### Monday, October 12, 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>9:00 a.m.-5:00 p.m. (CDT)</td>
<td><strong>ACVP Pre-Meeting Workshop</strong>&lt;br&gt;&lt;br&gt;&lt;b&gt;Primate Pathology: New and Emerging NHP Pathology Topics&lt;/b&gt;&lt;br&gt;Session Chair: Rebekah Keesler, DVM, DACVP&lt;br&gt;Charles River Laboratories (available for an additional registration fee)&lt;br&gt;The theme of this year’s workshop is New and Emerging, and we plan to explore new and emerging diseases, NHP models, new discoveries about known diseases, new testing methods, or other unique entities in primate pathology. In the morning, our invited guest speakers will cover diverse topics in anatomic and clinical pathology of NHPs, from academia to zoo/wildlife to industry. Our impressive guests include: Dr. Anne Lewis (anatomic pathologist) from the Oregon National Primate Research Center, Dr. Amanda Martinot (anatomic pathologist) from Tufts University, Dr. Karen Terio (anatomic pathologist) from the University of Illinois, and Dr. Laura Cregar (clinical pathologist) of Charles River Laboratories.&lt;br&gt;&lt;br&gt;For the afternoon program, we invite attendees to present discrete cases, encouraging consideration of the theme, but welcome any interesting case in a primate. If you would like to present a case, please contact Dr. Keesler (<a href="mailto:rebekah.keesler@gmail.com">rebekah.keesler@gmail.com</a>) for details about case submission.</td>
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<tr>
<td>11:55 a.m.-12:45 p.m.</td>
<td><strong>Discovery of Genetic Diseases and Developing New Animal Models in NHP</strong>&lt;br&gt;Anne Lewis, DVM, PhD, DACVP&lt;br&gt;Oregon National Primate Research Center</td>
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### Saturday, October 24, 2020

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<th>Time</th>
<th>Event</th>
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<tr>
<td>8:00 a.m.-9:30 a.m. (CDT)</td>
<td><strong>Veterinary Pathology Editors Meeting</strong></td>
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<td>10:00 a.m.-5:00 p.m. (CDT)</td>
<td><strong>ACVP Pre-Meeting Workshop</strong>&lt;br&gt;&lt;br&gt;&lt;b&gt;Practical Applications of Artificial Intelligence in Veterinary Pathology: User Experiences&lt;/b&gt;&lt;br&gt;On behalf of ACVP Pathology Informatics Committee&lt;br&gt;Session Co-Chairs: Chandra Saravanan, DVM, MS, PhD, DACVP&lt;br&gt;Novartis, Cambridge, MA&lt;br&gt;Melissa Schutten, DVM, PhD, DACVP&lt;br&gt;Genentech, South San Francisco, CA&lt;br&gt;(available for an additional registration fee)</td>
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Pathology practice is undergoing a transformation with widespread adaptation of whole slide imaging. Big data, because of digitization of whole slides, warrants application of modern computational tools such as machine learning (ML) and artificial intelligence (AI) to analyze, mine, and integrate data with high precision and objectivity. ML/AI has already shown some promises in this space. However, such modern computational tools cannot be viewed as a replacement for pathologists; rather they need adequate guidance by skilled pathologists for a careful and enhanced level of interpretation. In this workshop, the ACVP pathologists will present on practicalities of utilizing the emerging field of computational pathology and AI. The audience will have an opportunity to gain insights into potential applications, benefits, and limitations of existing AI technology.
10:05 a.m.-10:40 a.m. (CDT)
Artificial Intelligence Applications in Preclinical Research
Vanessa Schumacher, DVM, MS, DACVP, DABT
Roche, Basel, Switzerland
Tom Albrecht, PhD
F. Hoffmann-LaRoche, Ltd., Basel, Switzerland

10:40 a.m.-11:20 a.m. (CDT)
Application of Deep Learning Based Image Analysis to Solve Problems in Quantitative Pathology
Jean-Martin Lapointe, DVM, MSc, DACVP
AstraZeneca, London, UK

11:20 a.m.-12:00 p.m. (CDT)
Automated Urine Sediment Analysis
Dennis DeNicola, DVM, PhD, DACVP
IDEXX Laboratories, Westbrook, ME

12:00 p.m.-1:00 p.m. (CDT)
Break

1:00 p.m.-1:40 p.m. (CDT)
Deep Learning AI-Based Decision Support in a Toxicologic Pathologist's Workflow
Dan Rudmann, DVM, PhD, DACVP
Charles River Laboratories, Denver, CO

1:40 p.m.-2:20 p.m. (CDT)
Development of Deep Learning Tools for Classification of Normal Histology
Chandra Saravanan, DVM, MS, PhD, DACVP
Novartis, Cambridge, MA

2:20 p.m.-3:00 p.m. (CDT)
Assessment of Skin Toxicity in an in Vitro Reconstituted Human Epidermis Model Using Deep Learning
Sara Santagostino, DVM, PhD, DACVP
Genentech, San Francisco, CA
Fangyao Hu, PhD
Genentech, South Francisco, CA

3:00 p.m.-3:40 p.m. (CDT)
Surveillance of Free-text Veterinary Pathology Reports Using Machine Learning
Lorelei Clarke, DVM, PhD, DACVP
University of Wisconsin, Madison, WI
Nathan Bollig, DVM
University of Wisconsin, Madison, WI

3:40 p.m.-4:00 p.m. (CDT)
Roundtable Session and Q&A

Drs. Bell and Murphy will present an engaging, day-long workshop in dental, oral, and maxillofacial pathology while emphasizing tumors and diseases of cats, dogs, and horses. The subject matter will target veterinary anatomic pathologists in diagnostic practice yet is certain to offer insights to participants of all experience levels, ranging from keen veterinary students to seasoned diagnosticians. The format will be interactive and constructed around case-based discussions with digital microscopy files available to registrants prior to the workshop. Images will play a central role in the course, and gross and microscopic interpretation will be integrated with clinical and radiological findings. The participants will navigate the familiar waters of common oral surgical biopsy specimens as well as those that might be only rarely submitted for diagnostic histopathology. The presenters will also endeavor to illuminate dark and stormy topics such as odontogenic tumors and tumor-like lesions.

Emphasis will be placed on how to create and work through a rationally organized list of differential diagnoses based on key diagnostic features, which may be histological, clinical, or radiographic.

The presenters will share their perspectives on the limitations of histopathology and how to help the clinical team move forward when faced with ambiguity. Multiple opportunities will be available for participants to discuss issues of diagnostic concern with the presenters and the group as a whole. Veterinary dentistry and oral surgery is one of the most rapidly growing specialties, consequently, there have been significant recent advancements in dental care and the therapy of oral diseases. This workshop is an opportunity for you to get current on the nomenclature, diagnosis, and pathogenesis of oral diseases.

**Agenda:**

8:00 a.m.-8:15 a.m.
Welcome/Introductions

8:15 a.m.-10:00 a.m.
Normal Anatomy, Embryogenesis, Odontogenic Tumors

10:00 a.m.-10:15 a.m.
Short Break

10:15 a.m.-12:00 p.m.
Non-odontogenic Tumors and Tumor-like Proliferative Lesions

12:00 p.m.-1:00 p.m.
Long Break

1:00 p.m.-2:30 p.m.
Oral Inflammatory Disease

2:30 p.m.-2:45 p.m.
Short Break

2:45 p.m.-5:00 p.m.
Lightening Rounds – Brief Presentations of Rare and Fascinating Beasts

5:00 p.m.-6:00 p.m. (CDT)
Live Q&A Session with the Certifying Examination Board Leadership
This moderated session will allow attendees to ask questions of the Certifying Examination Board representatives regarding recent changes in the 2021 Phase II examination. We encourage your questions to be submitted in advance.

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**Sunday, October 25, 2020**

8:00 a.m.-9:00 a.m. (CDT)
*Veterinary Pathology* Editorial Board Meeting

**Tuesday, October 27, 2020**

8:00 a.m.-5:00 p.m. (CDT)
C.L. Davis Foundation / S.W. Thompson Pre-Meeting Workshop

*Oral Pathology of Companion Animals—The Common, the Confusing*

Cindy Bell, DVM, DACVP
Specialty Oral Pathology for Animals, Geneseo, IL
Brian Murphy, DVM, PhD, DACVP
University of California, Davis, CA
(available for an additional registration fee)
**Wednesday, October 28, 2020**

**Sponsor Hosted Session**
2:00 p.m.-3:00 p.m. (CDT)

**Embracing Digital - Tips, Tricks and Insights from IDEXX Pathologists**
**Sponsored by IDEXX**
Session Chair: Amber Kachmar
IDEXX, Inc., Portland, ME

In this 60-minute Q&A style panel discussion, IDEXX Pathologists from both our Clinical and Anatomic Pathology teams will share insights, advice, and lessons-learned on the journey of transitioning from traditional glass to digital case reading.

Participants will walk away with insights into the challenges and benefits of transitioning to digital pathology, as well as practical tips for staying connected and engaged with their teams.

Panel:
- Terrell W. Blanchard, DVM, MSS, DACVP, DACVPM
  IDEXX, Pocatello, ID
- Janice A. Cruz Cardona, DVM, DACVP
  IDEXX, Houston, TX
- Linda Berent, DVM, PhD, DACVP
  IDEXX, Columbia, MO
- Leslie D. Wilson, DVM, PhD, DACVP
  IDEXX, Baton Rouge, LA

6:00 p.m.-8:00 p.m. (CDT)
**Mystery Slide Review Session: Neuropathology**
Andrew Miller, DVM, PhD, DACVP
Cornell University

**Thursday, October 29, 2020**

10:00 a.m.-3:30 p.m. (CDT)
**2020 ASVCP Pre-Meeting Workshop: The Basics of Clinical Pathology in Nonclinical Toxicologic Pathology**

Register separately for this event [here](#).

To register for the pre-meeting workshop at the 2020 member rates, you must be an ASVCP member for the 2020/21 year. Please log in to your member profile in order to view member rates. If you do not wish to renew your membership for 2020/21, you must register as a non-member. If you have any questions about your ASVCP membership, please contact ASVCP via email at [info@asvcp.org](mailto:info@asvcp.org) or by phone at (608) 443-2479.

Ever wonder how clinical pathology fits into drug development? Assessment of clinical pathology endpoints is a standard component in preclinical safety assessment and this workshop will highlight basic concepts of clinical pathology through the lens of toxicologic pathology including study design and pre-analytical considerations, standard and nonstandard biomarkers, cytology, and pulling it all together with report writing and rounding out the workshop with an adversity discussion (and possible roundtable discussion, time permitting).

10:00 a.m.-10:05 a.m.
**Introduction**

10:05 a.m.-10:45 a.m.
**Study Design and Pre-analytical Considerations in Nonclinical Studies**
Laura Cregar, DVM, DACVP
Charles River Laboratories

10:45 a.m.-11:30 a.m.
**Hematology and Bone Marrow Basics for Toxicological Clinical Pathology**
Laura Boone, DVM, PhD, DACVP, DABT
Covance Laboratories, Inc.

11:30 a.m.-12:15 p.m.
**Clinical Chemistry Interpretation Considerations**
Tara Arndt, DVM, DACVP
Covance Laboratories, Inc.

