUS MYCOPLASMA HAEMOMINUTUM"***C. Attipa,<sup>1,2</sup> K. Neofytou, C. Yiapanis, P.M. Orellana, G. Baneth, Y.N. Biala, H.B. Brownlie, S.L. Gallego, S. Tasker*

Keyword: Infectious Disease

<sup>1</sup> Competitor for the ASVCP Young Investigator Award<sup>2</sup> Competitor for the ASVCP Share the Future Travel Award

1:30 PM – 5:00 PM

West Room 205

**Experimental Disease Focused Scientific Session I**

Session Chair:

*L. Baseler*

Committee Members:

*O. Foreman, S. Gumber (Co-Chair), L. Janke (Past Chair), S. Montgomery, S. Santagostino, M. Sebastian*

1:30 PM – 1:45 PM

**USING NEXT GENERATION SEQUENCING TO IDENTIFY DRIVERS OF OSTEOSARCOMA METASTASIS THAT CAN BE TESTED IN A PATIENT-DERIVED XENOGRAFT MODEL SYSTEM***A. Koehne, L. Sayles, A. Lee, M. Breese, S. Leung, A.**Spillinger and A. Sweet-Cordero*

Keyword: Neoplasia

**Invited Speaker**

1:45 PM – 2:30 PM

**NEXT GENERATION HUMANIZED MICE IN BIOMEDICAL RESEARCH***L. Shultz*

2:30 PM – 2:45 PM

**MULTIORGAN PATHOLOGIC CHARACTERIZATION OF MURINE XENOGENEIC GVHD***S.F. Santagostino, J. White, A. Piersigilli, C. Meschter, M.**Smith, M. Docampo, E. Smith, N. Cheung, S.S. Hoseini,**E. de Stanchina, V. Browne, W. Cohen and S. Monette*

Keyword: Toxicologic Pathology

2:45 PM – 3:00 PM

**IDENTIFYING PLACENTAL PHENOTYPES OF PREECLAMPSIA FOLLOWING VASOPRESSIN INFUSION IN PREGNANT MICE***K. Gibson-Corley, J. Sandgren, K. Perschbacher, G.**Deng, D. Santillan, M. Santillan and J. Grobe*

Keyword: Reproductive System

3:00 PM – 3:30 PM

**REFRESHMENT BREAK - VISIT THE EXPERIMENTAL DISEASE FOCUSED SCIENTIFIC POSTERS!****Invited Speaker**

3:30 PM – 4:30 PM

**THE DOG AGING PROJECT: TARGETING AGING TO PROMOTE HEALTHY LONGEVITY IN DOGS***M. Kaeberlein*

4:30 PM – 4:45 PM

**A TISSUE EXPLANT MODEL USING LUNG AND LYMPH NODE TO STUDY THE PATHOGENESIS OF CANINE DISTEMPOR VIRUS***O. Gonzales-Viera, K. Woolard and K. Keel*

Keyword: Infectious Disease

4:45 PM – 5:00 PM

**A SYNGENEIC IMMUNOCOMPETENT DOUBLE-LABELED B16F10 MURINE MELANOMA MODEL FOR EFFICACY AND SAFETY TESTING OF ONCOLYTIC VIROTHERAPY USING THE HSV-1 VC2 LIVE-ATTENUATED VACCINE STRAIN**

*N. Fowlkes, D. Townsend, B. Stanfield, P. Rider, V. Chouljenko, R. Nabi, R. Subramanian, M. Mathis and K. Kousoulas*  
 Keyword: Neoplasia

1:30 PM – 5:00 PM

West Room 221

**Natural Disease Focused Scientific Session II**

*Session Chair:*

*F.A. Uzal*

*Committee Members:*

*G.J. Haldorson (Past Chair), D.R. Rissi (Co-Chair), Pompei G.F. Bolfa, J.B. Engiles, H. Fenton, A.E. Pillatzki*

**Invited Speaker**

1:30 PM – 2:15 PM

**LIVESTOCK NEUROPATHOLOGY: NEW DISEASES, NEW APPROACHES**

*S.F.E. Scholes*

2:15 PM – 2:30 PM

**DEMONSTRATION OF OVHV2, THE AGENT OF SHEEP ASSOCIATED MALIGNANT CATARRHAL FEVER, IN FORMALIN-FIXED TISSUES**

*P.A. Pesavento, D. O'Toole, C. Cunha, H. Li*  
 Keyword: Infectious Disease

2:30 PM – 2:45 PM

**BACTERIAL BIOGEOGRAPHY IN THE COLON OF DOGS WITH CHRONIC ENTEROPATHY**

*P.R. Giarretta, J.S. Suchodolski, J.M. Steiner, J.A. Lidbury, R.R. Rech*  
 Keyword: Alimentary

2:45 PM – 3:00 PM

**HISTOPATHOLOGICAL CHARACTERIZATION AND PROPOSED GRADING SYSTEM FOR EQUINE ARYTENOID CHONDROSIS/CHONDROPATHY**

*P. Bolfa, M. Dennis, L. Dellagrotte, M. Cercone, N. Ducharme*  
 Keyword: Respiratory

3:00 PM – 3:30 PM

**REFRESHMENT BREAK**

3:30 PM – 3:45 PM

**THYROIDITIS IN FREE-LIVING WOLVERINES (GULO GULO) FROM NORTHERN ALASKA, 2014-2017**

*D.S. Rotstein, Q. Harcharek, R. Stimmelmayer*  
 Keyword: Wildlife

3:45 PM – 4:00 PM

**EXPRESSION OF NANOG, NESTIN, OCT3-4 AND SOX2 IN CANINE PROSTATE CANCER**

*M.M. Story, H. Lin, A.M. Alladin, C.E. Fonseca-Alves, R. Laufer-Amorim, V. Grieco, B. Stringer, R. Straw, C. Palmieri*  
 Keyword: Neoplasia

4:00 PM – 4:15 PM

**ELEVATED GAMMA-GLUTAMYL TRANSFERASE ACTIVITY IN RACING THOROUGHBREDS AND ITS ASSOCIATION WITH EQUINE HEPACIVIRUS, EQUINE PEGIVIRUS, AND THEILER'S DISEASE-ASSOCIATED VIRUS INFECTION**

*J.D. Ramsay, R. Evanoff, R.H. Mealey*  
 Keyword: Infectious Disease

**Invited Speaker**

4:15 PM – 5:00 PM

**LARGE ANIMAL MUSCLE DISEASES**

*S.J. Valberg*

1:30 PM – 5:00 PM

West Room 119

**Diagnostic Pathology Focused Scientific Session I**

*Session Chair:*

*L. Kennedy*

*Committee Members:*

*E. Burroughs (Co-Chair), R. Derscheid, F. Oliveria, A. Rodrigues Hoffmann, D. Rotstein (Past Chair), H. Snyman*

1:30 PM – 1:35 PM

**Introduction and Announcements**

1:35 PM – 1:40 PM

**A SURVEY OF GROSS AND HISTOLOGIC LESIONS OBSERVED IN UNIVERSITY OF WASHINGTON'S AXENIC MICE (MUS MUSCULUS)**

*I. Barber-Axthelm, A. Hajjar, S. Meeker, C. Hsu, P. Treuting*  
 Keyword: Rodent

1:40 PM – 1:45 PM

**METALLOTHIONEIN EXPRESSION IN DOGS WITH CHRONIC HEPATITIS AND ITS CORRELATION WITH HEPATIC FIBROSIS, INFLAMMATION, AND KI-67 EXPRESSION**

*S. Sridharan, A. Allen, B. Kidney, A. Al-Dissi*  
 Keyword: Liver and Pancreas

1:45 PM – 1:50 PM

**CONGENITAL PULMONARY AIRWAY MALFORMATION-LIKE ANOMALY IN A DOG**

*J. Demchur, C. Margolis, A. Yoskowitz, C. Bradley*  
 Keyword: Respiratory System

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*



1:50 PM – 1:55 PM

**PANFUNGAL NEXT-GENERATION SEQUENCING OF FORMALIN-FIXED, PARAFFIN-EMBEDDED ANIMAL TISSUES ENABLES IDENTIFICATION OF MIXED FUNGAL INFECTIONS***C. Meason-Smith, A. Hoffmann*

Keyword: Infectious Disease

1:55 PM – 2:00 PM

**CANINE RETROPHARYNGEAL LYMPHADENITIS***C-A. Assenmacher, S. Cole, C. Schelling, C. Bradley*

Keyword: Lymphatic

2:00 PM – 2:05 PM—Veterinary Student Presentation

**EFFECTS OF INNATE IMMUNE STIMULATION ON EXPERIMENTAL MANNHEIMIA HAEMOLYTICA INFECTION IN CALVES***E.I. Kaufman, L.L. Bassel, S-N.A. Alsop, K. Stinson, K.**Vulikh, L.R. Siracusa, M.E. Clark, J.L. Caswell*

2:05 PM – 2:10 PM

**CAROLI SYNDROME IN A 6-YEAR-OLD ROTTWEILER***N. Helgert, M. Sula*

Keyword: Liver and Pancreas

2:10 PM – 2:15 PM.

**MYELOID SARCOMA (MS) PRESENTING AS A PARA-OVARIAN MASS IN A JUVENILE DOG***J. Bailey, J. Koehler*

Keyword: Neoplasia

2:15 PM – 2:20 PM

**IMMUNOHISTOCHEMICAL EXPRESSION OF MULTIPLE MYELOMA ONCOGENE 1 IN CANINE CUTANEOUS HISTIOCYTOMA***J. Stilwell, D. Rissi*

Keyword: Skin

2:20 PM – 2:25 PM

**PITUITARY NULL-CELL ADENOMA WITH SUSPECTED STALK SYNDROME IN A FEMALE RHESUS MACAQUE (MACACA MULATTA)***S. Meyers, L. France, C. Garrett, S. Beck*

Keyword: Primates

2:25 PM – 2:30 PM

**SPONTANEOUS ATYPICAL FIBROMAS/ FIBROSARCOMAS IN DJUNGARIAN HAMSTERS (PHODOPUS SUNGORUS)***H. Chang, V. Fei, C. Jeng, F. Wang, C. Liu*

Keyword: Neoplasia

2:30 PM – 2:35 PM

**ARTICULAR HISTOPLASMOSIS IN CATS***S. Fielder, T. Rizzi, J. Meinkoth, A. Hanzlicek, R. Hallman*

Keyword: Infectious Disease

2:35 PM – 2:40 PM

**ULCERATIVE & GRANULOMATOUS GLOSSITIS, PHARYNGITIS & ENTERITIS IN A HEIFER CAUSED BY RHODOCOCCLUS EQUI***A Saied, L. Bryan, D. Bolin*

Keyword: Alimentary

2:40 PM – 2:45 PM

**PRIMARY GASTROINTESTINAL FOLLICULAR LYMPHOMA IN THREE DOGS***M. Richardson, T. Thaiwong, M. Kiupel*

Keyword: Alimentary

2:45 PM – 2:50 PM –Veterinary Student Presentation

**PATHOGENESIS OF CHIKUNGUNYA VIRUS IN EXPERIMENTALLY INFECTED SOUTHERN TOADS (ANAXYRUS TERRESTRIS) AND LEOPARD FROGS (LITHOBATES PIPIENS)***M. Evans, A. Bosco-Lauth, S. Han, A. Hartwig, P. Gordy,**R. Bowen*

2:50 PM – 3:00 PM

**Questions and Discussion**

3:00 PM – 3:30 PM

**REFRESHMENT BREAK—VISIT THE DIAGNOSTIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!**

3:30 PM – 3:35 PM

**PRACTICAL APPLICATION OF MINION NEXT-GENERATION SEQUENCING OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS FOR ROUTINE IDENTIFICATION AND STRAIN TYPING***J. Stanton, K. Lahmers, S. Todd, T. LeRoith*

Keyword: Infectious Disease

3:35 PM – 3:40 PM

**NOVEL LYSOSOMAL STORAGE DISEASE IN A 7-MONTH-OLD GOLDEN RETRIEVER DOG***T. Harm, D. LeVine, S. Christopher, S. Hostetter, E.**Snella, N. Ellinwood, G. Johnson, J. Smith*

Keyword: Nervous System

3:40 PM – 3:45 PM

**NUTRITIONAL SECONDARY HYPERPARATHYROIDISM WITH FIBROUS OSTEODYSTROPHY AND VERTEBRAL FRACTURE IN AN ADULT BLACK FOOTED PENGUIN (SPHENISCUS DEMERSUS)***F. Olufemi, L. Craig*

Keyword: Infectious Disease

3:45 PM – 3:50 PM

**HISTOPATHOLOGIC CHARACTERIZATION OF FELINE BOWENOID IN SITU CARCINOMA-A CASE SERIES***K. Eraham, J. Ward*

Keyword: Neoplasia

3:50 PM – 3:55 PM—Veterinary Student Presentation

**HARD YELLOW LIVER DISEASE IN WEST TEXAS CATTLE***N.J. Castell, M.L. Jones, E.R. Snook, B.C. Lewis, B.F. Porter*

3:55 PM – 4:00 PM

**FEMALE REPRODUCTIVE PATHOLOGY IN GERIATRIC FALLOW DEER (DAMA DAMA)***C. Monahan, W. Shellabarger, K. Thompson, K. Suedmeyer, D. Agnew*

Keyword: Reproductive System

4:00 PM – 4:05 PM

**INTRAOCULAR MALIGNANT TUMOR WITH SECONDARY FUSARIUM INFECTION IN A MARINE FISH DIAGRAMMA PICTUM***W. Li, C. Lo*

Keyword: Neoplasia

4:05 PM – 4:10 PM

**CO-OCCURRENCE OF NASAL POLYPS AND PRIMARY NASAL CARCINOMAS IN DOGS***J. Tarrant, D. Holt, A. Durham*

Keyword: Respiratory System

4:10 PM – 4:15 PM

**HISTOPATHOLOGICAL FINDINGS IN LIVER, GILLS AND KIDNEY OF ACARÁS (GEOPHAGUS BRASILIENSIS) FROM WATER RESERVOIR BILLINGS IN SÃO PAULO STATE, BRAZIL***S. Pulecio Santos, J. Grisi Filho, I. Tasso Gomes, A. Camachos Lopez, V. Paiva Silva, B. Heid, M. Lamparelli, G. Quinaglia, L. Marques de Sa*

Keyword: Environmental Pathology

4:15 PM – 4:20 PM

**NASAL ADENOCARCINOMA WITH INTESTINAL DIFFERENTIATION IN A BEAGLE***C. Kao, F. Pang, H. Chang, C. Jeng, F. Wang, C. Liu*

Keyword: Neoplasia

4:20 PM – 4:25 PM

**ATHEROSCLEROSIS AND STENOSIS OF THE ASCENDING AORTA WITH MYOCARDIAL FIBROSIS AND LEFT VENTRICULAR DILATATION IN A YOUNG MEERKAT (SURICATA SURICATTA)***C. Chen, Y. Lai, H. Chang, C. Wan, C. Jeng, F. Pang*

Keyword: Cardiovascular

4:25 PM – 4:30 PM

**METASTATIC LEIOMYOSARCOMA OF THIGH MUSCLE ORIGIN IN A BUDGERIGAR (MELOPSITTACUS UNDULATES)***P. Sonika, C. Higbie, T. Tully, N. Wakamatsu*

Keyword: Avian

4:30 PM – 4:35 PM

**ASPERGILLUS NIGER-ASSOCIATED CALCIUM OXALATE CRYSTALS IN AN EURASIAN EAGLE OWL (BUBO BUBO)***P. Kiser, D. Meritet, R. Bildfell*

Keyword: Avian

4:35 PM – 4:40 PM

**CO-INFECTION OF MYCOBACTERIUM MARINUM AND M. FORTUITUM IN A CAPTIVE ADULT DIAMONDBACK WATER SNAKE (NERODIA RHOMBIFER) CAUSING DISSEMINATED MYCOBACTERIOSIS WITH AN ACUTE CUTANEOUS MANIFESTATION***T. Negrao Watanabe, E. Sasaki, G. Pirie, N. Wakamatsu*

Keyword: Infectious Disease

4:40 PM – 4:45 PM

**EVALUATION AND OPTIMIZATION OF MOLECULAR CLONALITY ASSAYS FOR CANINE B CELL LYMPHOMA***M. Hwang, N. Darzentas, D. Bienzle, P. Moore, S. Keller*

Keyword: Immune System

4:45 PM – 4:50 PM

**EQUID HERPESVIRUS 5-ASSOCIATED DERMATITIS IN TWO HORSES IN OREGON, USA***C.V. Löhr, P. Kiser, R.J. Bildfell, J.P. Teifke*

Keyword: Skin

4:50 PM – 4:55 PM

**SYSTEMIC AMYLOIDOSIS IN A CAPTIVE POPULATION OF PRONGHORN ANTELOPE (ANTILOCAPRA AMERICANA)***M. Martinez, K. Seeley, D. Zimmerman, P. Bapodra, R. Cianciolo*

Keyword: Wildlife

3:00 PM – 3:30 PM

West Ballroom C

**Diagnostic Pathology Focused Poster Session**  
(authors present for discussion and questions)

4:30 PM – 5:30 PM

West Room 114

**Flow Cytometry Users Group***(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*



4:30 PM – 6:00 PM

West Room 223

**ASVCP Business Meeting**

5:00 PM – 6:00 PM

"Living Room", 2nd Floor

**"Happy Hour" (cash bar)**

Join your colleagues for an informal networking opportunity.

