



2025 ACVP Annual Meeting Program

**as of July 3, 2025*

Friday, October 24

5-8pm

Meeting Registration open

5-8pm

Speaker Ready Room open

Saturday, October 25

7am-7pm

Speaker Ready Room open

7am-7:30pm

Meeting Registration open

7:30am-12:30pm

ACVP Primate Workshop: Spontaneous and Experimental Pathology of the Urinary System in Non-Human Primates (NHP)

**Additional fee required*

Chairs: Sushan Han, DVM PhD DACVP (AP); Katherine Olstad, DVM DACVP (AP); Mary Duncan, BVMS PhD DACVP (AP); Matthew Starost, DVM PhD DACVP (AP); Forgivemore Magunda DACVP (AP)

This workshop will include four expert keynote speakers. Dr. Cianciolo will open with a primer on the pathological approach to urinary tract diseases in NHP and other species, with a deeper dive into toxicological pathology and translational medicine with Dr. Farris discussing renal transplant pathology in NHP models, and Dr. Gonzalez discussing renal aging in a marmoset model. Dr. Lewis will round out the workshop with spontaneous and experimental diseases in non-human primates. Please note: Due to time limitations, this year's primate workshop will not include afternoon case presentations.

7:30-7:40am

Welcome

7:40-8:40am

Pathology of the Urinary System in Primates

Rachel E. Cianciolo, VMD PhD DACVP (AP)

Zoetis Reference Labs and Niche Diagnostics, LLC.

8:45-9:45am

Nonhuman Primate Kidney Allotransplantation and Porcine Xenotransplantation: A Multimodal Collaboration to Alleviate Chronic Disease

Alton Farris, MD MBA
Emory University

9:45-10:10am

Break

10:15-11:15am

Marmoset Renal Pathology: Age-Related Changes and Select Systemic Disease

Olga Gonzalez, DVM DACVP (AP)
Texas Biomedical Research Institute Southwest National Primate Center

11:20am-12:20pm

Spontaneous Pathology of the Urinary System of Nonhuman Primates

Anne D. Lewis, DVM PhD DACVP (AP)
Oregon National Primate Research Center, Oregon Health and Science University

12:20-12:30pm

Closing

8am-12pm, 1:30-5pm

ACVP Pathology Informatics Workshop: Automated Image Analysis Using Machine Learning

**Additional fee required*

Chairs: Christof Bertram, PhD DACVP (AP); Frauke Wilm, Dr Ing

This workshop provides a gentle introduction and first hands-on experience on the use of artificial intelligence for automated analysis of histological (primary focus) and cytological images. It is intended for pathologists with little prior experience. Subsequent to a general introduction into Machine Learning, an interactive step-by-step tutorial of developing a Machine Learning model (task of the model, creation of the dataset, training and testing the model) will be given for the relevant pattern recognition tasks (classification, regression, object detection, and segmentation).

8-8:15am

Welcome

8:15-9:15am

Pattern Recognition Tasks Relevant for Microscopy Images & Dataset Creation

Frauke Wilm, Dr Ing
Friedrich-Alexander University of Erlangen-Nuremberg, MIRA Vision Microscopy GmbH

9:15-9:30am

Break

9:30-10am

Pattern Recognition Tasks and Performance Metrics Relevant for Microscopy Images

Saturday, October 25

Christof Bertram, PhD DACVP (AP)
University of Veterinary Medicine Vienna

10-10:45am

Dataset Creation and Software Demonstration

Christof Bertram

11-11:40am

Tutorial 1: Classification

Frauke Wilm, Christof Bertram

11:40am-12pm

Tutorial 2: Regression

Frauke Wilm

Christof Bertram

12-1:30pm

Break

1:30-2:15pm

Tutorial 3: Object Detection

Frauke Wilm, Christof Bertram

2:15-2:40pm

Tutorial 4: Segmentation (Anisokaryosis in ccMCT)

Frauke Wilm, Christof Bertram

2:40-3pm

Generalization Performance and Domain Shift

Frauke Wilm, Christof Bertram

3-3:15pm

Break

3:15-5pm

Demonstration of Further Deep Learning-Based Automated Image Analysis Solutions From Recent Research