12:15 p.m.-12:45 p.m.
Questions and Break

12:45 p.m.-2:30 p.m.
**Cytology in Toxicologic Pathology**
Liza Bau-Gaudreault, DVM, MSc, DACVP
Charles River Laboratories
Florence Poitout, DVM, DACVP, DECVP
Charles River Laboratories
Michelle Cora, DVM, DACVP
NIHS, National Toxicology Program, National Institute of Environmental Health Sciences

1:45 p.m.-2:30 p.m.
Report Writing: Pulling it All Together
Adam Aulbach, DVM, DACVP
Charles River Laboratories
2:30 p.m.-3:15 pm.
Adversity (Oh My!) in the Clinical Path Tox Path Setting
Lila Ramaiyah, DVM, PhD, DACVP
Pfizer

3:15 p.m.-3:30 p.m.
Questions and Discussion

4:00 p.m.-5:00 p.m. (CDT)
Women in Pathology Special Interest Group
Please join us for our inaugural Women in Pathology Special Interest Group (WIP SIG) meeting to discuss the goals of the WIP SIG and plans for 2021. Registrants will be asked to participate in a brief online survey prior to the meeting to gauge member interest in various events and topics for the WIP SIG; survey results will be presented during the meeting. We hope to see you there.

5:30 p.m.-6:30 p.m. (CDT)
Sponsored by Antech Diagnostics
Resident and Trainee Career Development Session
Session Chair: Derick Whitley, DVM, DACVP
Antech Diagnostics, Stillwater, OK
Panelists:
Jeff Edwards, DVM, MPH, DACVP
Antech Diagnostics, College Station, TX
Yava Jones-Hall, DVM, PhD, DACVP
Texas A&M University, College Station, TX
Erin Quist, DVM, MS, PhD, DACVP
EPL, Inc., Research Triangle Park, NC
Jim Meinkoth, DVM, MS, PhD, DACVP
Oklahoma State University, Stillwater, OK

6:30 p.m.-7:30 p.m. (CDT)
VCS/ACVP Oncology-Pathology Working Group (OPWG) Annual Business Meeting
Session Chair: Brian Flesner, OPWG President
The Oncology-Pathology Working Group (OPWG) is a joint initiative of the Veterinary Cancer Society (VCS) and the American College of Veterinary Pathologists (ACVP) that seeks: 1) to promote interdisciplinary communication between oncologist and pathologist and 2) to generate evidence-based consensus statements for various aspects of veterinary oncologic pathology.
We invite the OPWG membership and any non-members interested in learning more about the OPWG to join us for our Annual Business Meeting where the Executive Committee and Tumor Subgroup Chairs will review progress and milestones achieved in 2020 and present future directions and goals for the upcoming year.
For more information or to apply for OPWG membership, please visit the OPWG website here or contact opwg.vcs@gmail.com.

Friday, October 30, 2020

9:00 a.m.-10:00 a.m. (CDT)
Yoga Flow & Meditation with Julie Engiles
Please join us for yoga and meditation during the virtual 2020 ACVP Annual Meeting! Fellow Diplomates, yoga teachers, and meditation experts will lead virtual live sessions in the morning which will also be recorded for practice at any time of day. Classes are designed for beginners but will appropriate for all yoga and meditation practitioners. Join us for the entire hour or choose just yoga (45 minutes) or meditation (about 15 minutes after yoga)—all are welcome!

Julie Engiles, VMD, DACVP, is a registered yoga instructor (RYT200) through Yoga Alliance with over 20-years experience in Vinyasa flow and iyengar style yoga practice. Her practice is designed to create a moving meditation that engages the core and balances strength with flexibility to promote healing, prevent injury, and cultivate physical and cognitive awareness that can be used “on” and “off” the mat.

10:00 a.m.-12:00 p.m. (CDT)
ACVP/AAVLD Diagnostic Pathology Travel Award Session
Session Chair: Fabiano Oliviera, DVM, DACVP
Antech Diagnostics
This session will include all of the oral abstract presentations from those individuals competing for the ACVP/AAVLD Award.

10:00 a.m.-10:05 a.m.
Introduction

2019 ACVP/AAVLD Diagnostic Pathology Travel Award Recipient
10:05 a.m.-10:15 a.m.
THEILERIA ORIENTALIS IKEDA GENOTYPE IS IDENTIFIED IN CATTLE IN SOUTHWESTERN VIRGINIA
Vanessa Oakes, Virginia-Maryland College of Veterinary Medicine
10:15 a.m.-10:25 a.m.
IMMUNOHISTOCHEMICAL CHARACTERIZATION OF MESOTHELIOMA IN SIX LARGE FELIDS
Sarah Coe, Michigan State University
10:25 a.m.-10:35 a.m.
MEDULLARY BONE IN MALE BUDGERIGARS
Nathan Hoggard, University of Tennessee
10:35 a.m.-10:45 a.m.
A RETROSPECTIVE STUDY OF CANINE INTRANASAL MAST CELL TUMORS
Eileen Larsen, Colorado State University
10:45 a.m.-10:55 a.m.
POST-CARDIAC ARREST SYNDROME IN A DOG
Alexander Aceino, Texas A&M University
10:55 a.m.-11:05 a.m.
T-ZONE LYMPHOMA WITH CUTANEOUS PRESENTATION IN A GOLDEN RETRIEVER
Catharine Cowan, Colorado State University
11:05 a.m.-11:15 a.m.
NEURONAL CEROID LIPOFUSCINOSIS IN A CAT
Alan Mulder, University of Georgia
11:15 a.m.-11:25 a.m.
NEISSERIA SP. INDUCED EMBOLIC NECRO-SUPPURATIVE PNEUMONIA IN 3 DOMESTIC CATS
Christopher Bolt, University of Minnesota
11:25 a.m.-11:35 a.m.
DERMAL TUMORS IN FOUR PUERTO RICAN CRESTED TOADS (PELTOPHYRNE LEMUR)
Sierra Imanse, University of Illinois, Urbana-Champaign
A NASAL NEUROECTODERMAL TUMOR IN A LLAMA
Nataly Mamaliger, Mississippi State University

11:00 a.m.-3:00 p.m. (CDT)
ASVCP-ISACP Clinical Pathology Focused Scientific Session
Sponsored by Eiken and Life Diagnostics/Veterinary Biomarkers
Session Chairs: Darren Wood, DVM, DVSC, DACVP
University of Guelph, Guelph, Ontario
Mary Christopher, DVM, PhD, DACVP
University of California, Davis, CA

Invited Speaker
10:00 a.m.-11:00 a.m.
THE INTERACTION BETWEEN INFLAMMATION AND
COAGULATION USING CANINE BABESIOSIS AS A MODEL
Amelia Goddard, BVSc, BVSc(Hons), MMedVet(CLD), PhD
University of Pretoria, South Africa

11:00 a.m.-11:15 a.m.^
LIPOPROTEIN PROFILE OF TRANSDATES IN DOGS AND CATS
Flavio Herberg de Alonso, University of California, Davis

11:15 a.m.-11:30 a.m.^
FLOW CYTOMETRIC ANALYSIS OF EQUINE
BRONCHOALVEOLAR LAVAGE FLUID CELLS IN HORSES WITH
AND WITHOUT SEVERE EQUINE ASTHMA
Heng Kang, University of Guelph

11:30 a.m.-11:45 a.m.^
LIPOFUSCIN IN CANINE BLOOD NEUTROPHILS OR
MONOCYTES IS ASSOCIATED WITH MODERATE TO SEVERE
HEPATOCELLULAR INJURY
Kimberley Sebastian, Michigan State University

11:45 a.m.-12:00 p.m.
CYTOLOGICAL FEATURES OF PITUITARY ADENOMAS IN DOGS:
8 CASES
Michelle DeCourcey, Washington State University

12:00 p.m.-12:30 p.m. (CDT)
Break
Visit the online posters!

12:30 p.m.-12:45 p.m.
ASSAY OF HAPTOGLOBIN, THE PLASMA ACUTE PHASE
PROTEIN, BY HEMOGLOBIN BINDING: OPTIMIZATION OF A
NOVEL CHROMOGEN
David Eckersall, University of Glasgow

12:45 p.m.-1:00 p.m.#
HAPTOGLOBIN AS AN INDICATOR OF ON-GOING ACUTE
INFLAMMATION IN PRE-SLAUGHTER COWS
Funmilola Thomas, Federal University of Agriculture Abeokuta

1:00 p.m.-1:15 p.m.
ACUTE PHASE PROTEINS IN MILK FROM COWS WITH CLINICAL
MASTITIS CAUSED BY DIFFERENT PATHOGENS
Elizabeth Schmidt, São Paulo State University UNESP

1:15 p.m.-1:30 p.m.#^ BRONCHIAL BRUSH CYTOLOGY, ENDOBRONCHIAL BIOPSY,
AND IMMUNOHISTOCHEMICAL MEASUREMENT OF SALSA AS
DIAGNOSTIC TOOLS FOR SEVERE EQUINE ASTHMA
Gary Lee, University of Guelph

1:30 p.m.-1:45 p.m.
INAPPROPRIATE REGENERATIVE RESPONSE IN DOGS
NATURALLY INFECTED WITH BABESIA ROSSI
Chandini Seejarim, University of Pretoria

1:45 p.m.-2:00 p.m.^# UTILITY OF AMIKACIN TO DISSOCIATE PLATELET CLUMPS IN
BLOOD SAMPLES FROM CATS AND DOGS
Demetria Vasilatis, University of California, Davis

2:00 p.m.-2:15 p.m.^# EVALUATION OF AN ANTIBODY-BASED FLOW CYTOMETRY
METHOD FOR TOTAL AND DIFFERENTIAL WHITE BLOOD CELL
COUNTS IN CHICKENS
Natalia Strandberg, Purdue University

2:15 p.m.-2:30 p.m.^# COMPARISON OF IRON STAINING AND SCORING METHODS
ON CANINE BONE MARROW ASPARITES
Grace Pawsat, University of Tennessee

2:30 p.m.-2:45 p.m.^# BONE MARROW AND HEMATOLOGIC FINDINGS IN DOGS
TREATED WITH PHENOBARBITAL
Tiffany Scott, Michigan State University

2:45 p.m.-3:00 p.m.
THREE-YEAR SURVEILLANCE OF CANINE TOTAL
RETICULOCYTE COUNT AND RETICULOCYTE HEMOGLOBIN
ABNORMALITIES
Dennis DeNicola, IDEXX Laboratories, Inc.

^ASVCP Young Investigator Award Competitor
#ISACP Oral Award Competitor

12:00 p.m.-12:30 p.m. (CDT)
Veterinary Student Selected Platform Presentation Session
Session Chairs: Katherine Gibson-Corley, DVM, PhD, DACVP
Vanderbilt University Medical Center
Emily Corbin, DVM, DACVP, DACVPM
The Joint Pathology Center

Join your colleagues for abstract presentations by our young and
promising presenters! It will be a fast-paced session with five-minute
presentations.