5:45 PM – 7:30 PM

West Room 212

**ACVP Town Hall Business Meeting**

7:00 PM – 9:00 PM

Waterfront Ballroom C, Fairmont Hotel

**Antech Reception (by invitation)**

7:30 PM – 9:30 PM

West Room 119

**Mystery Slide Review: Wildlife Diseases***Session Chair:**Judy St. Leger, DVM, DACVP**SeaWorld Parks and Entertainment*

7:30 PM – 9:30 PM

Mackenzie Ballroom I, Fairmont Hotel

**North Carolina State University Alumni Reception**

7:30 PM – 9:30 PM

Waterfront Ballroom A, Fairmont Hotel

**University of Florida College of Veterinary Medicine Alumni Reception**

7:30 PM – 9:30 PM

Mackenzie Ballroom II, Fairmont Hotel

**Washington State University College of Veterinary Medicine Alumni Reception****Monday, November 6, 2017**

7:00 AM – 8:00 AM

Off site at Moonpennies Cafe

**ASVCP Web and Outreach Committee**

7:00 AM – 8:00 AM

West Room 116

**Member Relations Committee**

7:00 AM – 8:00 AM

Burrard Suite, Fairmont Hotel

**Virginia/Maryland Alumni Breakfast**

7:00 AM – 10:00 AM

Terrace, Fairmont Hotel

**C.L. Davis Board of Directors**

7:00 AM – 6:00 PM

West Room 105

**Speaker Ready Room**

7:00 AM – 7:30 PM

West Ballroom A Foyer

**Internet Station***Sponsored by VIN*

7:00 AM – 8:00 AM

West Room 107

**ACVP Strategic Planning Listening Session**

7:00 AM – 8:00 AM

West Room 306

**ACVP Council and Exam Committee**

7:30 AM – 8:30 AM

West Room 115

**ASVCP Veterinary Laboratory Professionals Program Committee**

7:30 AM – 1:00 PM

West Ballroom A Foyer

**Registration and Information Desk**

8:00 AM – 12:00 PM

West Ballroom A

**ACVP and ASVCP Joint Plenary Session: Autophagy***Session Chairs:**David K. Meyerholz, DVM, PhD, DACVP**University of Iowa**Amanda P. Beck, DVM, DACVP**Albert Einstein College of Medicine*

8:00 AM – 8:50 AM

**Autophagy: The Basics***Daniel J. Klionsky, PhD**University of Michigan*

8:50 AM – 9:40 AM

**Autophagy and Secretion in Cancer***Jayanta Debnath, MD**University of California, San Francisco*

9:40 AM – 10:10 AM

**Refreshment Break – Visit the Late-Breaking Scientific Posters**

10:10 AM – 11:00 AM

**Autophagy in Host Defense***Christina Stallings, PhD**Washington University School of Medicine*

11:00 AM – 11:50 AM

**Autophagy in Neurodegenerative Disease***Zhenyu Yue, PhD**Leon and Norma Hess Center for Science and Medicine*

11:50 AM – 12:00 PM

**Questions and Discussion**

9:00 AM – 12:00 PM

West Room 223

**ASVCP Veterinary Laboratory Professionals Session III***Session Chair:**Nicole K. Rosen, MT(ASCP)**Purdue University*

9:00 AM – 10:30 AM

**Advia Cytograms: Interpretive Strategies and Challenging Cases***Kirstin Barnhart, DVM, PhD, DACVP**AbbVie, Inc.*

10:30 AM – 11:00 AM

**Refreshment Break**

11:00 AM – 12:00 PM

**C-reactive Protein in Dogs and Serum Amyloid A in Cats: Analytical Methods and Clinical Applications***Anna Hillström, DVM, VMD, DECVCP**Swedish University of Agricultural Sciences*

9:00 AM – 5:00 PM

West Room 106

**Career Center**

9:30 AM – 1:00 PM

West Ballroom C

**Exhibits and Silent Auction****Focused Scientific Posters and Late-Breaking Poster Session**

9:40 a.m.-10:10 a.m.

West Ballroom C

**Late-Breaking Focused Poster Session***(authors present for discussion and questions)*

10:00 AM – 5:00 PM

West Room 210

**Guest and Student Hospitality Room**

12:00 PM – 1:30 PM

**Lunch Break (on your own)**

12:15 PM – 1:15 PM

West Room 306

**ACVP Council and Education Committee**

12:15 PM – 1:15 PM

West Room 205

**Veterinary Pathology Journal Editors Present: Designing and Publishing Observational Studies in Veterinary Pathology***Session Chair:**Jeff Caswell, DVM, PhD, DACVP**Ontario Veterinary College, University of Guelph*

12:15 PM – 1:15 PM

West Room 202

**What You Need to Know About Maintenance of Certification***Session Chair:**Amy C. Durham, MS, VMD, DACVP**University of Pennsylvania*

12:15 PM – 1:45 PM

West Room 223 (presented in English)

**Latin American Pathology Group Presents***Session Chair:**Ana Alcaraz, DVM, PhD, DACVP**Western University of Health Sciences**Melissa Sanchez, VMD, PhD, DACVP**Antech Diagnostics*

12:15 PM – 12:25 PM

**Introduction**

12:25 PM – 12:55 PM

**Principles and Deduction in Disease Diagnosis: An Interactive Excursion***W. Roger Kelly, BVSc, MVSc, PhD**University of Queensland, Australia*

12:55 PM – 1:10 PM

**Retrospective Study of Fatal Pneumonia in Racehorses***Francisco Carvalho, DVM, DCs, DACVP**University of California, Davis*

1:10 PM – 1:40 PM

**Important Diseases of Cattle in Brazil***Claudio Barros, DVM, PhD, DACVP**Federal University of Mato Grosso do Sul, Brazil*

1:40 PM – 1:45 PM

**Questions and Discussion**

1:45 PM – 3:30 PM

**Latin Comparative Pathology Group Business Meeting**

1:30 PM – 3:30 PM

West Room 221

**ASVCP Case Discussion Session***(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*

1:30 PM – 4:30 PM

West Room 107

**Community Service Activity: Clean the World**

Join your fellow meeting attendees for the ACVP Community Outreach Activity (CO-Act). This year, attendees will have the opportunity to assemble hygiene kits for First United, a year-round shelter providing 60 beds each night for the homeless. To learn more about the organization with whom ACVP is partnering, visit <https://firstunited.ca/housing-and-shelter/>.

1:45 PM – 3:00 PM

West Room 205

**Meet the Pathologists: A Discussion of Careers in Pathology****Panelists:**

Tara P. Arndt, DVM, DACVP

Covance Laboratories

David K. Meyerholz, DVM, PhD, DACVP

University of Iowa

Dorothee Bienzle, DVM, PhD, DACVP

University of Guelph

*Sponsored by the NIH Comparative Biomedical Scientist Training Program*

3:00 PM – 5:00 PM

West Room 211

**Veterinary Student and Resident Forum**

3:45 PM – 5:15 PM

West Room 223

**ASVCP Education Forum for Discussion: Tips and Tricks for Teaching Clinical Pathology***Session Chair:*

Deanna Schaefer, DVM, MT(ASCP), DACVP

University of Tennessee

3:45 PM – 4:45 PM

West Room 205

**Clinical Immunology Special Interest Group***Session Chair:*

Amy L. MacNeill, DVM, PhD, DACVP

Colorado State University

5:00 PM – 6:30 PM

Waterfront Ballroom A, Fairmont Hotel

**C.L. Davis Foundation Reception**

5:15 PM – 6:45 PM

Waterfront Ballroom C, Fairmont Hotel

**ASVCP Reception**

5:30 PM – 7:00 PM

Waterfront Ballroom B, Fairmont Hotel

**ACVP New Diplomates Reception***Sponsored by IDEXX*

6:00 PM – 7:30 PM

Cheakamus, Fairmont Hotel

**University of Pennsylvania School of Veterinary Medicine Alumni Reception**

6:30 PM – 8:30 PM

Tap &amp; Barrel (1055 Canada Place—off site)

**University of Illinois College of Veterinary Medicine Alumni Reception**

6:30 PM – 8:00 PM

Terrace, Fairmont Hotel

**Iowa State University College of Veterinary Medicine Alumni Reception**

6:30 PM – 8:00 PM

West Room 115

**University of Georgia College of Veterinary Medicine Alumni Reception**

7:00 PM – 8:00 PM

Mackenzie Ballroom I, Fairmont Hotel

**ASVCP Hollywood Squares Event**

7:00 PM – 9:00 PM

Steam Works Brew Pub (off site)

**Colorado State University Pathology Alumni and Friends Reception**

7:00 PM – 9:00 PM

Princess Louisa Suite, Fairmont Hotel

**Ohio State University College of Veterinary Medicine Alumni Reception**

7:00 PM – 9:00 PM

Mackenzie Ballroom II, Fairmont Hotel

**University of California Davis College of Veterinary Medicine Alumni Reception**

7:00 PM – 9:00 PM

West Room 119

**Mystery Slide Review: Neuropathology***Session Chair:*

Jey Koehler, DVM, PhD, DACVP

Auburn University

**Tuesday, November 7, 2017**

7:00 AM – 8:00 AM

West Room 115

**ACVP Past Presidents Breakfast**

7:00 AM – 8:00 AM

West Room 116

**ASVCP Education Committee**

7:00 AM – 8:00 AM

West Room 114

**ACVP Strategic Planning Committee**

7:00 AM – 8:00 AM

West Room 117

**ASVCP Program Committee**

7:00 AM – 10:00 AM

West Room 107

**Certifying Examination Board**

7:00 AM – 6:00 PM

West Room 105

**Speaker Ready Room**

7:30 AM – 5:00 PM

West Ballroom A Foyer

**Registration and Information Desk**

7:30 AM – 7:30 PM

West Ballroom A Foyer

**Internet Station***Sponsored by VIN*

8:00 AM – 10:00 AM

West Room 210

**International Veterinary Pathology Coalition**

8:00 AM – 12:00 PM

West Room 202

**Clinical Pathology Focused Scientific Session II***Session Chair:**K. Zimmerman**Committee Members:**E. Behling-Kelly, S. Clark, S. Connolly, M. Fry, N. Tripathi, C.**Wagg*

8:00 AM – 8:15 AM

**SERUM PROTEIN ELECTROPHORESIS IN HEALTHY AND INJURED WHITE RHINOCEROS (CERATOTHERIUM SIMUM)***M.H. Hooijberg, C. Cray, M. Miller, P. Buss, G. Steenkamp, A. Goddard*

Keyword: Wildlife

8:15 AM – 8:30 AM

**A NANOPARTICLE VECTORED 35KD MEMBRANE PROTEIN FROM MYCOBACTERIUM PARATUBERCULOSIS ELICITS DEVELOPMENT OF CYTOTOXIC CD8 T CELLS WITH ABILITY TO KILL INTRACELLULAR BACTERIA***C.D. Souza, G.S. Abdellrazeq, M.M. Elnaggar, J.P. Bannantine, W.C. Davis*

Keyword: Immune System

8:30 AM – 8:45 AM

**MYCOPLASMA HAEMOLAMAE AND FECAL EGG COUNT RELATIONSHIPS WITH ERYTHROCYTE VALUES IN CLINICALLY HEALTHY CAMELIDS***L.C. Viesselmann, R. Videla, J.J. Schaefer, B. Flatland, D.M.W. Schaefer*

Keyword: Infectious Disease

8:45 AM – 9:00 AM

**CAMELID ERYTHROCYTE VALUES BY AUTOMATED VERSUS MANUAL METHODS***D.M.W. Schaefer, L.C. Viesselmann, T. Stokol, R. Videla, B. Flatland*

Keyword: Hematology

9:00 AM – 9:15 AM

**BIOLOGICAL VARIATION OF COMMON HEMATOLOGICAL MEASURANDS IN 9 HEALTHY HORSES***L. Giori, B. Flatland, X. Sun, K.A. McCormick, K. Fecteau*

Keyword: Hematology

9:15 AM – 9:30 AM

**COMPARISON OF TOTAL ALLOWABLE AND TOTAL OBSERVED ERROR FOR 2 HEMATOLOGY ANALYZERS***Y. Rautenbach, E.H. Hooijberg*

Keyword: Clinical Pathology

9:30 AM – 9:45 AM

**GROWTH OF ADENOCARCINOMA CELLS FROM CANINE PLEURAL FLUID ON AEROBIC MICROBIOLOGY CULTURE***A.F. Dusick, J.F. Bach, P.T. Liao, F.A. Hartmann*

Keyword: Cytology

9:45 AM – 10:15 AM

**REFRESHMENT BREAK - VISIT THE CLINICAL PATHOLOGY FOCUSED SCIENTIFIC POSTERS!****Invited Speaker**

10:15 AM – 11:15 AM

**CANINE CARS - DRIVING NEW HOPES FOR EFFECTIVE TREATMENT OF LYMPHOMA***N. Mason*

11:15 AM – 11:30 AM

**IDENTIFICATION OF A SINGLE BASE DELETION IN THE GLYCOPROTEIN IIB GENE CAUSING GLANZMANN THROMBASTHENIA IN A GOLDEN RETRIEVER***P.W. Christopherson, A. Hill, M.B. Brooks, M. Scofield, K.B. King, M.K. Boudreaux*

Keyword: Clinical Pathology

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*

11:30 AM – 11:45 AM

**HIGH AGGREGATION ACTIVITY OF PLATELETS FROM AKITA DOG***S. Neo, A. Tokunaga, E. Ogawa, F. Asai*

Keyword: Hematology

11:45 AM – 12:00 PM

**CHARACTERIZATION OF THE WAVEFORM DATA IN CANINE AND FELINE CONGENITAL HEMOSTATIC DISEASE***A.D. Gwynn, K.J. Little, D.M. Seelig, K.D. Williams, L.C.**Sharkey*

Keyword: Hematology

8:00 AM – 12:00 PM

West Room 119

**Concurrent Session II: Ear Evaluation in Pathology and Toxicity**

Session Chair:

*Bradley L. Njaa, DVM, MVSc, DACVP**Kansas State University**Kenneth A. Schafer, DVM, PhD, DACVP**Vet Path Services, Inc.*