3:15-3:45pm

Example 1

Judit Magnusson Wulcan, DVM MSc DACVP (AP)
University of California, Davis

3:50-4:20pm

Example 2

Samuel Neal, DVM
The Ohio State University

4:25-4:55pm

Example 3

Gillian Beamer, VMD PhD DACVP (AP)
Johnson & Johnson

8am-12pm, 1:30-5pm

American Society for Veterinary Clinical Pathology Workshop: Clinical Pathology in Drug Development, From Small Molecules to Big Biologics

**Additional fee required*

Chairs: Laura Cregar, DVM DACVP (CP); Tara Arndt, DVM DACVP (AP, CP)

This workshop will introduce toxicologic clinical pathology in drug development, with an overview of traditional and novel therapeutic modalities in both human and veterinary medicine. Experts from industry and CROs will introduce key concepts in drug development and toxicologic pathology, principles of data interpretation and histopathologic correlates. The workshop will also highlight anticipated effects for select drug modalities and will conclude with a Q&A panel.

8-8:20am

Welcome

8:20-9:10am

Introduction to Drug Development

Susan G. Emeigh Hart, VMD PhD DACVP (AP, CP) DABT ERT
Venatorx Pharmaceuticals

9:20-10:10am

Intro to Tox Path: Principles of Data Interpretation and Histo Correlates

Tara Arndt, DVM DACVP (AP, CP)
Alta Sciences

12-1:30pm

Break

1:10-1:50pm

Clinical Pathology of Adeno-Associated Viral Vectors for Gene Therapy

Madhu Sirivelu, DVM PhD DACVP (CP)
Novartis

2:10-3pm

Pathology Class Effects: Glucagon-Like Peptide-1 Receptor Agonists

A. Eric Schultze, DVM PhD DACVP (CP) FIATP
Lilly Research Laboratories

3:30-4:20pm

Clinical Pathology Class Effects: Antibody Drug Conjugates

Kirstin Barnhart, DVM PhD DACVP (CP)
MBrace

Saturday, October 25

4:30-5pm

Q&A

8am-11:30am, 1-5pm

Davis-Thompson Foundation Workshop: Tumors of the Nervous System

**Additional fee required*

Chair: Kelsey Fiddes, DVM DACVP (AP) DACVPM

Five speakers will present a workshop based on material from the upcoming volume of the series, Surgical Pathology of Tumors of Domestic Animals: Tumors of the Nervous System. This workshop will target veterinary students, interns, residents, and anatomic pathologists involved in diagnostics. It will be organized into presentations and registrant interaction through case-based quizzes. Presentations will illustrate the approach and diagnostic features of different nervous tumors and their main differential diagnoses.

8-9am

Primary CNS Neoplasms: Meningeal Tumors

Elena Demeter, DVM PhD DACVP (AP)

Cornell University College of Veterinary Medicine

9-10am

Primary CNS Neoplasms: Glial Tumors

Andrew Miller, DVM DACVP (AP)

Cornell University College of Veterinary Medicine

10-10:30am

Break

10:30-11:30am

Primary CNS Neoplasms: Choroid Plexus and Round Cell Tumors

Daniel Rissi, DVM MS PhD DACVP (AP)

University of Georgia College of Veterinary Medicine

11:30am-1pm

Break

1-2pm

Primary CNS Neoplasms: Other Tumors and Tumor-Like Lesions

Brian Porter, DVM DACVP (AP)

Texas A&M University College of Veterinary Medicine

2-3pm

Primary Peripheral Nervous System neoplasms

Andrew Miller

3-3:15pm

Break

Saturday, October 25

3:15-4pm

Secondary Nervous System Tumors

Jey Koehler, DVM PhD DACVP (AP)
Auburn University College of Veterinary Medicine

4-5pm

Tumor Histology Quiz

Elena Demeter

1:30-5pm

ACVP Forensic Pathology Workshop: Anatomy of a Criminal Investigation

**Additional fee required*

Chairs: Adam W. Stern, DVM DACVP (AP) Founding Fellow VFP; Eileen Roy-Zokan, MS PhD; Adam Leath, MS

In this year's forensics workshop, attendees will learn about the fundamentals of how law enforcement investigates animal cruelty and other crimes against animals. Lectures will cover basic criminal investigation techniques, documentation of animal and non-animal evidence, and basic evidence collection techniques. Attendees will apply these basic concepts using a variety of hands-on activities.