12:30 p.m.-12:35 p.m.
DEVELOPMENT OF A DEEP LEARNING METHOD FOR
DISCRIMINATING ANTERIOR NASAL CAVITY DEGENERATIVE,
REGENERATIVE, AND INFLAMMATORY LESIONS IN THE RAT
Samuel Neal, Charles River Laboratories
12:35 p.m.-12:40 p.m.
HOW DOES WEIGHT LOSS AFFECT INFLAMMATION IN THE OBESE MURINE MAMMARY GLAND?
Brittney Moore, University of Wisconsin, Madison

12:40 p.m.-12:45 p.m.
INVESTIGATING CROSS-REACTIVE ANTIBODIES TO SARS-COV-2 IN BCG-VACCINATED MICE
Aubrey Sprecht, Tufts University

12:45 p.m.-12:50 p.m.
BALD EAGLE MORBIDITY AND MORTALITY IN THE SOUTHEASTERN UNITED STATES: A FIVE-YEAR RETROSPECTIVE
Aidan O’Reilly, University of Georgia

12:50 p.m.-12:55 p.m.
RETROSPECTIVE ANALYSIS OF LABORATORY DATA AS PROGNOSTIC FACTORS FOR SURVIVAL IN CANINE SPLENIC HEMANGIOSARCOMA
Erin Paul, Purdue University

1:00 p.m.-1:05 p.m.
Questions and Discussion

1:05 p.m.-1:13 p.m.
Diagnostic Pathology

1:05 p.m.-1:13 p.m.
PUSTULAR DERMATITIS WITH FOLLICULITIS AND ARTERITIS IN A GOAT ASSOCIATED WITH OVINE HERPESVIRUS-2
Jason Struthers, Midwestern University

1:13 p.m.-1:21 p.m.
NONINVASIVE SAMPLING ALTERNATIVES TO CONVENTIONAL BIOPSY FOR THE MOLECULAR DIAGNOSIS OF CUTANEOUS LEISHMANIASIS IN DOGS
Josilene Nascimento Seixas, Federal University of Lavras

Experimental Disease
1:21 p.m.-1:29 p.m.
BORRELIA BURGDORFERI BB059 IS REQUIRED FOR INFECTION AND CONTRIBUTES TO THE DEVELOPMENT OF ARTHRITIS IN MICE
Sebastian Carrasco, Massachusetts Institute of Technology

1:29 p.m.-1:37 p.m.
PATHOLOGY ASSOCIATED WITH SARS-CoV-2 INFECTION IN RHESUS MACAQUES (MACACA MULATTA), BABOONS (PAPIO SPP.), AND COMMON MARMOSETS (CALLITHRIX JACCHUS)
Olga Gonzalez, Southwest National Primate Research Center and Texas Biomedical Research Institute

Industrial and Toxicologic Pathology
1:37 p.m.-1:45 p.m.
BI-TRANSGENIC CTLA4+/- PDCD1-/- MOUSE RECAPITULATES IMMUNE CHECKPOINT INHIBITOR-ASSOCIATED MYOCARDITIS
Lauren Himmel, Vanderbilt University Medical Center

1:45 p.m.-1:53 p.m.
DEVELOPING A DEEP LEARNING CONVOLUTIONAL NEURAL NETWORK METHOD TO COUNT OVARIAN FOLLICLES IN RATS
Lauren Prince, Aiforia Inc.

Natural Disease
1:53 p.m.-2:01 p.m.
RETROSPECTIVE ANALYSIS OF PHAEOHYPHOMYCOSIS IN AQUARIUM-HOUSED FISH, INCLUDING TWO PREVIOUSLY UNREPORTED FUNGAL SPECIES
Abigail Armwood, University of Georgia

2:01 p.m.-2:09 p.m.
PATHOLOGY AND CAUSES OF DEATH IN FREE-RANGING NORTH AMERICAN BEAVERS (CASTOR CANADENSIS) IN CALIFORNIA: A SUITABLE SENTINEL SPECIES FOR FRESHWATER ECOSYSTEMS
Omar Gonzales Viera, University of California, Davis
2:09 p.m.-2:15 p.m.
Questions and Discussion

@Competitor for the Pathology of Wildlife and Zoo Animals Award

2:15 p.m.-3:00 p.m. (CDT)
**ACVP Focused Scientific Poster Session Highlights**
Session Chair: Julie Engiles, VMD, DACVP
University of Pennsylvania, Philadelphia, PA

Several exceptional abstracts have been selected for presentation during this rapid-fire session of five-minute presentations.

2:15 p.m.-2:20 p.m.
Introduction

**Diagnostic Pathology**
2:20 p.m.-2:25 p.m.
MASSIVE BRANCHIAL HENNEGUYOSIS: A DISTINCTIVE MYXOZOAN-INDUCED GILL DISEASE OF CATFISH CAUSED BY MASSIVE INTERLAMELLAR INFECTIONS OF HENNEGUYA EXILIS
Justin Stilwell, University of Georgia

2:25 p.m.-2:30 p.m.
HAVE YOU SEEN THIS LESION: GLOMERULAR "BLOOD CYSTS" AND MESANGIOLYSIS IN A CAT
Jessica Wong, Washington State University

**Experimental Disease**
2:30 p.m.-2:35 p.m.
NEUROLOGICAL CHANGES WERE ASSOCIATED WITH BRAIN DAMAGE AND DOWNSREGULATION OF BDNF LEVELS IN MICE INFECTED WITH BOVINE ALPHAHERPESVIRUS 5
Milene Rachid, Universidade Federal de Minas Gerais

2:35 p.m.-2:40 p.m.
PATHOLOGICAL FINDINGS AND PATHOGENESIS IN EXPERIMENTAL STREPTOCOCCUS PNEUMONIAE INFECTION IN MICE
Ozan Ahlat, Ankara University

**Industrial and Toxicologic Pathology**
2:40 p.m.-2:45 p.m.
SYMOMETRIC DIMETHYLARGININE IS A SENSITIVE BIOMARKER OF GLOMERULAR INJURY IN RATS
Rebecca Kohnken, Abbvie

2:45 p.m.-2:50 p.m.
CATHETER-ASSOCIATED LESIONS IN RABBITS: POTENTIAL FOR CONFOUNDING STUDY RESULTS
Erica Carroll, Covance Laboratories

**Natural Disease**
2:50 p.m.-2:55 p.m.
DISORDERS OF THE NERVOUS SYSTEM IN NEW WORLD CAMELIDS (GENERA LAMA, VICUGNA)
Chloe Goodwin, University of Georgia

2:55 p.m.-3:00 p.m.
VACCINE BREAKS: A RETROSPECTIVE STUDY OF CANINE DISTEMPER IN VACCINATED DOGS
Arturo Oliver-Guimera
University of California, Davis

3:00 p.m.-4:00 p.m. (CDT)
**ACVP, ASVCP and ISACP Virtual Poster Session**
Spend time viewing the poster presentations submitted for the virtual meeting. Poster presenters have recorded short videos and contributed a pdf of their poster presentation. They will be available to chat with you when you go in to view the individual presentations. This session includes submitted posters as well as veterinary student posters and late-breaking poster presentations. A link to the online poster session will be provided to all registrants.

4:00 p.m.-8:45 p.m. (CDT)
**ACVP Veterinary Student and Resident Networking Events**
4:00 p.m.-5:00 p.m. (CDT)
**Veterinary Student Tea Time**
- What does SACVP do for you?
- What opportunities are available from the Society of Toxicologic Pathology (STP)?
- 2020 Veterinary Student Poster Award Selections
- Mentor of the Year Award Selection
- Prizes—veterinary student attendees can register for prizes during the virtual event!

5:00 p.m.-5:15 p.m. (CDT)
**Break**

5:15 p.m.-6:30 p.m. (CDT)
**Meet the Pathologist: A Discussion of Careers in Pathology**
Session Chair: Mark Simpson, DVM, PhD, DACVP
NIH Comparative Biomedical Scientist Training Program, National Cancer Institute, Bethesda, MD

Panel:
Chandra Saravanan, DVM, PhD, DACVP
Novartis Institutes for Biomedical Research Inc., Cambridge, MA

Helen T. Michael, DVM, PhD, DACVP
IDEXX Laboratories, Westbrook, ME

Amanda Fales-Williams, DVM, PhD, DACVP
Iowa State University, Ames, IA

6:30 p.m.-6:45 p.m. (CDT)
**Break**

6:45 p.m.-8:45 p.m. (CDT)
**Veterinary Student and Resident Forum**
Attendees can visit programs virtually to interact with the program directors and staff by clicking on the virtual platform links and engaging in informal "meet and greets" with each program of interest. Information with links to the programs will be provided to registrants.

5:00 p.m.-6:00 p.m. (CDT)
**ACVP Town Hall Business Meeting**

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**Saturday, October 31, 2020**

9:00 a.m.-10:00 a.m. (CDT)
**Slow Yoga Flow with Katherine Gibson-Corley & Gratitude Meditation with Sue Knoblaugh**

Katherine Gibson-Corley, DVM, PhD, DACVP, is a registered yoga teacher (RYT 200) and certified meditation teacher. She has been practicing yoga for over 10 years and found yoga to not only be a physical challenge, but also helped her commit to the present moment. She found the more yoga she did, the more focused, present and peaceful she became—although this is still a work in progress! Katherine brings her extensive knowledge of anatomy and physiology to the mat and hopes to inspire her students to understand their own bodies, follow the breath and live in the moment.

Sue E. Knoblaugh, DVM, DACVP, became interested in meditation after completing The Ohio State University's Health Athlete Program. She has been practicing meditation for the past two years and finds that regular meditation provides great benefit in stress reduction, enabling better focus, and has been key for her mindfulness practice.

10:00 a.m.-12:30 p.m. (CDT)
**Concurrent Session:**
**Fiber Producing Species: A Gross Picture is Worth a Thousand Words**
Session Chairs: Francisco Carvalho, MV, DSc, DACVP
Virginia Tech, Blacksburg, VA
David K. Meyerholz, DVM, PhD, DACVP
University of Iowa, Ames, IA

This session brings together attendees with a common interest in fiber producing animals including goats/sheep, camelid, and rabbit. It will focus on updates as well as classic diseases in these species with an emphasis on diseases with gross pathology, but can also include ancillary tests, pathogenesis, and histopathology to support understanding of the gross pathology.

10:00 a.m.-10:40 a.m.
Small Ruminant Pathology
Francisco A. Uzal, DVM, PhD, MSc, DACVP
University of California, Davis, CA

10:40 a.m.-11:20 a.m.
New World Camelids
Christiane V. Löhr, VMD, PhD, DACVP
Oregon State University, Corvallis, OR

11:20 a.m.-12:00 p.m.
Highlights of Rabbit Pathology
Drury Reavill, DVM, DABVP, DACVP
ZN Labs SLC, Citrus Heights, CA

12:00 p.m.-12:30 p.m.
Questions and Discussion

10:00 a.m.-12:30 p.m. (CDT)
**ASVCP Mystery Slide and Case Discussion Session I**
Session Chair: Erica Behling-Kelly, DVM, PhD, DACVP
Cornell University, Ithaca, NY

12:30 p.m.-1:00 p.m. (CDT)
**Break**

Visit the online posters!

1:00 p.m.-3:30 p.m. (CDT)
**ASVCP / ISACP Current Topics in Clinical Pathology: Gastrointestinal Diagnostics**
Session Chair: Kristina Meichner, DVM, DECVIM-CA, DACVP
University of Georgia, Athens, GA

This session will cover different aspects of diagnostics related to the gastrointestinal tract including serum and fecal biomarkers, cytology, histopathology, and molecular tests.

1:00 p.m.-1:35 p.m.
Current Diagnostics for Chronic Enteropathies in Dogs
Karin Allenspach, DrMedVet, PhD, DECVIM-CA
Iowa State University College of Veterinary Medicine, Ames, IA

1:35 p.m.-2:10 p.m.
Current Diagnostics for Chronic Enteropathies in Cats
Sina Marsilio, DrMedVet, PhD, DECVM-CA, DACVIM-SAIM
University of California, Davis, CA

2:10 p.m.-2:45 p.m.
Analysis of the Gut Microbiome in Companion Animals
Jan Suchodolski, DrMedVet, PhD, DACVM
Texas A&M University, College Station, TX
Sunday, November 1, 2020
(Please note the daylight saving time change)

9:00 a.m.-10:00 a.m. (CST)
Restorative Yoga & Relaxation Meditation with Katherine Gibson-Corley

9:00 a.m.-10:00 a.m. (CST)
ISACP Business Meeting and Awards

10:00 a.m.-12:30 p.m. (CST)
Sponsored by Antech Diagnostics
ACVP and ASVCP Joint Plenary Session:
Artificial Intelligence: Disruptive Technology—Transformative to Veterinary Pathology?
Session Chairs: Christiane V. Löhr, VMD, PhD, DACVP
Oregon State University
R. Mark Simpson, DVM, PhD, DACVP
NIH Comparative Biomedical Scientist Training Program, NCI

Today, disruptive technologies are impacting data interpretation in all spheres of precision medicine. In particular, rapidly evolving computational image processing provides new and quantifiable information from traditional tissue/body-fluid slides. The mining of digitized microscopy slides for sub-visual morphometric phenotypes gives rise to a new meaning of pathology and diagnostic and experimental workflows. A key piece in computational image processing are bioinformatics using artificial intelligence (AI)—harnessing the power of computer-based algorithms to link morphological data to disease outcomes or other endpoints.