8:00 AM – 8:40 AM

**Comparative Anatomy and Physiology of the External and Middle Ear***Bradley L. Njaa, DVM, MVSc, DACVP*

8:40 AM – 9:20 AM

**Anatomy and Physiology of Hearing and Balance***Teresa Southard, DVM, PhD, DACVP**Cornell University College of Veterinary Medicine*

9:20 AM – 10:00 AM

**Non-Clinical In-Life Study Requirements to Assess Ototoxicity***Rachel Tapp, MS**MPI Research*

10:00 AM – 10:30 AM

**Refreshment Break**

10:30 AM – 11:10 AM

**Otic Pathology of Domestic Animals***Bradley L. Njaa, DVM, MVSc, DACVP*

11:10 AM – 11:50 AM

**Otic Toxicologic Pathology - Histopathologic Evaluation of the Ear***Kenneth A. Schafer, DVM, PhD, DACVP, FIATP*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Room 205

**Concurrent Session III: Pathology of Commercial Salmonids**

Session Chair:

*Heindrich Snyman, BVSc, DVSc, DACVP**British Columbia Ministry of Agriculture**Stephen Raverty, DVM, PhD, DACVP**British Columbia Ministry of Agriculture*

8:00 AM – 8:50 AM

**Diagnostic Histopathology with a Focus on Gill Diseases of Farmed Salmon***David Speare, DVM, DVSc**University of Prince Edward Island, Atlantic Veterinary College*

8:50 AM – 9:40 AM

**The Politics of Pathology in BC's Aquaculture Industry: How Pathology Plays a Major Role in the Governance of Aquaculture***Brad Hicks, BSc, MSc, DVM**B. Hicks and Associates, Inc.*

9:40 AM – 10:10 AM

**Refreshment Break**

10:10 AM – 11:00 AM

**Long-term Surveillance Identifies Emergent and Declining Diseases Among Farmed Salmon Populations***Gary D. Marty, DVM, PhD, DACVP**British Columbia Ministry of Agriculture*

11:00 AM – 11:50 AM

**Myxobolus Cerebralis Whirls into Banff National Park: What Now?***Heindrich N. Snyman, BVSc, DVSc, DACVP*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Room 223

**Education Focused Scientific Session**

Session Chair:

*M.S. Camus*

Committee Members:

*K.P. Carmichael (Past Chair), M.K. Keel, M. Sula, R. Mo-Peters*

8:00 AM – 8:05 AM

**WELCOME AND SESSION INTRODUCTION***M.S. Camus*

**Invited Speaker**

8:05 AM – 9:20 AM

**COMMUNICATION STYLES—INCREASING EFFECTIVENESS***L. Motsinger***Invited Speaker**

9:20 AM – 10:00 AM

**IMPROVING CROSS-FUNCTIONAL COMMUNICATION: RESOURCES AND CASE STUDIES***E. Meseck*

10:00 AM – 10:30 AM

**REFRESHMENT BREAK****Invited Speaker**

10:30 AM – 11:10 AM

**DISSECTING PATHOLOGY RESIDENCY TRAINING FROM A COMMUNICATION PERSPECTIVE***S. Manifold***Invited Speaker**

11:10 AM – 11:30 AM

**SO, YOU'VE TAKEN THE ACVP BOARD EXAMINATION. CAN YOU TALK ABOUT IT? CULTIVATING A CULTURE OF ETHICAL BEHAVIOR POST-EXAMINATION***E.W. Howerth*

11:30 AM – 11:45 AM

**USING MICROSOFT POWERPOINT TO CREATE INTERACTIVE LEARNING EXERCISES FOR VETERINARY PATHOLOGY STUDENTS***B. Porter*

Keyword: General Topic

11:45 AM – 12:00 PM

**DEVELOPMENT OF A VIRTUAL PATHOLOGY ROUNDS I-BOOK TO SUPPLEMENT LEARNING***O. Illanes*

Keyword: General Topic

9:00 AM – 5:00 PM

West Room 106

**Career Center**

9:30 a.m.-3:30 p.m.

West Ballroom C

**Exhibits and Silent Auction Open Focused Poster Session and Late-Breaking Poster Session**

The Silent Auction closes at 10:30 a.m. Submit your final bids!

Winners will be posted at the afternoon refreshment break!

Last day to visit with the exhibitors!

9:45 a.m.-10:15 a.m.

West Ballroom C

**Clinical Pathology Focused Poster Session**

(authors present for discussion and questions)

10:00 AM – 4:00 PM

West Room 306

**ACVP Council**

10:00 AM – 5:00 PM

West Room 210

**Guest and Student Hospitality Room**

12:00 PM – 1:30 PM

**Lunch Break (on your own)**

12:15 PM – 1:15 PM

West Room 117

**Training Program Network Luncheon**

1:30 PM – 3:30 PM

West Room 114

**ACVP/STP Coalition for Veterinary Pathology Fellows Board of Governors Meeting**

1:30 p.m.-5:00 p.m.

West Room 202

**ASVCP Mystery Slide Case Session**

1:30 PM – 5:00 PM

West Room 221

**Mini-Symposium I: Prion Diseases: Emerging Concerns and Recent Progress***Session Chairs:**Justin Greenlee, DVM, PhD, DACVP**USDA Agricultural Research Service**Christina Sigurdson, DVM, PhD, DACVP**University of California, San Diego*

1:30 PM – 2:15 PM

**Updates on Scrapie: the Prion Disease of Sheep and Goats***Justin Greenlee, DVM, PhD, DACVP*

2:15 PM – 3:00 PM

**Chronic Wasting Disease of North American Cervids***Gordon Mitchell, DVM, PhD**Canadian Food Inspection Agency*

3:00 PM – 3:30 PM

**Refreshment Break**

3:30 PM – 4:15 PM

**The Diagnosis and Differentiation of Classical and Atypical Bovine Spongiform Encephalopathy***Stefanie Czub, DVM, PhD**Canadian Food Inspection Agency**(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*



4:15 PM – 5:00 PM

**Cross Species Prion Transmission and Prion Pathogenesis***Christina Sigurdson, DVM, PhD, DACVP*

1:30 PM – 5:00 PM

West Room 119

**Diagnostic Pathology Focused Scientific Session II**

Session Chair:

*L. Kennedy*

Committee Members:

*E. Burrough (Co-Chair), R. Derscheid, F. Oliveria, A.**Rodrigues Hoffmann, D. Rotstein (Past Chair), H. Snyman*

1:30 PM – 1:40 PM

**CHARACTERIZATION OF NATURAL CANINE DISTEMPER VIRUS INFECTION IN FIVE ADULT LINNAEUS'S TWO-TOED SLOTHS (CHOLOEPUS DIDACTYLUS)***A.M. Watson, A.C. Cushing, J.D. Sheldon, E. Anis, R.P. Wilkes, E.J. Dubovi, L.E. Craig*

Keyword: Infectious Disease

1:40 PM – 1:50 PM

**PATHOLOGIC LESIONS ASSOCIATED WITH NOVEL RAT POLYOMAVIRUS 2 IN A COLONY OF X-SCID RATS***L. Rigatti, T. Toptan, J. Newsome, P. Moore, Y. Chang*

Keyword: Infectious Disease

1:50 PM – 2:00 PM

**NEUROINVASIVE ASTROVIRUSES IN MULTIPLE SPECIES***P. Pesavento, T. Gia Phan, S. Diab, E. Delwart*

Keyword: Infectious Disease

2:00 PM – 2:10 PM

**A NOVEL NEORICKETTSIAL DISEASE IN THREE DOGS IN THE PACIFIC NORTHWEST***G. Pastenkos, D. Bradway, K. Snekvik, I. Cerchiaro, S. Mehain, D. Krytenberg, C. Eckstrand*

Keyword: Infectious Disease

2:10 PM – 2:20 PM

**INVESTIGATING THE CAUSE OF A NODULAR AND ULCERATIVE DERMATITIS IN DONKEYS IN MOROCCO***C. Millins, G. Kay, N. Tligui, H. Tligui, D. Knottenbelt, P. Herzyk*

Keyword: Infectious Disease

2:20 PM – 2:30 PM

**SMALL B CELL LYMPHOMA CASE SERIES: CLINICAL, HISTOPATHOLOGY, AND FLOW CYTOMETRIC FEATURES***K. Hughes, E.J. Ehrhart, L. Harris, E. Rout, J. Yoshimoto, A. Kuzmik, P. Avery, A. Avery*

Keyword: Neoplasia

2:30 PM – 2:40 PM

**CONGENITAL CATARACTS AND MICROPHAKIA WITH RETINAL DYSPLASIA, AND OPTIC NERVE HYPOPLASIA IN A CALF***C. Siepker, K. Carmichael, J. Zimmer, K. Bedard, K. Hart*

Keyword: Infectious Disease

2:40 PM – 2:50 PM

**CLINICAL AND HISTOPATHOLOGICAL CLASSIFICATION OF FELINE INTRAOCULAR LYMPHOMA***A. Muscanio, M. Lanza, R. Dubielzig, A. Durham*

Keyword: Eye and Ear

2:50 PM – 3:00 PM

**HISTOLOGIC AND IMMUNOHISTOCHEMICAL CHARACTERISTICS OF 19 CASES OF EQUINE CUTANEOUS PSEUDOLYMPHOMA AND THE ASSOCIATION WITH BORRELIA BURGDORFERI***J. Malatos, K. Kelly, J. Peters-Kennedy*

Keyword: Skin

3:00 PM – 3:30 PM

**REFRESHMENT BREAK—VISIT THE DIAGNOSTIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!**

3:30 PM – 3:40 PM

**THYMOMA-ASSOCIATED EXFOLIATIVE DERMATITIS IN A GOAT***A. Byas, A. Kunkel, T. Applegate, C. Frank*

Keyword: Skin

3:40 PM – 3:50 PM

**CANINE OCULAR MELANOSIS: MORPHOLOGIC AND IMMUNOHISTOCHEMICAL EVALUATION OF PIGMENTED SCLERAL PLAQUES***E. Noland, E. Dawson-Baglien, S. Peterson-Jones, M. Kiupel, D. Sledge*

Keyword: Eye and Ear

3:50 PM – 4:00 PM

**BACILLUS CEREUS GANGRENOUS MASTITIS IN GOATS***R. Dange, S. Diab, K. Clothier, L. Woods*

Keyword: Mammary

4:00 PM – 4:10 PM

**PATHOLOGY ASSOCIATED WITH A HIGHLY VIRULENT AEROMONAS HYDROPHILA STRAIN IN FARM-RAISED CATFISH**

*W. Baumgartner*

Keyword: Infectious Disease

**2017 ACVP/AAVLD Travel Award Winner**

4:10 PM – 4:20 PM

**RIBONUCLEIC ACID (RNA) DECAY AND THE ESTIMATION OF THE POSTMORTEM INTERVAL (PMI) IN HORSES**

*N. Wenzlow, D. Neal, M. Long*

Keyword: General Topic

4:20 PM – 4:30 PM

**TiLV: A NOVEL ORTHOMYXOVIRUS CAUSING MASSIVE DIE-OFFS IN TILAPIA FISH**

*A. Eldar, E. Bacharach, I. Lipkin*

Keyword: Infectious Disease

4:30 PM – 4:40 PM

**GAMMAHERPESVIRUS-5 REPLICATES IN PULMONARY ALVEOLAR MACROPHAGES AND IS ASSOCIATED WITH A CD3-DRIVEN MAC387+ HISTIOCYTIC RESPONSE IN EQUINE MULTINODULAR PULMONARY FIBROSIS**

*B. Cossic, M. Pennington, A. Glaser, T. Rathbone, G. Van de Walle, G. Duhamel*

Keyword: Infectious Disease

4:40 PM – 4:50 PM

**GROSS AND HISTOPATHOLOGIC CLASSIFICATION OF HEPATOCELLULAR CARCINOMAS IN FENNEC FOXES (VULPES ZERDA)**

*C. Monahan, M. Garner, M. Kiupel*

Keyword: Liver and Pancreas

4:50 PM – 5:00 PM

**FROM THE FDA CASE FILES: PENTOBARBITAL TOXICOSIS AND EXOGENOUS THYROTOXICOSIS IN CANNED DOG FOOD**

*D. Rotstein, J. Jones, A. Hodges, M. Glover, E. Nelson, A. McCoig, O. Ceric, S. Nemser, L. Palmer, L. Carey, J. Queen, J. Erickson, W. Burkholder, E. Edwards, R. Yowell, J. Buchweitz, R. Reimschuessel*

Keyword: General Topic

Competitor for the ACVP/AAVLD Diagnostic Pathology Travel Award

1:30 PM – 5:00 PM

West Room 205

**Experimental Disease Focused Scientific Session II**

Session Chair:

*L. Baseler*

Committee Members:

*O. Foreman, S. Gumber (Co-Chair), L. Janke (Past Chair), S. Montgomery, S. Santagostino, M. Sebastian*

1:30 PM – 1:45 PM

**PATHOLOGY OF AEROSOLIZED SUDAN EBOLAVIRUS INFECTION IN THREE SPECIES OF NONHUMAN PRIMATES**

*D. Nichols, E. Zumbrun and A. Nalca*

Keyword: Infectious Disease

**Invited Speaker**

1:45 PM – 2:30 PM

**BIOMARKERS, BIOTHERAPEUTICS, AND OTHER DISCOVERIES AT THE BOUNDARY OF SPONTANEOUS AND EXPERIMENTAL DISEASE IN ANIMALS**

*J. Modiano*

2:30 PM – 2:45 PM

**OPTIMIZED AND VALIDATED COLLECTION OF GANGLIA FOR TRANSLATIONAL STUDIES IN PIGS**

*D. Meyerholz and L. Reznikov*

Keyword: Nervous System

2:45 PM – 3:00 PM

**A FERRET MODEL OF CYSTIC FIBROSIS (CF)-INDUCED PANCREATIC PATHOLOGY AND ENDOCRINE ISLET REMODELING**

*P. Rotti, J. Engelhardt and K. Gibson-Corley*

Keyword: Ferret

3:00 PM – 3:30 PM

**REFRESHMENT BREAK - VISIT THE EXPERIMENTAL DISEASE FOCUSED SCIENTIFIC POSTERS!**

**Invited Speaker**

3:30 PM – 4:30 PM

**FOLLICULIN INTERACTING PROTEIN-1: AN AMPK-INTERACTING PROTEIN INVOLVED IN B LYMPHOCYTE DEVELOPMENT, TRANSFORMATION, AND SKELETAL MUSCLE METABOLISM**

*B. Iritani*

4:30 PM – 4:45 PM

**CHARACTERIZATION OF AUSTRALIAN LABRADOODLE DYSTROPHINOPATHY**

*S. Shrader, S. Jung and B. Smith*

Keyword: Muscle

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*



4:45 PM – 5:00 PM

**PROTEOMIC ANALYSIS OF LOCAL DISEASE-SPARING RESPONSES TO BOVINE RESPIRATORY SYNCYTIAL VIRUS IN INTRANASALLY-VACCINATED AND CHALLENGED CALVES**

*J. Ellis, D. Gray, S. Gow and M. Mooney*

Keyword: Respiratory System

1:30 PM – 5:00 PM

West Room 223

**Industrial and Toxicologic Pathology Focused Scientific Session II**

*Session Chair:*

*G. Palanisamy*

*Committee Members:*

*K. Janardhan (Co-Chair), T. Crabbs (Past Chair), M. Bockenstedt, G. Cain, C. Colleton, K. Helke, R. Johnson, K. Knostman*

1:30 PM – 1:35 PM

**Introduction**

**Invited Speaker**

1:35 PM – 2:30 PM

**IMMUNOPHENOTYPING OF OCULAR LESIONS ASSOCIATED WITH INTRAVITREAL BIOTHERAPEUTICS**

*O. Turner*

2:30 PM – 3:00 PM

**AN EPITHELIOTROPIC POLYOMAVIRUS PATHOGENIC IN IMMUNODEFICIENT RATS**

*P. Pesavento, C. Beech-Wiilford, S. Hamilton, B. Bauer, B. Kapusinszky, T. Phan, E. Delwart, R. Livingston, S. Cushing, R. Watanabe and M. Myles*

Keyword: Infectious Disease

3:00 PM – 3:30 PM

**REFRESHMENT BREAK - VISIT THE INDUSTRIAL AND TOXICOLOGIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!**

**Invited Speaker**

3:30 PM – 4:30 PM

**DIGITAL PATHOLOGY IN DRUG DISCOVERY**

*V. Schumacher*

4:30 PM – 5:00 PM

**PATHOLOGICAL CHARACTERIZATION OF DRUG INDUCED CENTRAL NERVOUS SYSTEM (CNS) TOXICITY IN RATS ORALLY ADMINISTERED SMALL MOLECULE THERAPEUTIC CANDIDATE COMPOUNDS**

*R. Kikkawa, P. Devine, H. Gu, A. Catoire, R. Johnson, K. Colman*

Keyword: Nervous System

3:00 p.m.-3:30 p.m.