Workshop Speakers

Adam Leath, MS
Jacksonville Humane Society

Adam Stern, DVM DACVP (AP)
University of Florida

Eileen Roy-Zokan, PhD
Florida Fish and Wildlife Conservation Commission

3:30-5pm

Meet the Pathologists

Chairs: Heather Shive, DVM PhD DACVP (AP); Mark Simpson, DVM PhD DACVP (AP)

Join us for an informative and insightful discussion on careers in veterinary pathology from established or earlier career ACVP members representing diverse sectors and disciplines. Panelists will introduce their careers, discuss their paths, and describe how they benefit society in a variety of meaningful ways, with attendees welcome to pose questions on these topics and the roles for pathologists in various arenas. This informal exchange is designed for veterinary students considering a career in veterinary pathology as well as pathologists/pathologists-in-training thinking about how to navigate their professional trajectories.

Panelists

Oded Foreman, DVM DACVP (AP)
Genentech

Amanda Koehne, DVM PhD DACVP (AP)
Fred Hutch Cancer Center

Saturday, October 25

Maxey Wellman, DVM MS PhD DACVP (CP)
The Ohio State University

5:30-7pm

Exhibit Hall open

Welcome Celebration

Veterinary student poster viewing with authors present, and exhibit booths first look!

All meeting attendees are invited and welcome to participate in the kick-off of the 2025 Annual Meeting.

Interact with veterinary students presenting scientific posters and visit our exhibitors to find out more about vet path products and services. A complimentary drink of your choice and light snacks will be offered with the intent for colleagues to make dinner plans on their own, post-celebration!

Saturday, October 25

Sunday, October 26

6:30am-6:30pm

Meeting Registration open

6:30-7:30am

Yoga Flow with Katherine & Meditation with Sue

Chairs: Katherine Gibson-Corley, DVM PhD DACVP (AP); Julie Engiles, DVM DACVP (AP); Sue Knoblauch, DVM DACVP (AP); Leslie D. Wilson, DVM PhD DACVP (AP)

Fellow Diplomates, Katherine and Sue, will lead this in-person all levels vinyasa yoga flow session designed to strengthen and stretch the entire body with an emphasis on the breath, followed by meditation. Everyone is welcome!

7am-6pm

Speaker Ready Room open

7-8am

Sunrise Poster Viewing: Diagnostic Pathology

Coffee and tea available.

7-9am

Veterinary Student Breakfast

**For veterinary students*

Chairs: Abigail Armwood, DVM PhD DACVP (AP)

The ACVP Student Engagement Committee invites all veterinary students attending the 2025 Annual Meeting to join us for a breakfast and networking event, featuring the first annual Pathletes competition. This fun and interactive event offers students the opportunity to connect with committee pathologists, enjoy breakfast, and win prizes. During the event, we will also celebrate various achievements by announcing the Veterinary Student Poster Awards and recognizing the 2025 Mentor of the Year. Pathletes is a new, inter-institutional, trivia-style competition focused on pathology knowledge.

8am-12pm

Opening Plenary: Insights Into Aging: Explorations of Space Biomedicine, Systems Biology, and Animal Models

Chairs: Melissa Schutten, DACVP (AP); Robert Adam Harris, DACVP (CP)

Biological aging is a multifactorial process influenced by genetic, epigenetic, and environmental factors. Aging impacts a variety of physiological functions, such as cognitive, metabolic, cardiovascular, and immune, as well as susceptibility to diseases such as cancer. In this session, speakers will cover a wide variety of topics including the effects of microgravity and radiation in a space environment on physiological systems to the comparative pathology of canine cognitive dysfunction as well as applications of these insights to human and veterinary medicine. Through integration of complex data generated from both experimental and natural disease models,

Sunday, October 26

our current understanding of age-related diseases grows exponentially. The goal, ultimately, is to use this information to improve the health and wellness of humans and animals throughout their lives.