The plenary session brings together a group of experts to take the audience on a journey from the introduction of key terms and concepts of image processing and analysis to the cutting-edge developments in the automation of diagnostic workflows. The session will highlight the key role pathologists play in the training and quality control of AI-based imaging workflows and how we can prepare the profession to not just embrace but drive this exciting field forward.

10:00 a.m.-10:50 a.m. (CST)
What Pathologists Need to Know About the Emerging Field of Digital Pathology: Definitions and Terms to Get Started
Aleksandra Zuraw, DVM, PhD, DACVP
Charles River Laboratories, Montreal, Quebec

10:50 a.m.-11:30 a.m. (CST)
Artificial Intelligence (AI) School of Pathology or When Your Student is an AI Learning Machine
John E. Tomaszewski, MD, MASCP
University of Buffalo, Buffalo, NY

11:30 a.m.-12:20 p.m. (CST)
Preparing Pathologists for the Future
Ulysses G.J. Balis, MD
Michigan Medicine, University of Michigan, Ann Arbor, MI

12:20 p.m.-12:30 p.m. (CST)
Questions and Discussion

10:00 a.m.-12:30 p.m. (CST)
ASVCP Veterinary Laboratory Professionals Session
Session Chairs: Trellor Fraites, MT
Ross University
Kristina Meichner, DVM, DECVIM-CA, DACVP
University of Georgia

2:45 p.m.-3:10 p.m.
Saliva as a Diagnostic Sample in Animals and Humans
José J. Cerón, DVM, DECVP
University of Murcia, Murcia, Spain

3:10 p.m.-3:30 p.m.
Update on the Diagnosis of Pancreatitis in Cats and Dogs: Summary of the Recent ACVIM Consensus Statement
Melinda Camus, DVM, DACVP
University of Georgia, Athens, GA

1:00 p.m.-3:30 p.m. (CDT)
Mystery Slide Review Session: Ophthalmic Pathology
Session Chairs: K. Paige Carmichael, DVM, PhD, DACVP
University of Georgia, Athens, GA
Kevin Keel, DVM, PhD, DACVP
University of California, Davis

3:30 p.m.-5:00 p.m. (CDT)
ASVCP Resident Meet & Greet — Bar Trivia
Session Chair: Austin Viall, MS, DVM, DACVP
Iowa State University, Ames, IA

Are you a clinical pathology resident? Think you know the proper markers to identify T-zone lymphoma? Think you also know the airspeed velocity of an unladen swallow? If so, please join us for a fun-filled bar trivia event pitting teams of residents and veteran clinical pathologists in a battle of useful and useless factoids! Please also attend this session to get to know the ASVCP Resident Liaison group!

3:30 p.m.-3:35 p.m.
Welcome and Introduction of the LCPG Activities
Francisco Uzal, DVM, MSc, PhD, DACVP, President, LCPG,
University of California, Davis, CA
Paola Barato, DVM, Esp, PhD, President-Elect, LCPG
Corpavet, Bogota, Colombia

3:35 p.m.-4:00 p.m.
A Tale of a Thousand Monkeys in Puerto Rico
Andres Mejia, DVM, MS, DACLAM, DACVP
University of Wisconsin, Madison, WI

4:00 p.m.-4:25 p.m.
Well Beyond a Diagnosis: The Diverse Role of Pathology in a Zoo
Carlos Rodríguez, DVM, DACVP
Disney’s Animal Kingdom, Lake Buena Vista, FL

4:25 p.m.- 4:40 p.m.
Pathology of Ornithobacterium Rhinotracheale Infection in Chickens (Best Paper Award Presentation)
Carlos Daniel Gornatti Churria, MedVet, DrCSVet
Universidad de la Plata, La Plata, Argentina

4:40 p.m.-5:00 p.m.
Differential Yellow Fever Susceptibility Among Selected New World Non-Human Primates, Comparison with Humans, and Implications for Surveillance
Natalia Fernandes
Adolfo Lutz Institute, Sao Paulo, Brazil
10:00 a.m.-10:40 a.m. (CST)
Canine Crossmatch Studies: Comparison of Plasma vs. Serum
Megan Caudill, MS, DVM, DACVP
University of Florida, Gainesville, FL

10:40 a.m.-11:45 a.m. (CST)
Protein Electrophoresis of Serum and Urine
A. Russell Moore, MS, DVM, DACVP
Colorado State University, Fort Collins, CO

11:45 a.m.-12:30 p.m. (CST)
Protein Electrophoresis of Exotic Species
Carolyn Cray, PhD
University of Miami, Miller School of Medicine, Miami, FL

12:30 p.m.-1:00 p.m. (CST)
Break
Visit the online posters!

1:00 p.m.-3:00 p.m. (CST)
Concurrent Session: Future Practice Implications for Pathologist Training
Session Chair: R. Mark Simpson, DVM, PhD, DACVP
NIH Comparative Biomedical Scientist Training Program, NCI, Bethesda, MD

Speakers:
Kelli Boyd, DVM, PhD, DACVP
Gilead Sciences, Inc.

Gregg Dean, DVM, PhD, DACVP
Colorado State University

Dan Rudmann, DVM, PhD, DACVP
Charles River Laboratories

In this concurrent session on training for the future of pathology practice, attendees will have the opportunity for interactive participation with a panel of training directors who will debate approaches to training pathologists for the practice of digital and molecular pathology. This discussion seeks to focus foresight on professional responsibility to prepare for a new emerging standard of care. Members of the panel of discussants will include representatives from the ACVP Future Practice Task Force, Informatics Committee, AP and CP training faculty, and industry veterinary pathologists, whose development of health care technologies and pathologist positions oriented to meet future practice needs is accelerating. The discussion will be informed through presentations from pathology training directors who are addressing future practice learning objectives as well as the incorporation of molecular, digital computational image analysis, and pathology informatics for both diagnosis and disease investigation in their training programs. Ambitiously, some unofficial working concepts for objectives and standards in veterinary pathology training that will provide a new 5 to 10 years can be sought as a consequence of the session.

1:00 p.m.-3:00 p.m. (CST)
ASVCP Mystery Slide and Case Discussion Session II
Session Chair: Erica Behling-Kelly, DVM, PhD, DACVP
Cornell University, Ithaca, NY

3:00 p.m.-5:00 p.m. (CST)
Diverse Voices of ACVP: How Our Identities and Lived Experiences Have Influenced Our Career Paths
Session Chairs: Jose G. Vilches-Moure, DVM, PhD, DACVP
Stanford University Medical Center, Stanford, CA
Sue Knoblaugh, DVM, DACVP
Ohio State University, Columbus, OH

Panel:
- Dr. Paige Carmichael, University of Georgia; Anatomic Pathology
- Dr. Athema Etzioni, Tuskegee University; Clinical Pathology
- Dr. Nasir Kahn, Pfizer, Inc.; Anatomic Pathology
- Dr. Anne Barger, University of Illinois; Clinical Pathology
- Dr. Talia Wong, Third-Year Resident, University of California, Davis; Anatomic Pathology

- Welcome & Introductory Remarks
- Introduction of Panelists
- Panelist Personal Accounts and Stories
- Pre-submitted Questions
- Live Questions from Audience/Attendees

5:00 p.m.-6:00 p.m. (CST)
ASVCP Business Meeting and Awards Event
- ASVCP Educator Award
- ASVCP Service Award
- ASVCP Lifetime Achievement Award
- ASVCP Young Investigator Awards

6:00 p.m.-8:00 p.m. (CST)
ACVP Awards and Recognition Event
Join your colleagues in recognizing your fellow pathologists:
- Honorary Member Award
- Distinguished Member Award
- Abstract Awards
- Presidential Awards
- Passing of the Presidential Gavel

All sessions are in U.S. Central time. Please make note of the time change (as applicable) on Sunday, November 1, 2020.

Poster Sessions
Friday, October 30, 2020
3:00 p.m.-4:00 p.m. CDT
Virtual Poster Session

Authors will be present in the online poster area for questions and discussion with attendees. Poster presenters have provided a video summary of their poster presentation. These video recordings along with a pdf of their poster and their abstract are available for attendees to access. There is also a chat section for each poster. Authors will be present and look forward to interacting with attendees during the poster session on Friday, October 30 from 3:00 p.m.-4:00 p.m. CDT. A link to this area will be provided to all attendees closer to the virtual meeting dates. Once you receive that link, you can go in and view the posters. Leave a chat message or question for poster authors in order to increase interaction.

Clinical Pathology
Poster C-01
RETROSPECTIVE EVALUATION OF THE EFFECT OF CEREBROSPINAL FLUID TOTAL MICROPROTEIN LEVELS ON SURVIVAL IN DOGS AND CATS DIAGNOSED WITH ALBUMINOCTYLOGICAL DISSOCIATION
Alexandra Draper, University of Cambridge

Poster C-02
PREVALENCE OF FELINE BLOOD TYPES FROM CENTRAL AND SOUTHERN CHILE
Karla Alvarez Escobar, Austral University of Chile
<table>
<thead>
<tr>
<th>Poster C-31</th>
<th>CHANGES IN PLASMA METABOLITE CONCENTRATIONS IN RIDING HORSES SUPPLEMENTED WITH ANTI-OXIDANT AND ANTI-INFLAMMATORY COMPOUND</th>
<th>Koh Kawasumi, Nippon Veterinary and Life Science University</th>
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| Poster C-32 | CYTOLOGIC FEATURES OF AN ACANTHOMATOUS AMELOBLASTOMA IN A DOG | Jelena Palic, IDEXX |

#Competitor for the ISACP Poster Award.

## Diagnostic Pathology

| D-01 | BILATERAL CORNEAL PIGMENTATION IN ARABIAN HORSE | Abelardo Morales-Briceno, SHS Veterinary Center Abu Dhabi |

| D-02 | HYPOPLASIA OF DENTIN AND ENAMEL IN ARABIAN HORSE GELDING | Abelardo Morales-Briceno, SHS Veterinary Center Abu Dhabi |

| D-03* | MALAKOPLAKIA IN THE URINARY BLADDER OF TWO PUPPIES | Katelin Davis, Purdue University |

| D-04 | IMMUNOHISTOCHEMICAL EXPRESSION OF ERG ONCOPROTEIN IN NORMAL CANINE TISSUES AND NONVASCULAR NEOPLASMS OR LESIONS | Jose Ramos-Vara, Purdue University |

| D-05* | CAPRINE ARTHRITIS-ENCEPHALITIS (CAE) IN A YOUNG GOAT | Michelle Liu, University of Tennessee |

| D-06 | POLYPHASIC MYODEGENERATION OF THE CRICOPHARYNGEUS MUSCLE IN A CASE OF CANINE CRICOPHARYNGEAL ASYNCHRONY | Kerry Goldin, National Institutes of Health and Michigan State University |

| D-07* | CYTOLOGIC EVALUATION OF DIAGNOSTIC FLUIDS FROZEN WITH A CRYOPRESERVATION MEDIA | Sara Obeiter, University of Missouri |

| D-08 | CUTANEOUS VIRAL PAPILLOMA WITH MALIGNANT TRANSFORMATION TO SQUAMOUS CELL CARCINOMA ASSOCIATED WITH CPV1 IN A LABRADOR RETRIEVER | Robert Hainline, Joint Pathology Center |

| D-09 | HEMOCYTIC SARCOMA OF THE BODY WALL IN A CALIFORNIA KING CRAB | Janas Gray, Joint Pathology Center |