West Ballroom C

**Experimental Disease Focused Poster Session**

(authors present for discussion and questions)

5:15 PM – 6:45 PM

West Room 212

**ACVP Awards and Recognition Event**

*Session Chair:*

*Anne Barger, DVM, PhD, DACVP*

*ACVP President*

*University of Illinois at Champaign-Urbana*

7:00 PM – 9:30 PM

West Ballroom A

**ACVP President's Reception**

*Sponsored by Pfizer*

**Wednesday, November 8, 2017**

7:00 AM – 8:00 AM

West Room 114

**Focused Scientific Group Breakfast**

7:00 AM – 10:00 AM

Princess Louisa Suite, Fairmont Hotel

**International Harmonization (INHAND) Group**

7:00 AM – 11:00 AM

West Room 105

**Speaker Ready Room**

8:00 AM – 1:00 PM

West Ballroom A Foyer

**Registration and Information Desk**

8:00 AM – 12:00 PM

West Room 202

**Concurrent Session IV: Wildlife Pathology of the Great Northwest**

*Session Chair:*

*Judy St. Leger, DVM, DACVP*

*SeaWorld Parks and Entertainment*

8:00 AM – 8:50 AM

**Bringing It all Together: Integrating Killer Whale Pathology and Environmental Concerns**

*Judy St. Leger, DVM, DACVP*

8:50 AM – 9:40 AM

**Pollution as a Conservation Threat in Sealife: Lessons Learned from British Columbia's Charismatic Marine Mammals**

*Peter S. Ross, PhD*

*Vancouver Aquarium Marine Science Centre*

9:40 a.m.-10:10 a.m.

**Refreshment Break**

10:10 AM – 11:00 AM

**The Next Frontier: Update on Protozoal and Fungal infections in the Great Northwest**

*Stephen Raverty, DVM, PhD, DACVP  
British Columbia Ministry of Agriculture*

11:00 AM – 11:50 AM

**Pathology of the Western Pond Turtle: Shell Disease and Impacts on Population Recovery**

*Daniel Woodburn, DVM, DACVP  
University of Illinois, Urbana-Champaign*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Room 205

**Concurrent Session V: Forensic Pathology**

*Session Chair:*

*Rebecca Kagan, DVM, DACVP*

*International Veterinary Forensic Sciences Association*

*Tabitha Viner, DVM, DACVP*

*International Veterinary Forensic Sciences Association*

8:00 AM – 8:50 AM

**Step-by-Step – Avoiding Ethical and Observational Pitfalls in Veterinary Forensics**

*Tabitha Viner, DVM, DACVP*

8:50 AM – 9:40 AM

**Non-traditional Diagnostics for the Forensic Pathologist**

*Rebecca A. Kagan, DVM, DACVP*

9:40 AM – 10:10 AM

**Refreshment Break**

10:10 AM – 11:00 AM

**Forensic Anthropology, Taphonomy and Death Investigations**

*Veronica Vance, PhD  
Oregon State Police, State Medical Examiner  
Division*

11:00 AM – 11:50 AM

**An Overview of Forensic Histopathology**

*Adam W. Stern, DVM, DACVP  
University of Illinois and the Midwest Center for  
Veterinary Forensics*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Room 119

**Mini-Symposium II: Cell Death**

*Session Chair:*

*Caroline Zeiss, DVM, PhD, DACVP*

*Yale University School of Medicine*

*Susan A. Elmore, MS, DVM, DACVP, DABT, FIATP  
NTP/NIEHS*

8:00 AM – 8:50 AM

**Mechanisms of Cell Death: Molecular Concepts and Therapeutic Applications**

*Caroline J. Zeiss, BVSC, PhD, DACVP  
Yale University School of Medicine*

8:50 AM – 9:40 AM

**Various Types of Cell Death, Challenges of Differentiation and Identification**

*Susan A. Elmore, MS, DVM, DABT, FIATP, DACVP  
NTP/NIEHS*

9:40 AM – 10:10 AM

**Refreshment Break**

10:10 AM – 11:00 AM

**The Role of Necroptotic Cell Death in Host Defense**

*Andrew Oberst, PhD  
University of Washington*

11:00 AM – 11:50 AM

**Comparative Oncology Studies in Canine and Human Cancer Immunotherapies**

*Mark Mamula, PhD  
Yale University School of Medicine*

11:50 AM – 12:00 PM

**Questions and Discussion**

8:00 AM – 12:00 PM

West Ballroom A Foyer

**Young Investigator Award Poster Session**

9:30 AM – 11:00 AM

West Room 306

**ACVP Council**

*(Unless indicated otherwise, all sessions are at the Vancouver Convention Centre)*

**1:00 PM – 6:00 PM**

West Room 219

**Post-Meeting Workshop I: Diagnostic Evaluation of the Ultrastructure Pathology**

Session Chair:

*Vincent Meador, DVM, PhD, DACVP**Pacific Tox Path, LLC**Bill Meier, DVM, PhD, DACVP**Covance Laboratories, Inc.*

1:00 PM – 1:10 PM

**Introduction***Vincent Meador, DVM, PhD, DACVP*

1:10 PM – 2:00 PM

**Sample Collection and Approach to Sample Evaluation***Vincent Meador, DVM, PhD, DACVP*

2:00 PM – 2:45 PM

**Infectious Agents***Elizabeth Howerth, DVM, PhD, DACVP**University of Georgia*

2:45 PM – 3:00 PM

**Refreshment Break**

3:00 PM – 3:45 PM

**Case-based Organelle and Extracellular Matrix Morphology and Pathology I: Retina and Kidney***Emily Meseck, DVM, DABT**Novartis Institutes for Biomedical Research*

3:45 PM – 4:30 PM

**Organelle Morphology and Pathology II***Natalie Keirstead, DVM, PhD, DABT**Merck and Co., Inc.*

4:30 p.m.-6:00 p.m.

**Hands-on Session in which Participants will Review Micrographs and Engage in Instructor Led Interpretation**

1:45 PM – 2:30 PM

**Chimeric Antigen Receptor T Cell (CAR-T) for Cancer Therapy***Daher Ibrahim Aibo, DVM, PhD, DACVP**Novartis*

2:30 PM – 3:15 PM

**Preclinical Immunostimulatory Antibody Development***Steven Laing, BVMS(Hons), PhD, MRCVS, DACVP**Genentech, Inc.*

3:15 p.m.-3:30 p.m.

**Refreshment Break**

3:30 p.m.-6:00 p.m.

**Case Presentations**

10 Cases, 15 minutes per case

10 minutes for presentation, 5 for discussion

**1:00 PM – 6:00 PM**

West Room 216

**Post-Meeting Workshop II: Primate Pathology: Immunotherapy**

Session Chair:

*J. Mark Cline, DVM, PhD, DACVP**Wake Forest School of Medicine*

1:00 PM – 1:45 PM

**Monoclonal Antibody Therapy for Immunodeficiency Virus Infection***Nancy L. Haigwood, PhD**Oregon Health Sciences University*

## Veterinary Student Poster Session

### Poster Schedule – West Ballroom C

Saturday, November 4, 2017

Poster Setup . . . . . 5:30 PM – 6:30 PM  
 Awards Judging . . . . . 6:30 PM – 7:30 PM (*no authors present*)  
 Authors Present . . . . . 7:30 PM – 9:00 PM  
 Teardown . . . . . 9:00 PM – 10:00 PM

**SP-01: PATHOLOGY OF PURPLE ANNULAR PIGMENTATION AND TISSUE LOSS IN COMMON SEA FANS (GORGONIA VENTALINA)**

*Gina M. Zeitlin, Michelle M. Dennis*

**SP-02: METASTATIC INTESTINAL ADENOCARCINOMA IN A TIGER+**

*Megan Zalek, Dane Rahoi, Kim Newkirk*

**SP-03: TERATOCARCINOMA IN AN EMU**

*Jessica Wild, Amie Perry, Jeann Leal de Araujo, Sharman Hoppes, Raquel Rech*

**SP-04: SILICATE PNEUMOCONIOSIS IN DOMESTIC AND WILD ANIMALS FROM THE CARIBBEAN ISLAND OF ST. KITTS+**

*Randall Thomas Walker, Pompei F. Bolfa, Oscar Illanes*

**SP-05: IN VITRO VALIDATION OF PROTEIN GERANYLGERANYLATION AS A PHARMACOLOGICAL TARGET FOR THE TREATMENT OF CANINE MAMMARY GLAND TUMORS**

*Anne-Laurence Vigneau, Charlene Rico, Derek Boerboom, Marilène Paquet*

**SP-06: HYPEREOSINOPHILIC SYNDROME AS A CAUSE OF CHRONIC HEPATITIS/ CHOLANGIOHEPATITIS IN 6 CATS**

*Linnette Leticia Vasquez, Oscar Illanes, Carmen Fuentealba, Taryn Donovan*

**SP-07: PHENOTYPIC CHARACTERIZATION OF SNTG1 DEFICIENT MICE+**

*Katherine N. Turnbull, Audrey Cleuren, David Ginsburg, Emilee Kotnik*

**SP-08: TARGETING MINIMAL RESIDUAL DISEASE IN METASTATIC BREAST CANCER+**

*Rebecca K. Tierce, Laura L. Bronsart, Stavros Melemenidis, Marjan Rafat, Yasaman Ahrari, Edward Graves*

**SP-09: SEASONAL VARIATION OF GREY SQUIRREL (SCIURUS CAROLINENSIS) TESTES IS PRODUCED BY MECHANISMS DISTINCT FROM AGE RELATED TESTICULAR REGRESSION**

*Lucie Stratton, Abir Mukherjee*

**SP-10: CANINE CUTANEOUS LYMPHOMA WITH CONCURRENT METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) INFECTION+**

*Ashley E. Saver, Cory R. Hanks, Marigold E. Ernst, Geoffrey K. Saunders*

**SP-12: CLINICOPATHOLOGIC, CYTOLOGIC, AND HISTOLOGIC CHANGES IN AN ALPACA WITH HEPATIC COPPER ACCUMULATION+**

*Shannon J. Reeves, Craig A. Thompson*

**SP-13: MUSCLE FIBRE SIZE IN THE DELTA50-MD CANINE DUCHENNE MUSCULAR DYSTROPHY MODEL**

*Faye Rawson, John Hildyard, Fran Taylor-Brown, Rachel Harron, Dominic Wells, Richard J. Piercy*

**SP-14: ENVIRONMENTAL AWARENESS: RECREATING THE NATURAL TISSUE NICHE IN VITRO FOR CANCER RESEARCH+**

*Brittany Lynn Rasche, Shirisha Chittiboyina, Farzaneh Atrian, Sophie A. Lelièvre*

**SP-15: DEVELOPING A NOVEL PORCINE MODEL OF LARYNGOPHARYNGEAL REFLUX DISEASE**

*Betsy A. Pray, Abigail Durkes*

**SP-16: EVALUATING THE EFFECT OF WHOLE BODY HZE ION IRRADIATION ON METASTASIS IN MMTV-PYMT-INDUCED MAMMARY TUMORS+**

*Sarah Jane Powers, Elijah Edmondson*

**SP-17: INVESTIGATING AN ETIOLOGIC ROLE FOR FELIS CATUS GAMMAHERPESVIRUS 1 IN HIGH-GRADE, LARGE-CELL LYMPHOMA+**

*Tamsen Polley, Julia Beatty, Amy Durham, Alicia McLuckie, Patricia Pesavento*

**SP-18: A PILOT RETROSPECTIVE STUDY OF HYPERFERREMIA AND ELEVATED TRANSFERRIN SATURATION IN DOGS: 48 CASES (2017)+**

*Matthew Pate, Eric Fish, Elizabeth Spangler*

**SP-19: Withdrawn**

**SP-20: ERYTHROCYTE CYTOMORPHOLOGIC CHANGES IN DOGS RECEIVING THE CHOP CHEMOTHERAPY PROTOCOL FOR TREATMENT OF MULTICENTRIC LYMPHOMA+**

*Ariel S. Nenninger, Jeremy Servantes, Shannon Hostetter, Chad Johannes, Austin Viall*

**SP-21: UREMIC ENCEPHALOPATHY IN A RHESUS MACAQUE (MACACA MULATTA)+**

*Allison Mustonen, Olga Gonzalez, Shyamesh Kumar, Elda Mendoza, Edward J. Dick Jr.*

**SP-22: IMMUNE-MEDIATED HEMOLYTIC ANEMIA IN A DOG+**

*Stefanie Muller, Lori Rios, Katherine Boes, Sarah Barrett*

**SP-23: RACCOON POLYOMAVIRUS PERSISTENCE AND NEUROGLIAL TUMORS**

*Alexandra Moskaluk, Kevin Woolard, Patricia Pesavento*

**SP-24: NEOPLASTIC DISEASES IN CAPTIVE PSITTACINE BIRDS SUBMITTED TO THE ONTARIO VETERINARY COLLEGE**

*Kai S. Moore, Nicole Nemeth, Thisuri Eagalle, Hugues Beaufre, Leonardo Susta, Csaba Varga*

**SP-25: STING AGONISTS: A POTENTIAL NOVEL IMMUNOTHERAPY FOR CANINE OSTEOSARCOMA**

Zachary Millman, Maggie Phillips, Brian Ladle, Dara Kraitchman

**SP-26: SPONTANEOUS CERVICAL VERTEBRAL EPIDURAL HEMATOMA IN A QUARTERHORSE WITH NEUROLOGIC SIGNS**

Kathryn McCullough, Laura Chen, Nimet Browne, Jennifer Luff

**SP-27: IMMUNOPHENOTYPING OF LYMPHOCYTES IN A MINIPIG MODEL OF VASCULARIZED COMPOSITE ALLOTRANSPLANTATION**

Caitlin E. Mason, Georg Furtmuller, Gerald Brandacher, Sarah E. Beck

**SP-28: Erb-B2 RECEPTOR TYROSINE KINASE 2 (EERB2/HER2) ANTIBODY SPECIFICITY IN CANINE MAMMARY TUMOURS AND OSTEOSARCOMAS**

Latasha Ludwig, Emily Brouwer, Courtney Schott, Alicia Vilorio-Petit, Geoffrey Wood

**SP-29: HUMAN MACROPHAGES SURVIVE AND ADOPT ACTIVATED GENOTYPES IN LIVING ZEBRAFISH+**

Chaunte Lewis, Colin Paul, Alexis Devine, Kandice Tanner

**SP-30: WIDE-SPREAD POST-TREATMENT PULMONARY THROMBOSIS AND RIGHT-SIDED CONGESTIVE HEART FAILURE IN A SHAR PEI DOG WITH HEART WORM DISEASE AND MALIGNANT ROUND CELL TUMORS**