8-8:05am

ACVP Presidential Welcome

Rachel Reams, DVM PhD DACVP (AP)

8:05-8:55am

Space Medicine and the Future of Human Exploration

Afshin Behershti, PhD

University of Pittsburgh

9:45-10:15am

Break

10:15-11am

Clinical and Behavioral Manifestations of Cognitive Decline in Aging Dogs: Implications as a Model of Neurodegenerative Disease

Stephanie McGrath, DVM MS DACVIM (neurology)

Colorado State University College of Veterinary Medicine

1-11:45am

Understanding the Interplay Between Pathological Peptides and Glial Activation in Geriatric Canines With Cognitive Dysfunction

Julie Moreno, PhD

Colorado State University College of Veterinary Medicine

11:45am-12pm

Q&A

9:45-10:15am

Education Break with Diagnostic Pathology Poster Authors Present

Coffee and tea available.

9:45am-3:30pm

Exhibit Hall open

Diagnostic Pathology poster viewing

12:15-1:15pm

Veterinary Student Platform Session

Chairs: Michael Rosser, DVM MS DACVP (CP); Santhi Sridharan, BVSc MVSc PhD MVetSc DACVP (AP)DABT

This session will feature platform presentations from selected veterinary students, showcasing case reports and research projects across three categories: diagnostic pathology, natural diseases, and experimental diseases.

Sunday, October 26

1:30-5pm

Reproductive Pathology: Genital Pathology and Failure of Pregnancy

Chairs: Robert Foster BVSc PhD MANZCVS DACVP (AP); Fabio Del Piero, DVM PhD MS DACVP (AP)

The objective of this session is to provide information and details on a practical approach to anomalies of the reproductive system (disorders of sexual development) and ovarian neoplasms, so that logic can be used to solve problems and diagnostic dilemmas. The latest and updated information on controversial and difficult subjects involving uterine pathology, and important causes and lesions related to failure of pregnancy will be presented.

1:30-2:05pm

Male and Female Gonadal Disease Is Explained by Developmental Biology

Robert Foster, BVSc PhD MANZCVS DACVP (AP)

University of Guelph

2:05-2:45pm

Uterine Diseases Including Endometrial Biopsy

Christopher Premanandan, DVM PhD DACVP DACT (AP)

The Ohio State University

2:45-3pm

Q&A

3-3:30pm

Break

3:30-5pm

Abortion and Perinatal Losses in Horses and Ruminants

Fabio Del Piero, DVM PhD MS DACVP (AP)

Louisiana State University

1:30-5pm

Veterinary Forensic Pathology: Working Together Within the Forensic Investigation

Chairs: Tabitha Viner, DVM DACVP (AP); Nanny Wenzlow, DMV MRCVS PhD DACVP (AP)

Session topics will focus on collaborative work within the veterinary forensic world where multiple entities and experts with different skill sets work collaboratively in order to get justice for the animal victims of cruelty or unlawful killing. The presentations will illustrate the beneficial interactions between pathologists, clinical veterinarians, animal control officers, lawyers and other professionals, where each player completes a different yet important role.

1:30-1:45pm

From Feathers to Fangs and All In-Between: Forensic Insight into Exotic and Wildlife Mortality

Kali Griffith, DVM

UGA College of Veterinary Medicine

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1:45-2:30pm

From Crime Scene to Disposition: Case Studies in Successful Prosecutions and Demystifying the Collaborative Roles of Partners

Jill Hollander

Fulton County District Attorney's Office

Doris Miller, DVM PhD DACVP (AP)

University of Georgia

2:30-3pm

Independent Veterinary Forensic Pathology Collaboration with Washington State Animal Control

Sam Moore

Washington State Animal Fighting Task Force

Christine Watson, DVM MS DACVP (AP)