| D-10 | TUMOR LYSIS SYNDROME IN A HORSE WITH LYMPHOMA | Glenn Brado, Michigan State University |

| D-11 | PROCESSING EQUINE TEETH FOR HISTOLOGY | Charles Schwarten, Joint Pathology Center |

| D-12* | TROPHOBLAST EMBOLI IN THE LUNG OF A SNOWSHOE HARE | Marta Marinenti, Utah State University |

| D-13* | NEURONAL CERIOD LIPOFUSCINOSIS IN A COQUEREL’S SIFAKA (PROPITHECUS COQUERELI) | Kelsey Fiddes, Joint Pathology Center |

| D-14* | MEDULLARY BONE IN MALE BUDGERIGARS | Nathan Hoggard, University of Tennessee |

| D-15 | INTRACRANIAL FIBROPAPILLOMA IN TWO GREEN SEA TURTLES (CHELONIA MYDAS) | David Rotstein, Marine Mammal Pathology Services |

| D-16* | A RETROSPECTIVE STUDY OF CANINE INTRANASAL MAST CELL TUMORS | Eileen Larsen, Colorado State University |

| D-17 | A CASE OF INCLUSION BODY DISEASE OF BOIDS IN A BOA CONSTRICTOR FROM TRINIDAD AND TOBAGO | Alexandria Sookraj, University of the West Indies |

| D-18 | INTRAOCULAR ASTROCYTOMA IN AN ATLANTIC BOTTLENOSE DOLPHIN (TURSIOPS TRUNCATUS) | David Rotstein, Marine Mammal Pathology Services |

| D-19 | HAVE YOU SEEN THIS LESION: GLOMERULAR “BLOOD CYSTS” AND MESANGIOLYSIS IN A CAT | Jessica Wong, Washington State University |

| D-20* | OLFACTORY GANGLIONEUROBLASTOMA IN A DOG | Ashley Romano, Colorado State University |

| D-21 | TUMOR INFILTRATING LYMPHOCYTES IN 107 PET RABBIT MAMMARY CARCINOMAS – PERSPECTIVE CONSIDERATIONS | Sandra Schoniger, Targos Molecular Pathology GmbH |

| D-22 | FELINE BRONCHORRHEA: HISTOPATHOLOGICAL, HISTOCHEMICAL, AND IMMUNOHISTOCHEMICAL INVESTIGATION OF A LOBECTOMIZED SPECIMEN TO DETERMINE THE CAUSE OF WATERY HYPERSECRETION | Ikki Mitsui, Okayama University of Science |

| D-23* | POST-CARDIAC ARREST SYNDROME IN A DOG | Alexander Aceino, Texas A&M University |

| D-24* | TALAROMYCES BONINENSIS MENINGOEENCEPHALITIS IN A LABRADOR RETRIEVER | Rebecca Bacon, Texas A&M University |
D-25* NEURAL HYPTERTROPHY AND HYPERPLASIA IN A CASE OF CHRONIC OVINE PANCREATITIS
Antoine Cournoyer, University of Montreal

D-26* FELINE MESOTHELIOMA: A CASE REPORT AND COMPARISON OF CYTOLOGIC, IMMUNOCYTOCHEMICAL, HISTOPATHOLOGY AND IMMUNOHISTOCHEMICAL FINDINGS
Jose Cesar Menk Pinto Lima, Louisiana State University and Louisiana Animal Disease Diagnostic Laboratory

D-27* ACUTE MYELOID LEUKEMIA IN A RHEUS MACAQUE
Kathleen Mulka, Johns Hopkins University

D-28* MASSIVE BRANCHIAL HENNEGUYOSIS: A DISTINCTIVE MYXOZOAN-INDUCED GILL DISEASE OF CATFISH CAUSED BY MASSIVE INTERLAMELLAR INFECTIONS OF HENNEGUYA EXILIS
Justin Stilwell, University of Georgia

D-30* T-ZONE LYMPHOMA WITH CUTANEOUS PRESENTATION IN A GOLDEN RETRIEVER
Catharine Cowan, Colorado State University

D-31* PATHOLOGIC CHARACTERIZATION OF A LEUKOENCEPHALOMYELOPATHY IN TWO DOUBLE-RED-FACTOR SUN CONURES (ARATINGA SOLSTITIALIS)
Samantha St. Jean, Texas A&M University

D-32 CASE REPORT: ENDOCARDIAL FIBROSIS IN A DOMESTIC MIXED SHORTHAIR CAT
Morgan Smith, The Ohio State University

D-33* CANINE ADENOVIRUS TYPE-1 ENCEPHALITIS IN A PUPPY
Emma Torii, University of Pennsylvania

D-34 NOT HORSEING AROUND: ACTINOBACILLUS EQUULI INFECTION IN PIGS; A FIVE-YEAR (2015 TO 2020) RETROSPECTIVE ANALYSIS OF CASES SUBMITTED TO THE IOWA STATE UNIVERSITY VETERINARY DIAGNOSTIC LABORATORY
Chris Siepker, Iowa State University

D-35@ ORAL PAPILLOMATOSIS IN A ROTTWEILER DOG
Nur Amalina Noralidin, Universiti Malaysia Kelantan

D-36* NEURONAL CEROID LIPOFUSCINOSIS IN A CAT
Alan Mulder, II, University of Georgia

D-37* NEISSERIA SP. INDUCED EMBOLIC NECROSUPPURATIVE PNEUMONIA IN 3 DOMESTIC CATS
Christopher Bolt, University of Minnesota

D-38 FELINE SEBACEOUS CARCINOMA: HISTOPATHOLOGY AND BIOLOGICAL BEHAVIOR IN 11 CASES
Tanya Angell, University of Pennsylvania

D-39* INVESTIGATION INTO SARCOCYSTIS INFECTION IN FREE-RANGING BLACK BEARS (URSUS AMERICANUS) AND GRIZZLY BEARS (URSUS ARCTOS HORBILIS) IN BRITISH COLUMBIA, CANADA
Lisa Lee, Canadian Wildlife Health Cooperative and Animal Health Centre Abbotsford

D-40* CARDIAC PROTOTHECOSIS IN A BOXER DOG
Kirsten Landsgaard, Texas A&M University

D-41@ LISTERIA MONOCYTOGENES INFECTION WITH SPIRURID INFESTATION IN A MONITOR LIZARD (VARANUS VARIUS)
Yung-tien Tien, University of Illinois, Urbana-Champaign

D-42 A PUTATIVE EPIZOOTIC OF INTERSTITIAL PNEUMONIA IN A HERD OF YOUNG MINIATURE DONKEYS ASSOCIATED WITH ASININE HERPESVIRUSES 2 AND 5
Deborah Chong, Oregon State University

D-43* SUBEPIDERMAL BLISTERING/BULLOUS DISEASE IN AN ADULT QUARTER HORSE
Sarai Milliron, Texas A&M University

D-44 TORSION OF THE CAUDATE LOBE OF THE LIVER AND COINCIDENT NECROHEMORRHAGIC TYPHLOCOLITIS IN A CAPTIVE PATAGONIAN MARA, DOLICHOTIS PATAGONUM
Katherine Hughes, University of Cambridge

D-45* A CASE OF PETER'S ANOMALY IN A DOMESTIC LONGHAIR CAT
Ji-Hang Yin, Auburn University

D-46 FIRST REPORTED CASE OF RHINOSPORIDIUM SEEBERI INFECTION IN A DOG IN THE CARIBBEAN REGION
Indira Pargass, University of the West Indies

D-47 OXALATE NEPHROSIS IN A TONKIN BUG-EYED FROG (THELODERMA CORTICALE)
Jennifer Landolfi, University of Illinois Zoological Pathology Program

D-48 NATURAL CLINICAL MYCOBACTERIUM INFECTION IN A DOMESTIC RABBIT (ORYCTOLAGUS CUNICULUS DOMESTICUS) IN OREGON, USA
Deborah Chong, Oregon State University

D-49* DISSEMINATED ASPERGILLOSIS AND CONCURRENT LOCALIZED CUTANEOUS PHAEOHYPOMYCOSIS IN A DOG (CANIS FAMILIARIS)
Abigail Finley, Midwestern University

D-50@ SARCOMA WITH DIFFUSE INVOLVEMENT OF THE SKELETAL MUSCLE IN A GROUP OF CAPTIVE PUERTO RICAN CRESTED TOADS (PELTOPHRYNE LEMUR)
Emily Ratsep, University of Guelph
D-51* OUTBREAK OF EXTRAINTESTINAL PATHOGENIC ESCHERICHIA COLI-INDUCED NECROTIZING PNEUMONIA IN DOGS
Emi Sasaki, Louisiana State University

D-52 SUDDEN DEATH IN A DOG DUE TO PRESUMED POSITION-INDUCED HYPERTHERMIA: A FORENSIC INVESTIGATION
Morgan Matthews, Tufts University

D-53* IDENTIFICATION OF POWASSAN VIRUS INFECTION IN DOGS IN THE WESTERN GREAT LAKES REGION
Olivia Swartley, University of Wisconsin, Madison

D-54* A NASAL NEUROECTODERMAL TUMOR IN A LLAMA
Nataly Mamaliger, Mississippi State University

D-55 INTRALUMINAL AORTIC CHONDROSARCOMA WITH METASTASIS TO THE ILIAC BIFURCATION MIMICKING SADDLE THROMBOSIS IN A DOG
Annabelle Burnum, Tufts Cummings School of Veterinary Medicine

D-56 AN OUTBREAK OF FATAL HERPES SIMPLEX VIRUS IN FREE-RANGING BLACK-TUFTED MARMOSETS (CALLITHRIX PENICILLATA)
Tais Meziara Wilson, University of Brasilia

D-57 INVESTIGATING EPIZOOTICS: ACUTE FATAL TOXOPLASMOSIS IN URBANIZED FREE-RANGING BLACK-TUFTED MARMOSETS (CALLITHRIX PENICILLATA)
Tais Meziara Wilson, University of Brasilia

D-58* UNUSUAL IMMUNOHISTOCHEMICAL STAINING CHARACTERISTICS IN A CANINE Rhabdomyosarcoma
Erika Hoffeld, University of Wisconsin, Madison

D-59 DISSEMINATED ACTINOMYCETES SPECIES INFECTION IN TWO PET CHINCHILLAS
Chun-Ming Lin, Tufts University

D-60* MALIGNANT MESOTHELIOMA IN A LION
Kaylin McNulty, Mississippi State University

D-61 EQUINE PROTOZOAL MENINGOENCEPHALITIS ASSOCIATED WITH NEOSPORA SPECIES IN A CAPTIVE BRED ZEBRA (EQUUS ZEBRA)
Stephani Ruppert, Midwestern University

D-62 PALISADING GRANULOMAS IN DOGS
Michael Lund, University of Pennsylvania

D-64 METASTATIC ORBITAL JUVENILE EMBRYONAL RHABDOMYOSARCOMA IN A LABRADOR RETRIEVER
Cesar Piedra-Mora, Tufts University

D-65@ LYMPHOMA IN 2 CAPTIVE COPE’S GREY TREE FROGS (HYLA VERSICOLOR)
Andeliene Croce, North Carolina State University

D-66 EQUINE HERPESVIRUS-1 VIRAL MENINGOENCEPHALITIS IN TWO NANGER DAMA
Ryan Yanez, Michigan State University

D-67 MESOTHELIOMA IN A HORSE WITH BI-CAVITARY EFFUSION
David Kim, Washington State University

@Competitor for the Pathology of Wildlife and Zoo Animals Award
*Competitor for the ACVP Young Investigator Award

Education
ED-01 SURVEY OF INSTITUTIONAL TEACHING APPROACHES TO CLINICAL-YEAR CLINICAL PATHOLOGY INSTRUCTION AND COMPARISON WITH PRIOR SURVEY RESULTS
Jennifer Johns, Oregon State University