Kristal Marie Lebrón, James Fairs, Pompei Bolfa, Oscar Illanes

**SP-31: THORACIC CORD COMPRESSION DUE TO EXTRAMEDULLARY HEMATOPOIESIS IN A CAT WITH CHRONIC NONREGENERATIVE ANEMIA+**

Chris R. Larson, Andrea Peda, Mary M. Christopher, Maryanna Thrall, Pompei Bolfa

**SP-32: EFFECTS OF DEVELOPMENTAL EXPOSURE TO A MIXTURE OF HYDRAULIC FRACTURING CHEMICALS ON SPERMATOGENESIS IN MICE+**

Eileen Larsen, Tim J. Evans

**SP-33: HISTOLOGIC CHARACTERIZATION OF TESTICULAR DEVELOPMENT OF APIS MELLIFERA DRONES DURING SEXUAL MATURATION+**

Colby Klein, Sophie Derveau, Ivanna Kozii, Sarah Wood, Roman Koziy, Ihor Dyvyluk, Elemir Simko

**SP-34: EFFECTS OF INNATE IMMUNE STIMULATION ON EXPERIMENTAL MANNHEIMIA HAEMOLYTICA INFECTION IN CALVES+**

Emily Isabel Kaufman, Laura Lynn Bassel, Sarah-Nicole Alycia Alsop, Kevin Stinson, Ksenia Vulikh, Laura Rosemary Siracusa, Mary Ellen Clark, Jeff L. Caswell

**SP-35: INFECTIOUS CANINE HEPATITIS LIKE LESIONS IN AN ALASKAN BLACK BEAR CUB+**

Melanie M. Iverson, Kimberlee B. Beckmen, Terry Spraker

**SP-36: ODONTOGENIC TUMORS WITH INDUCTION IN FOUR DOGS AND A COW: AMELOBLASTIC FIBROMA AND AMELOBLASTIC FIBRO-ODONTOMA**

Patrick Huang, Cynthia Bell, Kevin K. Lahmers, Leslie W. Woods, Brian G. Murphy

**SP-37: SYNOVIAL LIPOMAS AND SYNOVIAL LIPOMATOSIS IN DOGS**

Chloe Chan Goodwin, Melissa Sanchez, Fabiano Oliviera

**SP-38: SORAFENIB TREATMENT IN A NOVEL MOUSE MODEL OF ACUTE RADIATION-INDUCED DERMATITIS+**

Kerry Ann Goldin, Jessica Lawrence, Angela M. Craig, Clara Ferreira, Luke Hoepfner, Davis Seelig

**SP-39: DETECTION OF ECHINOCOCCUS GRANULOSUS AND ECHINOCOCCUS MULTILOCULARIS POSITIVE CANIDS IN EASTERN OREGON**

Kathryn Gaub, Robert Bildfell, Andree Hunkapiller, Donna Mulrooney, Julia Burco

**SP-40: DOUBLE POSITIVE (CD4+/CD8+) T-CELL LYMPHOMA IN A GUINEA PIG+**

Miranda Frohlich, Amanda Morphet, Brendan Podell, Kendra Andrie, Gary L. Mason, A Russell Moore

**SP-41: PATHOGENESIS OF CHIKUNGUNYA VIRUS IN EXPERIMENTALLY INFECTED SOUTHERN TOADS (ANAXYRUS TERRESTRIS) AND LEOPARD FROGS (LITHOBATES PIFIENS)**

Michelle Evans, Angela Bosco-Lauth, Sushan Han, Airn Hartwig, Paul Gordy, Richard Bowen

**SP-43: UTILIZING A SCANNER, CELLSENSE STANDARD IMAGE ANALYSIS SOFTWARE AND A CONVENTIONAL LIGHT MICROSCOPE TO ESTABLISH A GRADING SYSTEM FOR EQUINE ARYTENOID CHONDROSIS/CONDROPATHY**

Lusan L. DellaGrotte

**SP-44: CYTOHISTOLOGIC CORRELATION OF A LEFT BODY WALL FIBROSARCOMA IN AN ADULT DUSKY PYGMY RATTLESNAKE+**

Kara De New, Francisco Conrado, Justin Rosenberg, Sarah Beatty

**SP-45: URORECTAL SEPTUM MALFORMATION SEQUENCE IN A STANDARD BRED FOAL: A CASE STUDY AND COMPARATIVE REVIEW OF THE LITERATURE**

Samantha L. Darling, Carla Carleton, Dalen Agnew

**SP-46: BLACKLEG: A RETROSPECTIVE STUDY OF THE FREQUENCY OF CARDIAC LESIONS IN FATAL CASES OF CLOSTRIDIAL MYOSITIS+**

Caitlin Maureen Culligan, Kim Newkirk

**SP-47: VEGETATIVE ENDOCARDITIS AS A CAUSE OF SEPTIC POLYARTHRITIS IN A DOG+**

Zachary S. Croslin, James H. Meinkoth, Laura A. Nafe, Rebecca S. Tims

**SP-48: NEUTROPHIL LOCALIZATION AND INTERACTIONS IN THE SPLEEN OF A MOUSE MODEL OF SYSTEMIC LUPUS ERYTHEMATOSUS+**

*Catharine Cowan, Rujuan Dai, Michael Edwards, Bettina Heid, S. Ansar Ahmed*

**SP-49: FELINE LEUKEMIA VIRUS REPLICATES FASTER IN PANTHER CELLS+**

*Elliott S. Chiu, Melody Roelke, Sue VandeWoude*

**SP-50: SYSTEMIC BLASTOMYCOSIS IN AN ADULT FEMALE DOG**

*Mitchell T. Caudill, Katie M. Boes, Stefanie M. DeMonaco, Vanessa Wallace, D. Phillip Sponenberg*

**SP-51: HARD YELLOW LIVER DISEASE IN WEST TEXAS CATTLE+**

*Natalie J. Castell, Meredyth L. Jones, Eric R. Snook, Barbara C. Lewis, Brian F. Porter*

**SP-52: EVALUATION OF CANINE AND FELINE PLATELET PARAMETERS DURING STORAGE IN MgSO<sub>4</sub> AND EDTA ANTICOAGULANTS+**

*Michelle Kathryn Bourgeois, Shannon Dehghanpir, Kelsey Legendre, Stephen Gaunt*

**SP-53: PROTEOMIC ANALYSIS OF PRIMARY AND METASTATIC CANINE HEMANGIOSARCOMA TISSUES+**

*Miranda N. Frohlich, Erin E. Trageser, Christopher R. Olson, Tony Tullot, Valerie M. Wong, Katherine A. Blincoe*

**SP-54: SPINAL GANGLIONEUROMA IN A BEAGLE**

*Jillian M. Athey, Paula R. Giaretta, Melissa L. Blazevich, Brian F. Porter*

+Competitor for the STP Student and Resident Poster Award





## Focused Scientific Poster Session

### Poster Schedule – West Ballroom C

**Poster Setup:**

Sunday, November 5, 2017. . . . . 7:00 AM – 9:00 AM

**Poster Viewing:**

Sunday, November 5, 2017. . . . . 9:30 AM – 4:30 PM

Monday, November 6, 2017 . . . . . 9:30 AM – 1:00 PM

Tuesday, November 7, 2017 . . . . . 9:30 AM – 3:30 PM

**Poster Teardown:**

Tuesday, November 7, 2017 . . . . . 3:30 PM – 4:00 PM

Authors present at their posters at the following times:

**Clinical Pathology Posters:**

Refreshment Breaks on Sunday afternoon and Tuesday morning

**Diagnostic Pathology Posters:**

Refreshment Breaks on Sunday afternoon and Tuesday afternoon

**Experimental Disease Posters:**

Refreshment Breaks on Sunday afternoon and Tuesday afternoon

**Industrial and Toxicologic Pathology Posters:**

Refreshment Break on Sunday morning

**Natural Disease Posters:**

Refreshment Breaks on Sunday morning and Sunday afternoon

### Clinical Pathology Focused Group Poster Session

**C-2: APPLYING DATA SCIENCE PRINCIPLES AND MACHINE LEARNING TO OPTIMIZE MANUAL SLIDE REVIEW OF AUTOMATED COMPLETE BLOOD COUNTS**

*J.M. Hayes, M.R. Hayes, K.R. Friedrichs, H.A Simmons*

Keyword: Hematology

**C-4: DETECTION OF BAND NEUTROPHILS AND TOXIC CHANGE - HOW CONSISTENT ARE WE?**

*N.J. Fernandez, C.V. Gilroy, C.R. Wagg, M.F. Roy*

Keyword: Hematology

**C-5: DISSEMINATED PHAEOHYPHOMYCOSIS CAUSED BY CURVULARIA LUNATA IN A DOG WITH MASTICATORY MUSCLE MYOSITIS**

*F. Conrado,<sup>2</sup> H. Madden, R. C. Hill, S.S.K. Beatty*

Keyword: Infectious Disease

**C-6: DOES CALCULATION OF PLASMA PROTEIN: FIBRINOGEN RATIOS PROVIDE USEFUL INFORMATION IN EQUINE EMERGENCY ADMISSIONS?**

*N.J. Fernandez, M.F. Roy*

Keyword: Clinical Chemistry

**C-7: EPITHELIAL RICH THYMOMA, SPINDLOID VARIANT, WITH MULTIPLE THYMIC CYSTS IN A DOG**

*C. Attipa, H. Wong, H. Martineau, B. Szladvits*

Keyword: Cytology

**C-8: EVALUATION OF AN IN-HOUSE AUTOMATED URINE SEDIMENT ANALYZER FOR QUALITATIVE EVALUATION OF ERYTHROCYTE AND LEUKOCYTE NUMBERS**

*R. Alleman, G. Bilbrough, J. Hammond, D. McCrann, M. Celine, A. Ramanujam, J. Ogeer, D.B. DeNicola*

Keyword: Urinary System

**C-9: FELINE MYELODYSPLASTIC SYNDROME WITH EXCESS BLASTS ORIGINALLY MASQUERADING AS ACUTE LEUKEMIA**

*P.L. Deshuillers, A.P. Santos, A.L. Leisering, M.S. Varvil, C.A. Thompson, J.A. Christian, P. Rossman, C.M. Fulkerson, M.O. Childress, A.L. Vanderpool, M. Miller, J.B. Messick*

Keyword: Hematology

**C-10: IMPROVING CLONALITY TESTING FOR FELINE T-CELL LYMPHOMA**

*A. Radtanakantikanon,<sup>2,3</sup> S. Keller, P.F. Moore, N. Darzentas, W. Vernau*

Keyword: Clinical Pathology

**C-11: MICRORNA PROFILING OF LYMPH NODE ASPIRATES IN CANINE MULTICENTRIC LYMPHOMA**

*K. Craig,<sup>3</sup> G.A. Wood, S.M. Keller, A.J. Mutsaers, R.D. Wood*

Keyword: Neoplasia

**C-12: PRESUMPTIVE DIAGNOSIS OF HEPATOCELLULAR CARCINOMA WITH SPINDLOID FEATURES IN A DOG**

*K.P. Legendre<sup>2</sup>, D. Lara, R.W. Bauer, S.D. Gaunt*

Keyword: Cytology

**C-13: PROSTATIC UROTHELIAL CARCINOMA WITH METASTASIS TO THE CARPUS IN A DOG**

*A. Leisering, C. Thompson*

Keyword: Cytology

**C-14: THE DETERMINATION OF RETICULATED PLATELETS AS A NOVEL PLATELET BIOMARKER TO DIFFERENTIATE THROMBOCYTOPENIAS OF VARIOUS PATHOLOGICAL ETIOLOGIES**

*M. Winter, F. Christen*

Keyword: Hematopoietic System

**C-15: ZINC TOXICOSIS - ASSOCIATED HEMOLYTIC ANEMIA AND PANCREATIC DISEASE IN TWO DOGS**

*K.D. Foote,<sup>2</sup> C.V. Gilroy, S. Burton, B.S. Horney*

Keyword: Clinical Pathology



- 1 Competitor for the ASVCP Young Investigator Award
- 2 Competitor for the ASVCP Share the Future Travel Award

The ACVP/ASVCP abstracts will be published on the website at [www.acvp.org](http://www.acvp.org).

## Diagnostic Pathology Focused Group Poster Session

### D-1: A TONGUE OSTEOLIPOMA IN A HOWLER MONKEY (ALOUATTA PALLIATA)

*A. Berrocal, F. Alegre*  
Keyword: Wildlife

### D-2: ABERRANT EXPRESSION AND NUCLEAR TRANSLOCATION OF 14-3-3-SIGMA PROTEIN AND ABERRANT E-CADHERIN CYTOPLASMIC UPREGULATION IN A METASTATIC HEPATOCELLULAR CARCINOMA IN A VERVET MONKEY (CHLOROCEBUS PYGERYTHRUS)

*A. Suarez-Bonnet+, E. Suarez-Bonnet, R. Pittaway, S. Priestnall*  
Keyword: Liver and Pancreas

### D-3: CONCURRENT LEUKODYSTROPHY AND CEREBELLAR DEGENERATION IN A JUVENILE LABRADOR RETRIEVER

*B. Cossic, R. Cross, A. Miller*  
Keyword: Nervous System

### D-4: ASSOCIATION OF EQUINE GAMMAHERPESVIRUS-5 WITH LYMPHOHISTIOCYTIC INTERFACE DERMATITIS ON THE MUZZLE OF TWO HORSES IN THE UNITED STATES

*B. Cossic, A. Glaser, G. Duhamel, J. Peters-Kennedy*  
Keyword: Skin

### D-5: INTESTINAL HISTOPLASMOSIS IN A CAPTIVE REINDEER (RANGIFER TARANDUS), MISSOURI, USA

*J. Fortin+, M. Calcutt, D. Nagy, K. Kuroki*  
Keyword: Infectious Disease

### D-6: INTESTINAL GLANDULAR INCLUSIONS (GLANDULAR CHORISTOMA) IN THE T-SEPTAL LYMPH NODE OF A FLORIDA MANATEE (TRICHECHUS MANATUS LATIROSTRIS)

*D. Rotstein, M. de Wit, K. Rigney, G. Lonati, D. Szemer, B. Barbeau, A. Panike*  
Keyword: Wildlife

### D-7: GLOMUS TUMOR OF THE TONGUE IN A CAT

*H-C. Yen, V.F. Pang, H-W. Chang, C-R. Jeng, F-I. Wang, C-H. Liu*  
Keyword: Neoplasia

### D-8: RHODOCOCCLUS EQUI INFECTION IN GOATS: CHARACTERIZATION OF VIRULENCE PLASMID PHENOTYPE

*L. Stanahan+, Q. Plumlee, L. Bryan*  
Keyword: Infectious Disease

### D-9: MYCOTIC HYPOPHITIS DUE TO MORTIERELLA WOLFII IN AN ADULT COW

*A. Fratzke, C. Older, J. Edwards*  
Keyword: Infectious Disease

### D-10: ULTRASTRUCTURAL FEATURES OF CANINE NEUROAXONAL DYSTROPHY IN A PAPILLON

*M. Tanaka, S. Yamaguchi, H. Akiyoshi, T. Izawa, J. Yamate, M. Kuwamura*  
Keyword: Nervous System

### D-11: ORAL PAPILLARY SQUAMOUS CELL CARCINOMA IN A 4-MONTH-OLD PUPPY

*W. Won+, T. Yang, A. Olivier*  
Keyword: Neoplasia

### D-12: SPONTANEOUS TERATOMA IN A WISTAR RAT

*A. Morales, M. Moya, Y. Moreno, E. Suniaga*  
Keyword: Neoplasia

### D-13: HISTOLOGICAL AND IMMUNOHISTOCHEMICAL FEATURES OF SMALL INTESTINAL LYMPHATIC HYPOPLASIA IN DOGS PRESENTED WITH PROTEIN-LOSING ENTEROPATHY

*J. Malatos+, G. Duhamel*  
Keyword: Alimentary

### D-14: FIBROUS OSTEODYSTROPHY AND WIDESPREAD METASTATIC MINERALIZATION IN A GRAY MOUSE LEMUR (MICROCEBUS MURINUS)

*K. Casey, C. Karanewsky, J. Pendleton, M. Krasnow, M. Albertelli*  
Keyword: Primates

### D-15: A NEW TYPE TAUOPATHY IN AN OLD CAT

*M. Yamazaki+, N. Nishiki, K. Nishida, F. Kametani, N. Arai, K. Shiota, Y. Une*  
Keyword: Nervous System

### D-16: CONCURRENT MULTIPLE MYELOMA AND ACUTE MYELOID LEUKEMIA IN A CAT

*E. Borkowski+, K. Hooi, D. Bienzle, J. Beeler-Marfisi*  
Keyword: Hematopoietic System

### D-17: AN ATYPICAL VACCINE-INDUCED CANINE DISTEMPER IN A LITTER OF GERMAN QUAIL DOGS

*M. Anttila, V. Karkamo, R. Holopainen, T. Nokireki, K. Vainio-Siukola*  
Keyword: Infectious Disease

### D-18: 360-TORSION OF THE GALL BLADDER QUADRATE LIVER LOBE IN A GERMAN SHEPHERD DOG

*R. Fraser+, L. Cousto, M. Jensen, A. zur Linden, B. Plattner*  
Keyword: Liver and Pancreas

### D-19: CD117 (KIT PROTEIN) EXPRESSION IN CANINE LYMPHOMA

*I. Hawkins, M. Iha, M. Woldemeskel, L. Whittington*  
Keyword: Neoplasia

### D-20: HISTOLOGIC EVALUATION OF PITUITARY ADENOMAS IN CANINE TRANSPHENOIDAL HYPOPHYSECTOMY SPECIMENS

*M. Miller, T. Owen, D. Bruyette, C. Scott-Moncrieff, J. Ramos-Vara, A. Chen-Allen, L. Martin, A. Vanderpool, D. DuSold*  
Keyword: Endocrine

**D-21: XANTHINE NEPHROLITHIASIS IN A GOAT**

*K. Vail+, T. Likavec, P. Gibbons, R. Rech*

Keyword: Urinary System

**D-22: METASTATIC DISEASE IN A DOG WITH A WELL-DIFFERENTIATED PERIANAL GLAND TUMOR**

*M. McCourt, G. Levine, M. Breshears, J. Meinkoth*

Keyword: Skin

**D-23: OSSIFYING FIBROMA ARISING FROM THE SPHENOID BONE IN AN ACUTELY BLIND HORSE**

*M. Friedemann, R. Madrigal, J. Vallone, L. Vallone, T.*

*Laughrey, M. Coleman, R. Rech*

Keyword: Bone and Joint

**D-24: A CASE OF SUSPECT PALLYTOXICOSIS (PALLYTHOA TOXICA POISONING) IN A HOUSEHOLD INVOLVING HUMANS AND A DOG**

*D. Rotstein, A. Ayala, J. Jones, J. Guag, O. Ceric, S. Nemser, R. Reimschuessel*

Keyword: Biotoxicosis

**D-25: ECTOPIC THYROID CARCINOMA AND THYROID ADENOMA IN A GUINEA PIG (CAVIA PORCELLUS)**

*H. Kondo, I. Koizumi, N. Yamamoto, H. Shibuya*

Keyword: Neoplasia

**D-26: IMMUNOHISTOCHEMICAL CHARACTERIZATION OF INFLAMMATION IN GLIOMATOSIS CEREBRI IN FIVE DOGS**

*K. Alloway, K. Linder, D. Tokarz*

Keyword: Nervous System

**D-27: SUBCUTANEOUS RHABDOMYOSARCOMA IN AN OLD PET RABBIT**

*C. Park+, C. Nakajima, K. Kimitsuki, N. Shiwa, Y. Tsuchida*

Keyword: Rabbit

**D-28: RUPTURE OF A CLINICALLY SILENT MALIGNANT PHEOCHROMOCYTOMA COMPLICATED BY CARDIORESPIRATORY FAILURE IN A DOG DURING THE ANESTHESIA**

*C-S. Hsueh+, C-R. Jeng, VF. Pang, H-W. Chang, F-I. Wang*

Keyword: Neoplasia

**D-29: CD204-EXPRESSING TUMOR ASSOCIATED MACROPHAGES ARE ASSOCIATED WITH MALIGNANT, HIGH-GRADE, AND HORMONE RECEPTOR-NEGATIVE CANINE MAMMARY GLAND TUMORS**

*B-J. Seung+, S-H. Cho, S-H Kim, J-H. Sur*

Keyword: Neoplasia

**D-30: MICROPHTHALMIA WITH MULTIPLE CONGENITAL OCULAR DEFECTS IN PORTUGUESE WATER DOGS: 17 CASES**

*M. Tse+, G. Shaw, A. Miller*

Keyword: Eye and Ear

**D-31: EVALUATION OF OPTICAL COHERENCE TOMOGRAPHY FOR SURGICAL MARGIN ASSESSMENT IN RESECTED CANINE SOFT TISSUE SARCOMAS**

*J. Samuelson+, L. Selmic, J. Reagan, K. Mesa, E. Driskell, J. Li,*

*M. Marjanovic, S. Boppart*

Keyword: Neoplasia

**D-32: PREECLAMPSIA IN A RHESUS MACAQUE (MACACA MULATTA) WITH FETAL INTRAUTERINE GROWTH RESTRICTION**

*L. Colgin, K. Prongay, A. Lewis*

Keyword: Reproductive System

**D-33: POTENTIAL HAZARD TO HUMAN AND ANIMAL HEALTH IN EGYPT: II. DISEASES OF EGYPTIAN CROW (CORVUX CORNIX)**

*S. Abd El-Rahman, M. Afify, A. Ali, D. Hamza, A. Zanaty*

Keyword: Wildlife

**D-34: CHARACTERIZATION OF A SPONTANEOUS ASTROCYTOMA IN AN AFRICAN HEDGEHOG (ATELERIX ALBIVENTRIS)**

*M. Roy, A. Armien*

Keyword: Nervous System

**D-35: DEVELOPMENT OF AN IMMUNOHISTOCHEMISTRY PANEL IN DIAGNOSING CANINE PLEURAL DISEASES**

*K. Andrie+, S. Pannone, K. Santangelo*

Keyword: Respiratory System

**D-36: ILEOCECAL INTUSSUSCEPTION WITH CONCURRENT CHRONIC LYMPHOCYTIC LEUKEMIA IN A DACHSHUND DOG**

*C-H. Chen, H-W. Chang, F. Pang, C-H Wan, C-R Jeng*

Keyword: Alimentary

**D-37: LEISHMANIA SPP. INFECTION IN FIVE HORSES FROM COSTA RICA**

*A. Berrocal, M. Garcia-Ortega, J. Salguero*

Keyword: Skin

**D-38: FIRST CONFIRMED MUCOPOLYSACCHARIDOSIS TYPE VII IN A 15-WEEK-OLD BOSTON TERRIER**

*J. Mason+, G. Duhamel*

Keyword: Bone and Joint

**D-39: A CASE OF FELINE PROGRESSIVE HISTIOCYTOSIS WITH PULMONARY METASTASIS**

*M. Zinn+, K. Koruki*

Keyword: Neoplasia

**D-40: MULTIPLE OSTEOCHONDROMATOSIS AFFECTING BOTH LONG AND FLAT BONES IN A FREE-RANGING WHITE-TAILED DEER**

*M. Dalton+, H. Fenton, M. Ruder, J. Crum, E. Uhl*

Keyword: Wildlife

**D-41: DISSEMINATED HISTOPLASMOSIS IN AN ADULT CAT**

*J-H. Yin, J.S. Fortin*

Keyword: Infectious Disease

**D-42: OSTEOGENESIS AND DENTI NOGENESIS IMPERFECTA IN A 4-MONTH-OLD ENGLISH MASTIFF**

*R. Gold, E. Edwards*

Keyword: Bone and Joint

**D-43: HISTOPATHOLOGIC AND ELECTRON MICROSCOPIC CHARACTERIZATION OF UVEITIS PRESENT IN EQUINE RECURRENT UVEITIS**

*K. Carmichael, S. Kirejczyk, S. Pryor, K. Myrna*

Keyword: Eye and Ear

**D-44: INFILTRATIVE LYMPHOCYTES SUBPOPULATIONS AND MAST CELLS IN CANINE INFLAMMATORY BOWEL DISEASE**

*A. Espinoza, C. Gonzalez, I. Contreras*  
 Keyword: Immune System

**D-45: EQUINE MULTINODULAR PULMONARY FIBROSIS IN A THOROUGHbred HORSE IN JAPAN**

*A. Ochi, K. Tsujimura, T. Ueno, M. Sekiguchi, Y. Katayama*  
 Keyword: Infectious Disease

**D-46: ERYTHROLEUKEMIA IN A RETROVIRUS-NEGATIVE CAT: A NECROPSY CASE**

*S. Suzuki, N. Ogino, I. Mitsui, H. Ito, T. Kariya*  
 Keyword: Neoplasia

**D-47: CUTANEOUS SQUAMOUS CELL CARCINOMA WITH VISCERAL METASTASES IN A RAINBOW BOA (EPICRATES CENCHRIA)**

*R. Teixeira-Neto, M. Vieson, M. Allender*  
 Keyword: Wildlife

**D-48: DUCTAL PLATE MALFORMATIONS IN CAPTIVE SNAKES**

*O. Swartley+, B. Troan, J. Cullen*  
 Keyword: Liver and Pancreas

**D-49: MYENTERIC GANGLIONEURITIS AND GENERALIZED LYMPHOPLASMOCYTIC MYOCARDITIS IN A KEEL-BILLED TOUCAN (RAMPHASTOS SULFURATUS): FIRST CASE REPORT**

*A. Reyes-Matute, J-A. Mercado-Saldana, V. Hernazes-Urraca, V. Avila-Reyes, L-M. Vargas-Sotos*  
 Keyword: Wildlife

**D-50: CLINICAL FEATURES AND PATHOLOGY OF ATYPICAL CANINE PERIPHERAL ODONTOGENIC FIBROMAS**

*B. Curtis, F.P. Schaffer, C. Frank*  
 Keyword: Neoplasia

**D-51: SYSTEMIC ASPERGILLOSIS MANIFESTING AS NEUROLOGIC DISEASE IN AN EQUINE**

*A. Anderson+, T. Watanabe, R. Bauer*  
 Keyword: Infectious Disease

**D-52: INVESTIGATING THE ASSOCIATION OF BARTONELLA SPP. IN CANINE NODULAR PYOGRANULOMATOUS PANNICULITIS**

*J. Malatos+, K. Kelly, J. Peters-Kennedy*  
 Keyword: Skin

**D-54: SAVANNAH MONITOR (VARANUS EXANTHEMATICUS) WITH PANCREATIC ENDOCRINE CARCINOMA, HEPATIC ADENOCARCINOMA, AND MULTIPLE METABOLIC DISORDERS**

*E. Bidwell, A. Durkes*  
 Keyword: Zoologic

**D-55: CONGENITAL ANOMALIES IN DOMESTIC ANIMALS IN GRENADA, WEST INDIES: A RETROSPECTIVE STUDY OF 18 CASES (2001-2016)**

*A. Chikweto, C. De Allie, K. Tiwari, R. Sharma, M. Bhaiyat*  
 Keyword: General Topic

**D-56: INFLAMMATORY EYE LESIONS IN DOGS WITH LEISHMANIASIS**

*G. Machado, L. Bregnano, V. Lima, T. Watanabe, I. Langohr*  
 Keyword: Eye and Ear

**D-57: OVER-EXPRESSION OF RAD51 CORRELATES WITH MALIGNANCY OF CANINE INTESTINAL NEOPLASIA**

*S.H. Cho+, B.J. Seung, S.H. Kim, J.H. Sur*  
 Keyword: Alimentary

**D-58: REDUCED EXPRESSION OF P21 IN CANINE HEPATOCELLULAR CARCINOMA**

*S.H. Kim, B.J. Seung, S.H. Cho, J.H. Sur*  
 Keyword: Liver and Pancreas

**D-59: DERMATITIS WITH ASSOCIATED SARCOPTES SCABEI, CORYNEBACTERIUM SP., AND STAPHYLOCOCCUS HYICUS INFECTION IN A MINIATURE POT-BELLIED PIG (SUS SCROFA DOMESTICUS)**

*E. Kieran, M. Dark, H. Walden, E. Nelson*  
 Keyword: Infectious Disease

**D-60: GLYCOGEN BRANCHING ENZYME DEFICIENCY IN A QUARTER HORSE FOAL (EQUUS CABALLUS)**

*E. Kieran+, J. Abbott*  
 Keyword: Cardiovascular

**D-61: AMEBOIC ENCEPHALITIS IN A CHIMPANZEE**

*A. Kumar+, D. Sledge*  
 Keyword: Nervous System

**D-62: FIRST DESCRIPTION OF MALIGNANT GASTROINTESTINAL STROMAL TUMOR WITH TRANSPLANTATION METASTASIS IN A HORSE**

*T. Negrao Watanabe+, F. Andrews, R. Bauer*  
 Keyword: Neoplasia

**D-63: PRIMARY CEREBRAL HISTIOCYTIC SARCOMA IN A DOG**

*L. Bedient, J. Ramsay*  
 Keyword: Nervous System

**D-64: EXTRAGONADAL INTRACOELOMIC TERATOMA IN A COCKATIEL**

*F. Sebastian+, S. Newman, M. Jones*  
 Keyword: Avian

**D-65: CLINICOPATHOLOGICAL FEATURES OF SALMONELLA DUBLIN INFECTION IN ONTARIO CATTLE**

*A. Brooks, M. Hazlett, J. Shapiro, M. Spinato, M. Stalker, J. DeLay, B. McEwen, A. Vince, D. Slavic*  
 Keyword: Infectious Disease

**D-66: LYMPHOID NEOPLASIA IN AN ATLANTIC STINGRAY (DASYATIS SABINA)**

*R. McManamon, A. Camus, T. Zachariah*  
 Keyword: Hematopoietic System

**D-67: CEREBRAL PERIVASCULAR WALL TUMOR IN A DOG**

*A. Stern, I. Sprandel, M. Shaevitz*  
 Keyword: Neoplasia

**D-68: IMMUNOHISTOCHEMICAL DIAGNOSIS OF ENTEROPATHIES CAUSED BY CORONAVIRUS AND ROTAVIRUS IN CALVES**

*A. Perez-Guiot, C-G. Salas-Garrido, M-A. Bedolla-Alva*

Keyword: Alimentary

**D-69: HISTOPATHOLOGY AND IMMUNOHISTOCHEMISTRY OF PROLIFERATIVE LESIONS IN THE UTERUS OF AFRICAN HEDGEHOGS (ATELERIX ALBIVENTRIS).**

*L-M. Vargas-Soto, A. Mendez-Bernal, A. Reyes-Matute, E. Morales-Salinas*

Keyword: Neoplasia

**D-70: Withdrawn**

**D-71: POORLY DIFFERENTIATED FIBROSARCOMA IN A CAT WITH SYSTEMIC METASTASIS**

*M. Chavez-Rodriguez, A. Mendez-Bernal, L. Romero-Romero, M. Cano-Saldana, H. Corona-Monjaras*

Keyword: Neoplasia

**D-72: SUBCUTICULAR PARAVERTEBRAL CALCINOSIS CIRCUMSCRIPTA IN THE NECK OF A CAPTIVE AFRICAN SPURRED TORTOISE (GEOCHELONE SULCATA)**

*H. Snyman, M. Prasad, B. Burton*

Keyword: Reptile

**D-73: COMPARATIVE ANALYSIS OF HISTOPATHOLOGICAL INDEX OF LESION IN LIVER, GILL AND KIDNEY OF TILAPIAS, SAMPLED FROM THE BILLINGS WATER RESERVOIR IN SÃO PAULO STATE, BRAZIL**