ED-02 TELL THE CELL: AN ADAPTATION OF “GUESS WHO” GAME FOR TEACHING CYTOLOGY TO CLINICAL PATHOLOGY RESIDENTS AND VETERINARY STUDENTS
Karena Tang, Purdue University

ED-03 IMPLEMENTING STRATEGIES TO EXPOSE COLORADO STATE UNIVERSITY UNDERGRADUATES, GRADUATE VETERINARY STUDENTS AND PATHOLOGY RESIDENT TRAINEES TO TOXICOLOGIC PATHOLOGY
Alex Byas, Colorado State University

ED-04 HOW CLINICAL PATHOLOGISTS ARE DOING ON QUARANTINE? IMPACT OF SARS-CoV-2 PANDEMIC ON WORKING ACTIVITIES AND USE OF VIRTUAL CONTINUING EDUCATION TOOLS FOR CLINICAL PATHOLOGISTS OF BRAZIL
Stella Valle, Federal University of Rio Grande do Sul

Experimental Disease
E-01* RHODOCOCCUS EQUI ENGAGES THE CYTOSOLIC DNA SENSING PATHWAY AND INDUCES TYPE I IFN EXPRESSION
Krystal Vail, Texas A&M University

E-02 INTERLEUKIN-1 ALPHA (IL-1α) AS A SURVIVAL BIOMARKER FOR PATIENTS WITH HUMAN PAPILLOMA VIRUS (HPV)-NEGATIVE HEAD AND NECK SQUAMOUS CELL CARCINOMA (HNSCC)
Katherine Gibson-Corley, University of Iowa

E-03 RIPK1 KINASE INACTIVATION IN THE CONTEXT OF INTESTINAL SPECIFIC AND WHOLE BODY NEMO DEFICIENCY
Joshua Webster, Genentech
E-04
PATHOLOGICAL FINDINGS AND PATHOGENESIS IN EXPERIMENTAL STREPTOCOCCUS PNEUMONIAE INFECTION IN MICE
Ozan Ahlat, Ankara University

E-05*
EXPERIMENTAL INFECTION OF AQUATIC BIRD BORNAVIRUS-1 IN MUSCOVY DUCKS
Melanie Iverson, University of Guelph

E-06
RESPIRATORY SYNCTIAL VIRUS (RSV) TROPISM IN BRONCHIOLAR EPITHELIUM
Mark Ackermann, Oregon State University and LambCure LLC

E-07*
FIBROBLAST GROWTH FACTOR-21 (FGF21) ANALOG, LY2405319, DECREASES BODY WEIGHT AND HEPATIC LIVER LIPID CONTENT IN OBESE AND OVERWEIGHT CATS
Emily Brinker, Auburn University

E-08
NEUROLOGICAL CHANGES WERE ASSOCIATED WITH BRAIN DAMAGE AND DOWNREGULATION OF BDNF LEVELS IN MICE INFECTED WITH BOVINE ALPHAHERPESVIRUS 5
Milene Rachid, Universidade Federal de Minas Gerais

E-09
THE USE OF AN ENGINEERED DOXORUBICIN-LOADED FERRITIN NANOCAKE: A POSSIBLE TREATMENT FOR FELINE MAMMARY TUMORS
Nicolo Rensi, University of Padua

E-10
EFFICACY OF CONCURRENT VACCINATION WITH MODIFIED-LIVE PRRSV-1 AND PRRSV-2 VACCINES AGAINST HETEROLOGOUS DUAL PRRSV-1 AND PRRSV-2 CHALLENGE IN LATE TERM PREGNANCY GILTS
Siyeon Yang, Seoul National University

E-11*
INTEGRATED STRESS RESPONSE IN RAT CORNEAL ECTASIA
Cornelia Peterson, Johns Hopkins School of Medicine

E-12*
QUANTIFICATION OF FECAL MUC5AC IN SWINE DYSENTERY
Susanne Je-Han Lin, Iowa State University

E-13*
MORPHOLOGIC CHARACTERIZATION OF A PARANEOPLASTIC PERIPHERAL AXONOPATHY IN MICE WITH SUBCUTANEOUS PATIENT-DERIVED PANCREATIC DUCTAL ADENOCARCINOMA
Jonathan Nagel, University of North Carolina and North Carolina State University

E-14
HISTOPATHOLOGICAL FINDINGS AND EXTRAVASCULAR PARASITES IN A MURINE MODEL OF AFRICAN TRYPANOSOMIASIS
Nathan Crilly, Johns Hopkins University

E-15*
EXPERIMENTAL INFECTION OF AQUATIC BIRD BORNAVIRUS-1 IN CHICKENS
Melanie Iverson, University of Guelph

E-16
DEVELOPMENT OF OCULAR PATHOLOGY IN A CANINE MODEL OF MUCOPOLYSACCHARIDOSIS IIIB
Ariel Nenninger, Iowa State University

E-17
ACTIVATION OF THE TOLL-LIKE RECEPTOR 4 (TLR4) SIGNALING COMPLEX IN A CANINE MODEL OF MUCOPOLYSACCHARIDOSIS IIIB
Tyler Harm, Iowa State University

E-18@&
EVALUATING MYCOBACTERIUM BOVIS IN TWO DISTINCT U.S. FERAL SWINE POPULATIONS
Dana Hill, USDA APHIS National Veterinary Services Laboratories and Iowa State University

*Competitor for the ACVP Young Investigator Award
&Competitor for the STP Resident and Student Poster Award
@Competitor for the Pathology of Wildlife and Zoo Animals Award

Industrial and Toxicologic Pathology

T-02*
NOVEL POLYMER-CROSS LINKER ADHESIVES INDUCE FOREIGN BODY AND HYPERSENSITIVITY REACTIONS WHEN INJECTED INTO THE SUBCUTIS OF EIGHTY-EIGHT MICE
Caitlin Brown, Purdue University

T-03
QUALIFICATION OF AUTOMATED CYCLOMOLGUS MONKEY CSF ANALYSIS ON THE SYSMEX XN-1000V HEMATOLOGY ANALYZER
Liza Bau-Gaudreault, Charles River Laboratories

T-04*
COXIELLA BURNETII WHOLE CELL VACCINE REACTOGENIC RESPONSE IN A MOUSE MODEL
Alycia Fratzke, Texas A&M University and Texas A&M Health Sciences Center

T-05*
ZINC TOXICOSIS IN TWO DOGS WITH GASTRIC FOREIGN BODIES (PENNIES)
Kerry Goldin, National Institutes of Health Comparative Biomedical Scientist Training Program

T-06
CATHETER-ASSOCIATED LESIONS IN RABBITS: POTENTIAL FOR CONFOUNDING STUDY RESULTS
Erica Carroll, Covance Laboratories, Inc.

T-07
SYMMETRIC DIMETHYLARGININE IS A SENSITIVE BIOMARKER OF GLOMERULAR INJURY IN RATS
Rebecca Kohnken, Abbvie

T-08
ALPHA 2 MACROGLOBULIN MAY CONTRIBUTE TO INFLAMMATION ASSOCIATED APTT PROLONGATION IN CYCLOMOLGUS MONKEYS
Michael Logan, AbbVie, Inc.

T-09
ACUTE DERMAL IRRITATION RESPONSE IN WHITE SINCLAIR, HANFORD, AND GOTTINGEN MINIPIGS
Alric Lopez, Sinclair Research
T-10* 
CHARACTERIZATION AND COMPARISON OF SUBACUTE DEHYDROPYRROLIZIDINE ALKALOID TOXICOSIS IN C57BL MICE GAVAGED WITH RIDDELLINE, SENECIONINE, SENECiphylline OR LASIOCarpine
Michael Clayton, USDA Poisonous Plant Research Laboratory and Utah State University

T-11
A SPONTANEOUS CASE OF SUSPECTED PULMONARY EPITHELIOID TROPHOBLASTIC TUMOR IN A CYNOMOLGUS MACAQUE
Agnes Wong, Purdue University

T-12*&
REPRODUCTIVE FITNESS OF HONEY BEE QUEENS EXPOSED TO THIAMETHOXAM DURING DEVELOPMENT
Ivanna Kozii, University of Saskatchewan

T-13&
DRONE FERTILITY AND TESTICULAR DEVELOPMENT: IMPACT OF EXPOSURE TO A MITICIDE AND PESTICIDE
Stephanie Tremblay-Chapdelaine, Universite de Montreal

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Natural Disease

N-01
A CASE OF NATURALLY OCCURRING LYSOSOMAL STORAGE DISEASE IN A JACOB LAMB
Laura Setyo, University of Surrey

N-02*
CHRONIC HEARTWORM PRESENTING AS SPONTANEOUS PNEUMOTHORAX
Mayra Tsoi, Michigan State University

N-03*
PHAEOHYPHOMYCOSIS CASES AT THE UNIVERSITY OF GEORGIA FROM 2010 TO 2020
Kathryn McCullough, University of Georgia

N-04
PRIMARY ANGLE CLOSURE GLAUCOMA IN AMERICAN COCKER SPANIELS: PRELIMINARY GENETIC STUDY
M. Isabel Casanova, University of California, Davis

N-05
DETECTION OF CANINE DISTEMPER VIRAL (CDV) RNA IN AN AFRICAN PYGMY HEDGEHOG (ATELERIX ALBIVENTRIS) WITH A CHRONIC DEMYELINATING MYELOENCEPHOPATHY
Jonathan Fox, University of Wyoming

N-06*
RETROSPECTIVE ANALYSIS OF PHAEOHYPHOMYCOSIS IN AQUARIUM-HOUSED FISH, INCLUDING TWO PREVIOUSLY UNREPORTED FUNGAL SPECIES
Abigail Armwood, University of Georgia

N-07*
INTERPATHOLOGIST DIAGNOSTIC AGREEMENT FOR CANINE GLIOMA
Gregory Krane, National Institute of Environmental Health Sciences

N-08*
RNA-SCOPE IN SITU HYBRIDIZATION AS A NOVEL TECHNOLOGY FOR THE ASSESSMENT OF C-KIT M-RNA EXPRESSION IN CANINE MAST CELL TUMORS
Davide De Blase, University of Naples Federico II

N-09*
THE PANCREATIC ISLET MICROENVIRONMENT IN FELINE DIABETES MELLITUS
Valeria Bergomi, University of Cambridge

N-10*
PATHOLOGY AND CAUSES OF DEATH IN FREE-RANGING NORTH AMERICAN BEAVERS (CASTOR CANADENSIS) IN CALIFORNIA: A SUITABLE SENTINEL SPECIES FOR FRESHWATER ECOSYSTEMS
Omar Gonzales Viera, University of California, Davis

N-11*
IMMUNOHISTOCHEMICAL PROFILES OF INFILTRATING LEUKOCYTES IN FELINE ORAL SQUAMOUS CELL CARCINOMA: A RETROSPECTIVE
Melissa Roy, University of California, Davis

N-12*
EMERGENCE OF BABESIA CONRADAE INFECTION IN COYOTE-HUNTING GREYHOUNDS IN OKLAHOMA
Erin Stayton, Oklahoma State University

N-13
A RETROSPECTIVE ANALYSIS OF FATAL WEST NILE VIRUS ENCEPHALITIS IN PENNSYLVANIA HORSES FROM 2009-2019 AND CORRELATION WITH CLIMATE, HUMAN, AND AVIAN DISEASE
Jolie Demchur, University of Pennsylvania

N-14
PROPOSAL FOR CLINICAL AND HISTOPATHOLOGICAL GRADING SYSTEMS TO MORE ACCURATELY PREDICT OUTCOME IN CANINE APOCRINE GLAND ADENOCARCINOMA OF THE ANAL SAC
Hannah Wong, Royal Veterinary College
MULTI-SYSTEMIC SPIRORCHIDIASIS AND GASTROINTESTINAL PARASITISM IN LOUISIANA RED-EARED SLIDERS (TRACHEMYS SCRIPTA ELEGANS)
Rebecca Radisic, Southeastern Cooperative Wildlife Disease Study and University of Georgia