*S. Pulecio Samtos+, J. Grisi Filho, I. Gomes, A. Camachos Lopez, V. Paiva Silva, B. Held, M. Lamparelli, G. Quinaglia, L. de Sa.*

Keyword: Environmental Pathology

**D-74: DIFFUSE-TYPE GASTRIC MUCINOUS ADENOCARCINOMA IN A CALIFORNIA KING SNAKE**

*C-S. Hsueh, C-R. Jeng, V.F. Fei, F-I. Wang, H-W. Chang.*

Keyword: Wildlife

**D-76: CAROLI SYNDROME IN A 6-YEAR-OLD ROTTWEILER**

*N. Helgert+, M. Sula*

Keyword: Liver and Pancreas

**D-77: MYELOID SARCOMA (MS) PRESENTING AS A PARAOVARIAN MASS IN A JUVENILE DOG**

*J. Bailey+, J. Koehler*

Keyword: Neoplasia

**D-78: PRIMARY GASTROINTESTINAL FOLLICULAR LYMPHOMA IN THREE DOGS**

*M. Richardson+, T. Thaiwong, M. Kiupel*

Keyword: Alimentary

**D-79: FEMALE REPRODUCTIVE PATHOLOGY IN GERIATRIC FALLOW DEER (DAMA DAMA)**

*C. Monahan+, W. Shellabarger, K. Thompson, K. Suedmeyer, D. Agnew*

Keyword: Reproductive System

**D-80: INTRAOCULAR MALIGNANT TUMOR WITH SECONDARY FUSARIUM INFECTION IN A MARINE FISH DIAGRAMMA PICTUM**

*W. Li, C. Lo*

Keyword: Neoplasia

**D-81: NASAL ADENOCARCINOMA WITH INTESTINAL DIFFERENTIATION IN A BEAGLE**

*C. Kao+, F. Pang, H. Chang, C. Jeng, F. Wang, C. Liu*

Keyword: Neoplasia

**D-82: CO-INFECTION OF MYCOBACTERIUM MARINUM AND M. FORTUITUM IN A CAPTIVE ADULT DIAMONDBACK WATER SNAKE (NERODIA RHOMBIFER) CAUSING DISSEMINATED MYCOBACTERIOSIS WITH AN ACUTE CUTANEOUS MANIFESTATION**

*T. Negrao Watanabe+, E. Sasaki, G. Pirie, N. Wakamatsu*

Keyword: Infectious Disease

**D-83: SYSTEMIC AMYLOIDOSIS IN A CAPTIVE POPULATION OF PRONGHORN ANTELOPE (ANTILOCAPRA AMERICANA)**

*M. Martinez+, K. Seeley, D. Zimmerman, P. Bapodra, R. Cianciolo*

Keyword: Wildlife

**D-85: LARGE WHALE UNUSUAL MORTALITY EVENT, EASTERN NORTH PACIFIC**

*S. Raverty, P. Cottrell, K. Burek Huntington, H. Snyman, K. Savage*

Keyword: Wildlife

**D-86: HISTOPATHOLOGIC CHARACTERIZATION OF FELINE BOWENOID IN SITU CARCINOMA-A CASE SERIES**

*K. Eraham+, J. Ward*

Keyword: Neoplasia

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**Experimental Disease Focused Group  
Poster Session**

**E-1: ONTOGENY OF TOLL-LIKE 3 AND 4 RECEPTOR EXPRESSION AND WHITE MATTER DEVELOPMENT IN THE FERRET BRAIN**

*J. Snyder, P. Parikh, T. Wood, K. Corry, M. Larmore, B. Johnson, D. Moralejo and S. Juul*

Keyword: Nervous System

**E-2: PATHOLOGICAL LESIONS IN THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL TISSUES OF MICE WITH STREET RABIES VIRUS (1088 STRAIN)**

*K. Kimitsuki, K. Yamada, N. Shiwa, S. Inoue, A. Nishizono and C. Park*

Keyword: Nervous System

**E-3: LATENT TOXOPLASMA GONDII INFECTION PROMOTES BRAIN ATROPHY IN WILD-TYPE AND HUNTINGTON'S DISEASE MICE**

*D. Donley, T. Jenkins, M. Realing, J. Gigley and J. Fox*  
 Keyword: Infectious Disease

**E-4: EARLY EVENTS OF BLUETONGUE VIRUS INFECTION IN THE SKIN OF EXPERIMENTALLY-INFECTED SHEEP AND GOATS**

*V. Gamino-Rodriguez, E. Melzi, J. Leach, M. Caporale, P. Johnston and M. Palmarini*  
 Keyword: Infectious Disease

**E-5: DIVERSITY OUTBRED MICE IDENTIFY NOVEL GENETIC LOCI ASSOCIATED WITH TUBERCULOSIS**

*G. Beamer, D. Gatti, C. Abejion and I. Kramnik*  
 Keyword: Infectious Disease

**E-6: DIVERSE CAVITY TYPES AND EVIDENCE THAT NECROSIS-INDUCED TEARS ARE THE MECHANISTIC DRIVER OF CAVITATION DURING TUBERCULOSIS**

*E. Ihms+, M. Urbanowski and W. Bishai*  
 Keyword: Infectious Disease

**E-7: BOVINE HERPESVIRUS-4 AS A NOVEL DELIVERY PLATFORM FOR THEILERIA PARVA ANTIGENS IN CATTLE**

*L. Williams+, L. Fry, G. Tebaldi and G. Donofrio*  
 Keyword: Infectious Disease

**E-8: HISTOPATHOLOGIC FEATURES OF AN INDWELLING CARDIAC CATHETERIZATION PROCEDURE IN YORKSHIRE CROSS BARROWS**

*D. Rotstein, O. Chiesa, R. Gonzales, A. Lewandowski, A. Kouneski and M. Myers*  
 Keyword: Cardiovascular

**E-9: PHENOL-RICH PEQUI FRUIT EXTRACT REDUCES OXIDATIVE INJURY IN RATS FED HYPERCALORIC DIET**

*F. Mendes, V. Cruz, L. Nepomuceno, K.M. Braga and E. Araujo*  
 Keyword: Cardiovascular

**E-10: STREPTOCOCCUS PNEUMONIAE INFECTION IN RESPIRATORY SYNCYTIAL VIRUS INFECTED NEONATAL LAMBS**

*S. Alnajjar, P. Sitthicharoenchai, J. Gallup, M. Ackermann and D. Verhoeven*  
 Keyword: Respiratory System

**E-11: BOVINE RESPIRATORY EXPLANTS AS A TOOL TO STUDY CONTAGIOUS BOVINE PLEUROPNEUMONIA**

*G. Di Teodoro, G. Marruchella, A.R. D'Angelo, A. Di Provvido, G. Orsini, G. Ronchi and M. Scacchia*  
 Keyword: Respiratory System

**E-12: PULMONARY FUNCTION IN COTTON RATS AFTER RSV INFECTION**

*M. Martinez+<sup>#</sup>, O. Harder, L. Rosas, I. Davis and S. Niewiesk*  
 Keyword: Respiratory System

**E-13: EQUINE PLATELET LYSATE AFFECTS THE IMMUNOMODULATORY CAPACITY OF MESENCHYMAL STEM CELLS**

*M. Naskou, S. Sumner, I. Copland, J. Galipeau and J. Peroni*  
 Keyword: Immune System

**E-14: REACTIVE OXYGEN SPECIES IN THE PATHOGENESIS OF CONTAGIOUS BOVINE PLEUROPNEUMONIA**

*G. Di Teodoro, F. Mosca, G. Marruchella, A. Di Provvido, P. Tiscar and M. Scacchia*  
 Keyword: Immune System

**E-15: CHRONIC TRICHLOROETHYLENE AND ARSENIC EXPOSED MDR-NULL MICE DEVELOP RENAL DAMAGE BUT NO TUMORS**

*A. Perry+ and D. Threadgill*  
 Keyword: Urinary System

**E-16: RENAL INVOLVEMENT IN CONTAGIOUS BOVINE PLEUROPNEUMONIA: PATHOLOGICAL AND IMMUNOHISTOCHEMICAL FINDINGS**

*G. Di Teodoro, G. Marruchella, A.R. D'Angelo, A. Di Provvido, G. Muuka and M. Scacchia*  
 Keyword: Urinary System

**E-17: CYP26A1 AND CYP26B1 DELETION IN MICE CAUSES SEVERE MULTISYSTEMIC PATHOLOGY**

*J. Snyder, C. Hogarth and N. Isoherranen*  
 Keyword: Genetically Engineered Mice

**E-18: IN VITRO VALIDATION OF THE HIPPO PATHWAY AS A PHARMACOLOGICAL TARGET FOR CANINE MAMMARY GLAND TUMORS**

*M. Paquet, S. Guillemette, C. Rico, P. Godin and D. Boerboom*  
 Keyword: Mammary

**E-19: WIDESPREAD SEVERE MYODEGENERATION IN A HOMOZYGOUS FEMALE DOG WITH DYSTROPHIN DEFICIENCY**

*J. Fortin+, C. Hakim, S. Korte, G. Johnson and D. Duan*  
 Keyword: Muscle

**E-20: CHARACTERIZATION OF AUSTRALIAN LABRADOODLE DYSTROPHINOPATHY**

*S. Shrader+, S. Jung and B. Smith*  
 Keyword: Muscle

**E-21: EVALUATION OF EFFICACY OF DUAL PI3K/AKT/MTOR PATHWAY INHIBITION IN CANINE OSTEOSARCOMA CELLS IN VITRO AND XENOGRFT MOUSE MODEL**

*T. Meuten+ and D. Thamm*  
 Keyword: Neoplasia

**E-22: ECTONUCLEOTIDE PYROPHOSPHATASE/PHOSPHODIESTERASE 1 IS A DRIVER OF METASTASIS IN A SUBSET OF HUMAN OSTEOSARCOMA**

*A. Koehne, L. Sayles, A. Lee, S. Leung, A. Spillinger and A. Sweet-Cordero*  
 Keyword: Neoplasia



**E-23: A SYNGENEIC IMMUNOCOMPETENT DOUBLE-LABELED B16F10 MURINE MELANOMA MODEL FOR EFFICACY AND SAFETY TESTING OF ONCOLYTIC VIROTHERAPY USING THE HSV-1 VC2 LIVE-ATTENUATED VACCINE STRAIN**

*N. Fowlkes<sup>+</sup>, D. Townsend, B. Stanfield, P. Rider, V. Chouljenko, R. Nabi, R. Subramanian, M. Mathis and K. Kousoulas*

Keyword: Neoplasia

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**Industrial and Toxicologic Pathology  
Focused Group Poster Session**

**T-1: REGIONAL RENAL TUBULAR EPITHELIAL HYPERTROPHY FOLLOWING ORAL ADMINISTRATION OF A SMALL MOLECULE RECEPTOR INHIBITOR**

*M. O'Brien, K. Szabo*

Keyword: Urinary System

**T-2: NOVEL OFF-TARGET EFFECT ON URINE CONCENTRATING ABILITY IN AN EXPLORATORY RAT TOXICITY STUDY**

*B. LeRoy, M. Foley, M. Logan*

Keyword: Urinary System

**T-3: AUTOFLUORESCENCE FOR DIGITAL HISTOLOGY AND REFINED LIPOFUSCIN ANALYSIS IN AGING AND DIET RESTRICTION OR SUPPLEMENTATION STUDIES**

*R. Kuiper, D. Salvatori, M. Dolle, E. Reiling, H. van Steeg, J. Hoeijmakers*

Keyword: Multispectral Imaging

**T-5: VASOACTIVE EFFECTS OF ACUTE ERGOT EXPOSURE IN SHEEP**

*R. Yonpiam, J. Gobbett, A. Jadhav, K. Desai, B. Blakley, A. Al-Dissi*

Keyword: Toxicologic Pathology

**T-6: IN SEARCH OF THE MOST SUITABLE RODENT MODEL AND INDICATORS OF TOPICAL GLUCOCORTICOID-INDUCED TOXICITY**

*A. Blanco, M Calbet, M. Pont, N. Godessart, A. Gavalda*

Keyword: Toxicologic Pathology

**T-7: INSIGHTS INTO THE EFFECT OF SUBTLE CHEMICAL MODIFICATION OF ARYL CHLOROETHYLUREA (CEU) AS SMALL MOLECULES TARGETING EITHER B-TUBULIN OR PROHIBITIN AND THIOREDOXIN-1**

*J.S. Fortin<sup>+</sup>, A. Patenaude, B. Bouchon, R. C.-Gaudreault*

Keyword: Neoplasia

**T-8: COMPARATIVE CHRONIC TOXICITY OF THREE NEONICOTINOIDS ON NEW ZEALAND PACKAGED HONEY BEES**

*S. Wood<sup>+</sup>, I. Kozii, R. Koziy, C. Janse van Rensburg, J. Morris, I. Moshynskyy, S. Derveau, G. Wobeser, T. Epp, K. Liber, E. Simko*

Keyword: Toxicologic Pathology

**T-10: TOXIC ACUTE RENAL INJURY IN CATS: HISTOLOGIC LESIONS AND BIOMARKERS**

*L. Broughton-Neiswanger<sup>+</sup>, N. Villarino, P. Pineiro*

Keyword: Toxicologic Pathology

**T-11: INCREASED GLIAL FIBRILLARY ACIDIC PROTEIN IMMUNOHISTOCHEMICAL STAINING OF THE BASAL GANGLIA IN THE BRAIN OF RHESUS MONKEYS TREATED WITH THE D2-5HT2 RECEPTOR ANTAGONIST, RISPERIDONE**

*S. Kuruvilla, R. Briscoe, G. Fernandez, F. Poinant, J. Marr*

Keyword: Nervous System

**T-12: INVESTIGATION OF KIDNEY FINDINGS IN A 4-WEEK CYNOMOLGUS MONKEY SAFETY STUDY**

*K. Colman, S. Tannehill-Gregg, J. Moggs, L. Li*

Keyword: Urinary System

**T-13: COMPREHENSIVE HISTOLOGIC STUDY OF THE REPRODUCTIVE SYSTEM OF HONEY BEE QUEEN**

*I. Kozii<sup>+</sup>, S. Wood, R. Koxiy, C. Van Rensburg, J. Morris, S. Derveau, I. Moshynskyy, M. Ferrari, A. Al-Dissi and E. Simko*

Keyword: Reproductive System

**T-14: CHARACTERIZATION OF REPRODUCTIVE TOXICITY OF IN UTERO EXPOSURE TO POLYCYCLIC AROMATIC HYDROCARBONS IN WILD-TYPE AND CYPB1 NULL MICE**

*C. Dores<sup>+</sup>, E. Madeen, T. Harper, L. Shorey, F. Gonzalez, E. Ho, R. Dashwood, D. Williams, U. Luderer and C.V. Lohr*

Keyword: Reproductive System

**T-15: VACCINATION OF MICE WITH VC2, A NOVEL MUTANT STRAIN OF HERPES SIMPLEX VIRUS 1, PROTECTS AGAINST OCULAR HERPESVIRAL INFECTION**

*S. Naidu<sup>+</sup>, B. Stanfield, N. Jambunathan, N. Cheemaria, V. Chouljenko, R. Carter, I. Langohr, K. Kousoulas*

Keyword: Immune System

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**Natural Disease Focused Group Poster Session**

**N-1: NOCARDIA PAUCIVORANS ASSOCIATED NECROTISING PNEUMONIA IN A DISPLAY BELUGA**

*S. Raverty, M. Haulena, E. Zabek, H. Snyman*

Keyword: Wildlife

**N-2: CHARACTERIZATION OF A NOVEL MYOPATHY IN DOGS**

*H. Hunt, N. Cave, B. Gartrell, J. Petersen, W. Roe*  
 Keyword: Muscle

**N-3: MALIGNANT CATARRHAL FEVER ASSOCIATED WITH A NOVEL GAMMAHERPESVIRUS IN RED-FLANKED DUKERS**

*F. Carvalho, J. Moore, K. Jackson, A. Nyaoke, L. Naples, P. Pesavento*  
 Keyword: Infectious Disease

**N-4: INTRA-OSSEUS EPIDERMAL INCLUSION CYSTS IN TWO BROWN KIWI (APTERYX MANTELLI)**

*S. Hunter*  
 Keyword: Wildlife

**N-6: EFFECTS OF INNATE IMMUNE STIMULATION ON NATURALLY OCCURRING RESPIRATORY DISEASE IN BEEF CALVES**

*L. Bassel, J. Hewson, S. Sharif, A. Macdonald, C. Co, L. Siracusa, K. Vulikh, J. Caswell*  
 Keyword: Respiratory System

**N-7: HISTOLOGIC CHARACTERISTICS OF CUTANEOUS DERMATOPHYTOSIS IN PERSIAN CATS**

*A. Myers+, J. Mansell, A. Rodrigues Hoffmann*  
 Keyword: Infectious Disease

**N-8: DIAGNOSTIC UTILITY OF CYTOKERATIN 5 FOR THE IDENTIFICATION OF PROLIFERATIVE INFLAMMATORY ATROPHY IN CANINE PROSTATES**

*M. Story, F. Lean, S. Akter, V. Grieco, A. De Marzo, C. Palmieri*  
 Keyword: Reproductive System

**N-9: OUTBREAK OF CANINE PARVOVIRUS TYPE 2B AND CLOSTRIDIUM DIFFICILE ENTEROTOXEMIA INFECTION IN ASIAN SMALL-CLAWED OTTERS (AMBLONYX CINEREUS)**

*T.T. Negaro-Watanabe+, E. Dubovi, D. Evans, I. Langohr, F. Del Piero*  
 Keyword: Infectious Disease

**N-10: ENDOMETRIAL ADENOCARCINOMA IN TWO ASIAN ELEPHANTS (ELEPHAS MAXIMUS)**

*J. Wong, A. Pessier*  
 Keyword: Wildlife

**N-11: PROTEIN BIOMARKERS IN SERUM AND URINE FOR DIAGNOSIS OF CANINE HIP DYSPLASIA**

*C. Bozynski, C. Ahner, A. Stoker, E. Leary, J. Cook*  
 Keyword: Bone and Joint

**N-12: NEOPLASIA IN STRANDED CETACEANS FROM NORTH CAROLINA AND VIRGINIA, 2011-2017: D. Rotstein, W. McLellan, C. Harms, V. Thayer, S. Barco, K. Volker, A. Costidis, D. Pabst**

Keyword: Wildlife

**N-13: IDIOPATHIC HYPERTROPHIC PACHYMENINGITIS IN A DOG**

*T. Carlson, A. Davé, E. Olson*  
 Keyword: Nervous System

**N-14: SARCOCYSTIS SP. ASSOCIATED POLYMYOSITIS IN STRANDED CALIFORNIA SEA LIONS (ZALOPHUS CALIFORNIANUS)**

*M. Seguel+ K. Colegrove, C. Field, E. Howerth, P. Duignan*  
 Keyword: Wildlife

**N-16: PCR PREVALENCE AND RISK FACTOR ANALYSIS OF COXIELLA BURNETII IN CATS FROM CYPRUS**

*C. Attipa+, C. Helps, T. Chisnall, S. Tasker, M. Eisler*  
 Keyword: Infectious Disease

**N-17: PLACENTA ACCRETA IN THREE AFRICAN GREEN MONKEYS (CHLOROCEBUS AETHIOPS SABAEUS)**

*C. Labriola, R. Andrews, G. Balamayooran, A. Hutchison, D. Caudell, M. Jorgensen, J. Cline, N. Kock*  
 Keyword: Primates

**N-18: OVARIAN ADENOCARCINOMA IN CAPTIVE NORTH AMERICAN JAGUARS (PANTHERA ONCA): INVESTIGATING THE GENETIC MECHANISMS OF TUMORIGENESIS**

*S. Corner, M. Parys, A. Moresco, V. Yuzbasiyan-Gurkan, D. Agnew*  
 Keyword: Wildlife

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*S. Raverty, B. Grahm, P. Cottrell, J. Gaydos*  
 Keyword: Wildlife

**N-21: A case of chronic wasting disease in captive red deer (Cervus elaphus) in South Korea, 2016**

*I-S. Roh, H-J. Kim, T-Y. Suh, H-E. Kang, H-J. Sohn*  
 Keyword: Infectious Disease

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*W-T. Li, C-H. Chen, V. Pang, C-R. Jeng, C-H. Liu, F-I. Wang, Y-S. Lai, H-W. Chang*  
 Keyword: Wildlife

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*M. Eren+, J. Hwang, C.D. Souza*  
 Keyword: Immune System

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*Y. Ueda, J. Stern, R. Tarara, C. Cruzen, S. Kanthaswamy, M. Raveendran, R. Harris, J. Rodgers, J. Roberts, J. Reader*  
 Keyword: Primates

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*K. Polemi, A. MacNeill*  
 Keyword: Neoplasia

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*E. Fish, G. Martinez-Romero, P. DelInnocentes, J. Koehler, N. Prasad, K. Irizarry, A. Smith, R. Bird*  
 Keyword: Mammary

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*L. Setyo, M. Sabater, A. Young, B. Rickman*  
 Keyword: Wildlife

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*I. Biton, O. Brenner, A. Harmelin*  
 Keyword: Bone and Joint

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*J. Gary, C. Ferrecchia, M. Garner, A. Denison, J. Ritter*  
 Keyword: Infectious Disease

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*A. Suárez-Bonnet+, C. Willis, K. Smith, T. Mair, S. Priestnall*  
 Keyword: Neoplasia

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*J. Verhoef+, A. Allen, J. Harding, A. Al-Dissi*  
 Keyword: Liver and Pancreas

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*C. Attipa, H. Wong, C. Yiapanis, A. Ide, M. Kiupel, A. Lara*  
 Keyword: Neoplasia

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*D. Rissi, B. Porter, C. Boudreau, P. Krimer, A. Miller*  
 Keyword: Nervous System

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*A. Sánchez-Sarmiento+, R. Réssio, N. Fernandes, J. Guerra, P. Nascimento, V. Carvalho, C. Sacristán, K. Groch, S. Costa-Silva, O. Gonzales-Viera, A. Meirelles, J. Catão-Dias*  
 Keyword: Wildlife

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*R. Pittaway+, M. Dobromylskyj, K. Erles, S. Priestnall*  
 Keyword: Neoplasia

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*L. Chen+, H. Barnes, O. Fletcher, L. Borst*  
 Keyword: Avian

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*L. Huang, C. Galambos, S. Abman, K. Williams*  
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*S. Kirejczyk, M. Yabsley, J. Ter Beest, Z. Gyimesi, M. Ard, R. McManamon*  
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*C. Chu+, M. Nabity*  
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*S. Kadekaru, Y. Shibata, T. Tokiwa, M. Suzuki, Y. Une*  
 Keyword: Wildlife

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*S. Rine+, J. Peters-Kennedy, R. Hackett, C. Lange*  
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*A. Phillips, R. Suepaul*  
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*M. Betley, B. Stegelmeier, G. Niles, C. Frank*  
 Keyword: Reproductive System



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L. Harris+, K. Hughes, E.J. Ehrhart, J. Yoshimoto, R. Burnett, A. Avery

Keyword: Neoplasia

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C. Schott+, G. Wood

Keyword: Neoplasia

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N. Shiwa, K. Kimitsuki, C. Nakajima, D. Manalo, S. Inoue, C-H. Park

Keyword: infectious Disease

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A. Jones+, A. Suárez-Bonnet, G. Ramirez, S. Priestnall

Keyword: Avian

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R. Dange, P. Pesavento, F. Giannitti, S. Diab

Keyword: Infectious Disease

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M. Jager+, J. Grenier, E. Sloma, A. Miller

Keyword: Neoplasia

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J. Ramos-Vara, M. Miller, D. DuSold

Keyword: Neoplasia

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L. McEndaffer, J. Ford, A. Molesan, K. Kelly

Keyword: Cardiovascular

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J. Rothenburger, C. Himsworth, N. Nemeth, D. Pearl, P.

Treuting, C. Jardine

Keyword: Wildlife

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A. Lewis, R. Ducore, R. Zweig, B. Ferguson, S. Peterson, M. Neuringer, L. Renner, T. McGill, J. McBride, J. Domire, L. Colgin

Keyword: Nervous System

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S. Carrasco+, F.C. Mohr, F. Carvallo, B. Puschner, F. Giannitti, S. Diab

Keyword: Other

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S. Greenwood+, B. Wobeser

Keyword: Neoplasia

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A. Sánchez-Sarmiento+, V. Carvalho, J. Díaz-Delgado, R. Réssio, N. Fernandes, J. Guerra, C. Sacristán, K. Groch, N. Silvestre-Perez, E. Ferreira-Machado, S. Costa-Silva, P. Navas, A. Meirelles, W. Gravena, C. Favero, J. Marigo, C. Bertozzi, A. Colosio, M. Marcondes, M. Cremer, N. Silva, J. Ferreira, E. Sierra, A. Fernández, J. Catão-Dias

Keyword: Infectious Disease

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Keyword: Skin

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G. Balamayooran, C. Labriola, D. Caudell, T. Aycock, N. Kock

Keyword: Wildlife

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R. Koziiy, S. Wood, I. Kozii, S. Derveau, C. Janse van Rensburg, I. Moshynskyy, J. Morris, I. Dvilyuk, E. Simko

Keyword: Infectious Disease

**N-64: PATHOLOGIC AND IMMUNOHISTOCHEMICAL CHARACTERIZATION OF PRIMARY NERVOUS SYSTEM LYMPHOMA IN CATS**

B. McHale, A. Miller, D. Rissi

Keyword: Nervous System

+Competitor for the ACVP Young Investigator Award

The ACVP abstracts will be published on the website at [www.acvp.org](http://www.acvp.org).

## ACVP Late-Breaking Poster Session

### Poster Schedule – West Ballroom C

#### Poster Setup:

Sunday, November 5, 2017. . . . . 7:00 AM – 9:00 AM

#### Poster Viewing:

Sunday, November 5, 2017. . . . . 9:30 AM – 4:30 PM

Monday, November 6, 2017 . . . . . 9:30 AM – 1:00 PM

Tuesday, November 7, 2017 . . . . . 9:30 AM – 3:30 PM

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#### **LB-01: PARALLEL IN TRANSCRIPTION PROFILE, MORPHOLOGIC AND DENSITOMETRIC FINDINGS IN BONE TISSUES AFFECTED BY EQUINE SILICATE ASSOCIATED OSTEOPOROSIS (SAO)**

*Regina Zavodovskaya, Carrie J. Finno, Tanya Garcia-Nolen, Susan M. Stover*

#### **LB-02: METAPHYSEAL AND DIAPHYSEAL DYSPLASIA OF THE THIRD CERVICAL VERTEBRA (C3) SECONDARY TO PHYSEAL NECROSIS IN A QUARTER HORSE FOAL**

*Ching Yang, Steven E. Weisbrode, Christopher Premanandan*

#### **LB-03: NEUROAXONAL DYSTROPHY IN A 4-YEAR-OLD DROMEDARY CAMEL**

*Andrea L. Vanderpool, Yava L. Jones-Hall, Sandra D. Taylor*

#### **LB-04: MORPHOLOGICAL AND IMMUNOHISTOCHEMICAL STUDY OF INTESTINAL TUMORS INDUCED BY HETERAKIS GALLINARUM INFECTION IN PHASIANIDAE**

*Alexandru Flaviu Tabaran, Gerard Michael O'Sullivan*

#### **LB-05: HISTOPATHOLOGICAL APPLICATION OF HIGH RESOLUTION DARK-FIELD MICROSCOPY AND HYPERSPECTRAL IMAGING IN GOLD NANOPARTICLE TOXICITY RESEARCH**

*Alexandru Flaviu Tabaran, Gerard Michael O'Sullivan*

#### **LB-06: UTILIZING GÖTTINGEN MINIPIGS IN OCULAR RESEARCH – REVIEW AND CURRENT PERSPECTIVES**

*Stephanie M. Shrader, William F. Greentree*

#### **LB-07: VALIDATION OF VESICULAR STOMATITIS VIRUS NUCLEOPROTEIN IMMUNOHISTOCHEMISTRY FOR VESICULAR STOMATITIS-INDIANA SEROTYPE VIRUSES**

*Leon Daniel Schermerhorn, Mya Masterson, Jessie D. Trujillo, Igor Morozov, Brian Martin, Tom Monath, Juergen Richt, Sally Davis*

#### **LB-08: DISSEMINATED MYCOBACTERIOSIS CAUSED BY MYCOBACTERIUM KANSASII IN A POT-BELLIED PIG**

*Ryan M. Schafbuch, Stacy H. Tinkler, Chee K. Lim, Rebecca M. Wolking, José A. Ramos-Vara*

#### **LB-09: REDUCED LEVELS OF TISSUE MYCOBACTERIUM AVIUM SUBSPECIES PARATUBERCULOSIS AFTER PEYERS PATCH INOCULATION IN CALVES**

*Kevin J. Stinson, Monica M. Baquero, Brandon L. Plattner*

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*Ekaterina Perminov, Sara Mangosing, Alexandra Confer, Ana Alcaraz, Jason R. Crawford, Olga Gonzalez, Shyamesh Kumar, Edward Dick*

#### **LB-11: ALLOGRAFT INFLAMMATORY FACTOR-1 IS A USEFUL MARKER FOR MACROPHAGES IN MULTIPLE SPECIES**

*Kathleen M. Donovan, Logan McQuillen, Mariah Leiding, J. Adam Geoken, Christine M. Hogan, Heather A. Flaherty, David K. Meyerholz*

#### **LB-12: SQUAMOUS METAPLASIA IN THE NEWBORN TRACHEA**

*Logan McQuillen, David K. Meyerholz*

#### **LB-13: AVOIDING PITFALLS IN STATISTICAL ANALYSIS OF TISSUE SCORES**

*David K. Meyerholz, Amanda P. Beck*

#### **LB-14: BABESIA FELIS INFECTION IN A YOUNG CAT FROM SOUTH AFRICA**

*Anna M. Meredith, Dorothee Bienzle, Janet Beeler-Marfisi*

#### **LB-15: UTERINE TUMORS RESEMBLING OVARIAN SEX CORD TUMOR (UTROSCT) IN TWO BABOONS (PAPIO SPP.)**

*Sara Jane Mangosing, Ekaterina Perminov, Olga Gonzalez, Ana Alcaraz, Erica K. Barkei, Emily M. Corbin, Shyamesh Kumar, Edward J. Dick Jr.*

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*Misa Komine*

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*Keith Koistinen, Jason Koontz, Erica Carroll, Danielle Ippolito*

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*Marion L. Jackson, Beverly A. Kidney, Nicole J. Fernandez, Brianne Y. Cheng*

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*Laura Lynn Bassel, Sarah-Nicole A. Alsop, Emily I. Kaufman, Kevin J. Stinson, Ksenia Vulikh, Laura R. Siracusa, Linda Groocock, Veronique Carson, Tony Cengija, Jeff L. Caswell*

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*Ricardo A.A. Lemos, Carolina Guizelini, Juliana L.P. de Paula, Rayane C. Pupin, Claudio S.L. Barros, Daniela A. Neves, Lilian O.B. Alcântara, Tessie B. Martins*

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*Cristhian Camilo Roza, Ricardo Piñeros, Paola Barato*

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*Paola Barato, Ricardo Piñeros, Norma Forero, Alisson Bello, Maria Paula Santos, Miguel Montufar, Cesar Diaz, Carlos Venegas, Germán Rodríguez, Henry Benavides, Elisabete Martins*

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*Megan Du Toit, John Al-Alawneh, Emily Sheehan, Taylor Argent, Rachel Allavena*

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