IMMUNE CELL DISTRIBUTION IN THE MAMMARY GLAND OF PRE- AND PERI-PUBERTAL LAMBS INDICATES A DYNAMIC MICROENVIRONMENT
Katherine Hughes, University of Cambridge

A PROPOSED GRADING SCHEME FOR ENDOMETRIAL HYPERPLASIA (EH) IN LARGE CAPTIVE FELIDS
Ariel Carlson, University of Tennessee

CUTANEOUS MAST CELL TUMORS IN MINIATURE PIGS: A RETROSPECTIVE STUDY
Brittany Rasche, North Carolina State University

GASTRIC MUCOSAL DEGENERATION AND NECROSIS IN PACIFIC LUMPSUCKERS (EUMICROTREMUS PACIFICUS)
Jennifer Landolfi, University of Illinois

SPONTANEOUS OSTEOCARTILAGINOUS LESIONS IN CAPTIVE ENDANGERED PUERTO RICAN CRESTED TOADS (PELTOPRYNE LEMUR)
Samantha Sommer, North Carolina State University

HISTOPATHOLOGY OF FREE-LIVING POPULATIONS OF THREE SPECIES OF FRESHWATER BIVALVES IN INDIANA
Grant Burcham, Purdue University

SINGLE-CELL RNA SEQUENCING OF CANINE KIDNEY ENABLES ESTIMATION OF CELL TYPE ABUNDANCE FROM BULK TISSUE TRANSCRIPTOME IN DIGITAL CYTOMETRY
Candice Chu, Texas A&M University

SPONTANEOUSLY OCCURRING CLONAL HEMATOPOIESIS IN THE CANINE: A NEW TRANSLATIONAL RESEARCH MODEL
Kimberley Sebastian, Michigan State University

FISH HOST SPECIES SUSCEPTIBILITY INFLUENCES MYXOZOAN COMMUNITY COMPOSITION IN PROLIFERATIVE GILL DISEASE OF CATFISH AQUACULTURE
Justin Stilwell, University of Georgia

GLOBAL LEVELS OF DNA METHYLATION, HYDROXYMETHYLATION AND DNMT3A EXPRESSION AS POTENTIAL PROGNOSTIC BIOMARKERS IN CANINE MAST CELL TUMORS
Shahzar Syed, University of Guelph

RETROSPECTIVE ANALYSIS OF LESIONS IN PERDIDO KEY BEACH MICE (PEROMYSCUS POLIONOTUS TRISSYLLEPSIS)
Jessica Elbert, University of Georgia

A 21-YEAR RETROSPECTIVE ANALYSIS OF CORMORANTS SUBMITTED TO ONTARIO/NUNAVUT NODE OF THE CANADIAN WILDLIFE HEALTH COOPERATIVE
Sunoh Che, University of Guelph

NEUROPATHOLOGY OF SYSTEMIC BACTERIAL INFECTION IN DOGS
Dan Rissi, University of Georgia

FELINE LEUKOENCEPHALOMYELOPATHY IN BOBCATS (LYNX RUFUS) IN FLORIDA, UNITED STATES: PATHOLOGY AND POTENTIAL ETIOLOGIES
Rebecca Radisic, Southeastern Cooperative Wildlife Disease Study and University of Georgia

MIRNA PROFILING OF CANINE APPENDICULAR OSTEOSARCOMA
Latasha Ludwig, University of Guelph

HEPATIC LESIONS ASSOCIATED WITH IRON ACCUMULATION IN CAPTIVE KORI BUSTARDS (ARDEOTIS KORI)
Sarah Cudd, Joint Pathology Center

DISORDERS OF THE NERVOUS SYSTEM IN NEW WORLD CAMELIDS (GENERA LAMA, VICUGNA)
Chloe Goodwin, University of Georgia

SPONTANEOUS NEOPLASIA IN FREE-RANGING WHITE-TAILED DEER (ODOCOILEUS VIRGINIANUS) IN THE EASTERN UNITED STATES (1980-2020)
Alisia Weyna, University of Georgia

VACCINE BREAKS? A RETROSPECTIVE STUDY OF CANINE DISTEMPER IN VACCINATED DOGS
Arturo Oliver-Guimera, University of California, Davis

ASSOCIATION OF FEATURES OF MALIGNANCY WITH EXPRESSION OF p16, 14-3-3 σ, E-CADHERIN AND CD44 IN CANINE GASTRIC CARCINOMA
Alexandros Hardas, The Royal Veterinary College

INFECTIOUS CHOLANGIOHEPATITIS IN A CAPTIVE MARMOSET COLONY
Sarah Powers, Johns Hopkins University

AN OUTBREAK OF FELINE INFECTIONOUS PERITONITIS IN CAPTIVE SAND CATS (FELIS MARGARITA)
Michael Martinez, The Ohio State University
N-39*  THE PATHOLOGY AND INCIDENCE OF BUILDING-CAUSED BIRD MORTALITY ON MIDWESTERN UNIVERSITY'S GLENDALE CAMPUS  
Alanna Tonelli-Raylove, Midwestern University  

N-40*  DERMATOPHYTES INDUCE CALPROTECTIN EXPRESSION IN THE FELINE EPIDERMIS  
Alexandra Myers, Texas A&M University  

N-41  IMMUNOPHENOTYPING OF IRIDOCILIARY EPITHELIAL NEOPLASMS IN 21 DOGS  
Allison Gerras, Michigan State University  

*Competitor for the ACVP Young Investigator Award  
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ACVP Veterinary Student Poster Presentations  

SP-01  HERE'S THE TEA ON T CELLS: EQUINE SUPPORTING LIMB LAMINITIS (SLL) IS ASSOCIATED WITH CD3+ T CELL INFILTRATION  
Miranda Starr, University of Pennsylvania  

SP-02  USING TECHNOLOGY TO BRIDGE THE SOCIAL DISTANCING GAPS IN A GLOBAL PANDEMIC  
Christina Stevens, Colorado State University  

SP-03  THE PATHOLOGY AND INCIDENCE OF BUILDING-CAUSED BIRD MORTALITY ON MIDWESTERN UNIVERSITY'S GLENDALE CAMPUS  
Alanna Tonelli-Raylove, Midwestern University  

SP-04  NEURAL HYPERTROPHY AND HYPERPLASIA IN A CASE OF CHRONIC OVINE PANCREATITIS  
Antoine Cournoyer, University of Montreal  

SP-05  COMPARISON OF CYTOLOGIC AND HISTOLOGIC FINDINGS IN NOVEL SUBCUTANEOUS FIBROSARCOMA IN A CAPTIVE CHINCHILLA  
Tessa Brown, University of Illinois, Urbana-Champaign  

SP-06  IDENTIFICATION OF NOVEL HTLV-1 ENV BINDING PARTNERS AND THEIR ROLE IN CELLULAR TRANSFORMATION TROPISM  
Emily King, The Ohio State University  

SP-07  SAMHD-1 MUTATIONS IN FELINE CHRONIC LYMPHOCYTIC LEUKEMIA  
Emma Stacey, Ontario Veterinary College  

SP-08  HISTOPATHOLOGY FOLLOWING CRYOABLATION OF SUBCUTANEOUS CANINE MASSES WITH A NOVEL CARBON DIOXIDE DEVICE  
Emily Garrison, Colorado State University  

SP-10  THE POWER OF PEER MENTORING IN PATHOLOGY AND PANDEMICS  
Billie Ciotti, Midwestern University  

SP-11  GASTRIC NEUROENDOCRINE CARCINOMA IN A BEARED DRAGON (POGONA VITTICEPS)  
Rachel Whitman, University of Florida, Gainesville  

SP-12  SENSITIVITY AND SPECIFICITY OF CYTOLOGY FOR THE DIAGNOSIS OF BACTERIAL SEPSIS IN BODY FLUIDS  
Brittany Allen, The Ohio State University  

SP-13  IMMUNOHISTOCHEMICAL EVALUATION OF CORONAVIRUS AND ROTAVIRUS IN SHEEPS' AND GOATS' BOWELS FROM THE MEXICAN HIGHLANDS.  
Maximiliano Ruiz, Universidad Nacional Autonoma de Mexico  

SP-14  EFFECT OF CONCENTRATED PREPARATIONS VERSUS DIRECT SMEARS ON DIAGNOSIS OF SEPTIC FLUIDS BY VETERINARY STUDENTS  
Veronica Hough, Midwestern University  

SP-15  MYOCARDIAL IBA1, MHC CLASS II, AND CD3 ARE DIFFUSELY INCREASED IN CANINE MYOCARDITIS CASES: A STEP TOWARDS ANTEMORTEM DIAGNOSTICS  
Kristina Vu, Cornell University  

SP-16  METASTATIC GASTRIC CARCINOMA IN AN ALPACA  
Allysa Cole, University of Illinois, Urbana-Champaign  

SP-17  HEPATIC COCCIDIOSIS CAUSED BY EIMERIA STIEDAE IN TWO-MONTH-OLD RABBITS  
Cassandra Barber, Mississippi State University  

SP-18  SINUSITIS AND CONJUNCTIVITIS IN A WILD TURKEY (MELAGRIS GALLOPAVO) ASSOCIATED WITH AVIBACTERIUM BACTERIA  
Jayne Ellis, Colorado State University  

SP-19  CASE REPORT: ECTOPIC LINGUAL AMYLOID PRODUCING ONDONTGENIC TUMOR IN A DOMESTIC SHORTHAIR  
Erin Horn, Tufts University  

SP-20  EIMERIA GILRUTHI: AN UNCOMMON CAUSE OF ABOMASAL COCCIDIOSIS IN THE UNITED STATES  
Elizabeth Hines, Virginia Maryland College of Veterinary Medicine  

SP-21  CONCURRENT CANINE DISTEMPER AND TYZZER'S DISEASE IN A GRAY FOX  
Sarah Jacobson, Texas A&M University  

SP-22  XANTHOMATOSIS IN A YOUNG GOAT  
Katelyn Kimble, Texas A&M University
SP-23  CATHETER-ASSOCIATED AIR EMBOLISM OF THE BRAIN IN A HOSPITALIZED HORSE  
Rachel Hritz, Colorado State University

SP-24  ISCHEMIC NECROSIS OF THE FEMORAL HEAD IN A PIGLET MODEL IS DETECTED BY QUANTITATIVE MRI ONE WEEK AFTER INJURY  
Kayla Chase, University of Minnesota

SP-25  MYCOPLASMA ARGININI CO-INFECTION IN MYCOPLASMA BOVIS PNEUMONIA  
Meghan Domony, University of Guelph

SP-26  MYCOTIC PHARYNGITIS MIMICKING CHROMOBLASTOMYCOSIS IN A HORSE  
Jason Sousa, Texas A&M University

SP-27  DETECTION OF LYMPHOCYTES AND PLASMA CELLS IN FORMALIN-FIXED, PARAFFIN-EMBEDDED TISSUES OF MULTIPLE AVIAN SPECIES USING COMMERCIALLY AVAILABLE ANTIBODIES  
Daniel Gibson, University of Guelph

SP-28  SYMMETRIC DIMETHYLARGININE (SDMA) CORRELATES WITH A PROPOSED HISTOLOGIC GRADING SYSTEM FOR CHRONIC KIDNEY DISEASE IN TIGERS (PANTHERA TIGRIS)  
Blake Andrews, University of Tennessee

SP-29  BOVINE ADENOVIRUS 3 PNEUMONIA IN A WHITE-TAILED DEER FAWN  
Emily Hoskins, Texas A&M University

SP-30  A REVIEW OF AFRICAN PENGUIN (SPHENISCUS DEMERSUS) CHICK PATHOLOGY AT THE MARYLAND ZOO  
Alene Pohly, Tufts University

SP-31  FIVE NETWORKING TIPS FOR STUDENTS ON THE PATH TO VET PATH  
Amy Richardson, University of Liverpool

SP-32  DEVELOPMENT OF A DEEP LEARNING METHOD FOR DISCRIMINATING ANTERIOR NASAL CAVITY DEGENERATIVE, REGENERATIVE, AND INFLAMMATORY LESIONS IN THE RAT  
Samuel Neal, Charles River Laboratories

SP-33  QUANTIFYING EPIDERMAL CHANGES OF NAÏVE AND SUBSEQUENT AMBLYOMMA AMERICANUM BITE LESIONS OF DOGS AND CATS  
Alexis Hawton, Oklahoma State University

SP-34  GROSS, HISTOPATHOLOGIC AND RADIOGRAPHIC LESIONS ASSOCIATED WITH LAMENESS IN SOWS EUTHANIZED FOR LAMENESS  
Nathan Fanzon, University of Pennsylvania

SP-35  "LUMPY JAW", PNEUMONIA, AND SEPTIC MYOCARDITIS DUE TO ACTINOMYCES SPP. IN A SUGAR GLIDER (PETRAURUS BRAVICEPS)  
Amanda Smith, Oklahoma State University

SP-36  PORCINE SAPELOVIRUS – CORRELATION OF HISTOPATHOLOGY AND VIRAL AGENT DETECTION VIA CHROMOGENIC IN SITU HYBRIDIZATION  
Kate Alucard, Iowa State University

SP-37  A COMPARATIVE STUDY OF PAIN-RELATED BIOMARKER EXPRESSION IN SENSORY NEURONS IN THE DOG AND RABBIT  
Calandra Chuback, University of Wisconsin, Madison

SP-38  IRON OVERLOAD: SEMIQUANTITATIVE HISTOLOGIC EVALUATION OF HEPATIC HEMOSIDEROSIS IN CHLOROCEBUS AETHIOPS SEBAEUS  
Samantha Zayas, Ross University School of Medicine

SP-39  MULTI-REGIONAL PHYLOGENETIC CHARACTERIZATION OF SKUNK AMDOPARVOVIRUS (SKAV)  
Maya Schlesinger, University of California, Davis

SP-40  HOW CRITICAL IS IT TO PERFORM A MANUAL PLATELET CONCENTRATION ESTIMATE IN THE EXACT MONOLAYER OF A BLOOD SMEAR  
Luke Cherry, Royal Veterinary College

SP-41  INCIDENTAL NEUTROPENIA IN CATS  
Elizabeth Snyder, University of Pennsylvania

SP-42  LARYNGO-TRACHEO-ESOPHAGEAL CLEFT IN A QUARTER HORSE FOAL  
Jana Gigliotti, Kansas State University

SP-43  CHARACTERIZATION OF CANNABINOID RECEPTOR EXPRESSION IN CANINE TISSUES AND PBMCs VIA IMMUNOHISTOCHEMISTRY AND FLOW CYTOMETRY  
Clare Brown, Mississippi State University

SP-44  HOW DOES WEIGHT LOSS AFFECT INFLAMMATION IN THE OBESE MURINE MAMMARY GLAND?  
Brittney Moore, University of Wisconsin, Madison

SP-45  CANTHARIDIN TOXICOSIS IN TWO HORSES FOLLOWING BLISTER BEETLE INGESTION  
Caroline Coussens, Mississippi State University

SP-46  IDENTIFICATION OF A PAPILLOMAVIRUS IN A MALLARD DUCK WITH MULTIPLE MESENCHYMAL DERMAL TUMORS WITH CARTILAGINOUS DIFFERENTIATION  
Claire Rosenbaum, University of Minnesota
| SP-47 | MYXOID TUMOR OF THE PENIS IN A LABRADOR RETRIEVER  
|       | Katherine Bauer, Tufts University |
| SP-48 | MANNHEMIA HAEMOLYTICA RESPIRATORY DISEASE IN MATURE DAIRY COWS  
|       | DeLenn Burrows, University of Guelph |
| SP-49 | RETROSPECTIVE ANALYSIS OF VETERINARY LEGAL NECROPSY CASES FROM JULY 2019 TO JULY 2020 IN CORPAVET, COLOMBIA  
|       | Heysen Castro, Universidad del Tolima |
| SP-50 | INVESTIGATING CROSS-REACTIVE ANTIBODIES TO SARS-COV-2 IN BCG-VACCINATED MICE  
|       | Aubrey Specht, Tufts University |
| SP-51 | BALD EAGLE MORBIDITY AND MORTALITY IN THE SOUTHEASTERN UNITED STATES: A FIVE-YEAR RETROSPECTIVE  
|       | Aidan O'Reilly, University of Georgia |
| SP-52 | HEMATOLOGICAL AND PARASITOLOGICAL FINDINGS IN DOGS OWNED BY HOMELESS PEOPLE FROM BRAZIL  
|       | Ana Moura, Universidade Federal Fluminense |
| SP-53 | HISTOPATHOLOGIC FINDINGS IN NECROPSY CASES WITH COCCIDIOIDES SPP. INFECTION  
|       | Alice Wang, Midwestern University |
| SP-54 | COSTIMULATORY CHECKPOINT MOLECULE OX40 COMBINATION THERAPY AS A TREATMENT FOR CANINE SOLID TUMORS  
|       | Leone Hopkins, Colorado State University |
| SP-55 | DETECTION AND CHARACTERIZATION OF PARAPROTEINEMIA IN CANINE B CELL CHRONIC LYMPHOCYTIC LEUKEMIA USING ROUTINE AND FREE LIGHT CHAIN IMMUNOFIXATION  
|       | Erik Gary, Colorado State University |
| SP-56 | CHARACTERIZING THE ASSOCIATION OF PROTEINURIA WITH DENTAL DISEASE IN DOGS AND CATS  
|       | Sydney Hastain, Midwestern University |
| SP-57 | IDENTIFICATION AND USE OF IHC TO CHARACTERIZE GIST IN A WHITE-SPOTTED BAMBOO SHARK WITH CONCURRENT GOITER  
|       | Adam Moreno, Ohio State University |
| SP-58 | PULMONARY AND MESOTHELIAL NEOPLASIA IN A CAPTIVE LION (PANTERA LEO LEO)  
|       | Chloe Bening, Texas A&M University |
| SP-59 | PRESumptive BASOPHILIC LEUKEMIA IN A MINIATURE PIG  
|       | Sidney Beecy, Tufts University |
| SP-60 | IDENTIFICATION OF MYCOBACTERIUM SPP. IN CANINE CEREBROSPINAL FLUID  
|       | Kyra Campbell, University of Missouri |
| SP-61 | MULTICENTRIC LYMPHOMA PRESENTING AS SCOLIOSIS IN A JUVENILE MALE BLUEGILL (LEPOMIS MACROCHIRUS)  
|       | Abigail Taylor, University of Wisconsin, Madison |
| SP-62 | IONOPHORE TOXICITY IN QUAILS  
|       | Brooke Croel, Kansas State University |
| SP-63 | WEST NILE VIRUS INFECTION-INDUCED DERMATITIS IN A JUVENILE FLAMINGO  
|       | William Weng, Kansas State University |
| SP-64 | RETROSPECTIVE ANALYSIS OF LABORATORY DATA AS PROGNOSTIC FACTORS FOR SURVIVAL IN CANINE SPLENIC HEMANGIOSARCOMA  
|       | Erin Paul, Purdue University |
| SP-65 | GOING BATTY: CAUSE OF DEATH IN BATS IN BRITISH COLUMBIA, CANADA  
|       | Delaney Schofer, BC Ministry of Agriculture and Canadian Wildlife Health Cooperative |

**ACVP Late-Breaking Poster Presentations**

| LB-01 | CLINICAL AND PATHOLOGICAL FEATURES OF ACUTE BOVINE LIVER DISEASE (ALBD)  
|       | Eve Manthorpe, University of Adelaide |
| LB-02 | TOLERANCE OF AMBIGUITY IN VETERINARY PATHOLOGISTS AND PATHOLOGY TRAINEES  
|       | Nicole Fernandez, University of Saskatchewan |
| LB-03 | SPONTANEOUS AUTOIMMUNE-MEDIATED ALOPECIA IN OUTBRED FEMALE SWISS WEBSTER MICE: A NOVEL MOUSE MODEL OF ALOPECIA AREATA  
|       | Sarah Kitz, Memorial Sloan Kettering Cancer Center |
| LB-04 | PRESumptive URINARY BLADDER SECRETORY B-CELL LYMPHOMA WITH AN IGG MONOCLONAL GAMMOPATHY AND BENCE-JONES PROTEINURIA IN A DOG  
|       | Christina Jeffries, Colorado State University |
| LB-05 | A SEVERE CASE OF INFLAMMATORY LINEAR VERRUCAOUS EPIDERMAL NEVUS (ILVEN) IN A CHIHUAHUA MIX DOG  
|       | Silvia Carnaccini, University of Georgia |
| LB-06 | VALIDATION OF A POINT-OF-CARE BENCHTOP ANALYZER FOR QUANTITATIVE MEASUREMENT OF C-REACTIVE PROTEIN IN CANINE SERUM AND PLASMA  
|       | Sara Connolly, University of Illinois, Urbana-Champaign |
LB-07
MYCOBACTERIUM MICROTI INFECTION IN WILD BOAR (SUS SCROFA): EFFECT OF DIFFERENT HISTOLOGICAL FEATURES ON GRANULOMA MATURATION AND M. MICROTI MICROBIOLOGICAL ISOLATION
Claudio Pigoli, Universita degli Studi di Milano

LB-08
IMMUNOPHENOTYPIC CHARACTERIZATION OF CANINE LYMPHOID NEOPLASMS BY CYTOLOGICAL EXAMINATION FOLLOWED BY IMMUNOFLOUORESCENCE
Mateus Cedro, Federal University of Bahia

LB-09
FATAL PARAQUAT TOXICITY IN DOGS
Alex Mau, Ross University School of Veterinary Medicine

LB-10
DETECTION OF E26 TRANSFORMATION-SPECIFIC SEQUENCE VARIANT 1 (ETV1) mRNA EXPRESSION IN CECAL CANINE GASTROINTESTINAL STROMAL TUMORS BY IN-SITU HYBRIDIZATION
Joao Cavasin, Cornell University

LB-11
PATHOLOGICAL AND EPIDEMIOLOGICAL STUDY OF 46 CASES OF BLADDER TRANSITIONAL CELL CARCINOMA IN DOGS
Veronica Mollica Govoni, Sao Paulo State University -- UNESP

LB-12
SARS-COV2 IN DOMESTIC CATS INDUCES LUNG PATHOLOGY DESPITE CLEARANCE OF VIRUS AND MINIMAL CLINICAL SIGNS
LaTasha Crawford, University of Wisconsin, Madison

LB-13
NEW IMMUNOASSAYS FOR THE DETECTION OF THE MOST COMMON FELINE SERUM AMYLOID A (SAA) VARIANTS
Karina Seferian, HyTest Ltd.

LB-14
UNTARGETED METABOLOMICS INVESTIGATION FOR FELINE HYPERTROPHIC CARDIOMYOPATHY-ASSOCIATED METABOLIC ALTERATIONS
Vanessa Wikel, Cornell University

LB-15
IN VITRO VALIDATION OF PROTEIN GERANYLGERANYLATION AS A PHARMACOLOGICAL TARGET FOR THE TREATMENT OF CANINE MAMMARY GLAND TUMORS
Anne-Laurence Vigneau, Universite de Montreal

LB-16
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