Ledgerock Veterinary Pathology

3-3:30pm

Break

3:30-4pm

From Crisis to Coordination: Case-Based Reflections on Veterinary Forensic Collaboration in Taiwan

Wei-Hsiang Huang, DVM PhD

National Taiwan University

4-4:30pm

Dissecting Veterinary Forensics Through Interdisciplinary Lenses

Elizabeth Pearlman, DVM

American Society for the Prevention of Cruelty to Animals

Nanny Wenzlow, DMV MRCVS PhD DACVP (AP)

Texas Tech University, School of Veterinary Medicine

4:30-5pm

Cross Disciplinary Cruelty Investigations in South Louisiana

Wendy Wolfson, DVM

Louisiana State University School of Veterinary Medicine

1:30-5pm

Clinical Pathology Focused Scientific Session I

Chairs: Samantha Evans, DACVP (CP); Lisa Schlein, DACVP (CP)

1:30-5pm

Diagnostic Pathology Focused Scientific Session I

Chairs: Ian Hawkins, DACVP (AP); Pedro Pinczowski, DACVP (AP)

Sunday, October 26

3-3:30pm

Education Break with Diagnostic Pathology Poster Authors Present

Coffee and tea available.

3:30-5:30pm

Veterinary Students and Residents Forum

**For veterinary students and program representatives*

Chairs: Chloe Goodwin, DVM DACVP (AP); Abigail Armwood, DVM PhD DACVP (AP)

The Forum offers an opportunity for current training program residents and faculty to showcase their programs to interested veterinary students. The event offers veterinary students an opportunity to meet face-to-face with current program trainees and faculty in a relaxed atmosphere, to learn about each program. Current residents and faculty will represent their program at their designated table and will chat with interested veterinary students about their programs and experiences.

5:30-7pm

ACVP Business Meeting

**ACVP members only*

Chair: ACVP President Rachel Reams, DVM PhD DACVP (AP)

All ACVP members are invited and encouraged to attend the ACVP Business Meeting. This annual meeting is led by the ACVP President providing an overview of ACVP activities/updates. Reports on the meeting agenda include the Treasurer's Report, *Veterinary Pathology* Journal Report, Strategic Plan Report (including training program accreditation, competency framework, and academic pipeline), and the Certification and Examination Council Report.

7-9pm

Neuropathology Mystery Slide Session

Chair: Andrew Miller, DVM DACVP (AP)

The mystery neuropathology session has been a mainstay at the annual ACVP meeting dating back close to four decades. Cases will be presented and discussed further by a panel of expert veterinary neuropathologists. **Case histories and slides will be posted on acvp.org in October for registrant review before attending the session.* Attendees are offered a complimentary drink of choice. (Additional drinks available for purchase.)

Sunday, October 26

Monday, October 27

6:30-7:30am

Yoga Flow & Meditation with Julie

Chairs: Katherine Gibson-Corley, DVM PhD DACVP (AP); Julie Engiles, DVM DACVP (AP); Sue Knoblauch, DVM DACVP (AP); Leslie D. Wilson, DVM PhD DACVP (AP)

Fellow Diplomate, Julie, will lead this in-person all levels vinyasa yoga flow session designed to strengthen and stretch the entire body with an emphasis on the breath, followed by meditation. Everyone is welcome!

7am-5pm

Meeting Registration open

7am-6pm

Speaker Ready Room open

7-8am

Sunrise Poster Viewing: Clinical Pathology, Experimental Disease, Industrial and Toxicologic Pathology, and Natural Disease

Coffee and tea available.

7-8am

Pathology Trainee Networking Breakfast

**For pathology trainees*

Chair: Molly Church, MS VMD PhD DACVP (AP)

Hello pathology trainees! Please join us for a networking event open to trainees interested in connecting to ACVP members from a number of different job sectors at various points in their careers. Interested in a career in academia? Have questions about what it's like to work for a pharmaceutical company? Come talk and engage with pathologists who have worked in these sectors and love what they do. Trainees are encouraged to register for this no-cost for this event when registering for the Annual Meeting. Space may be limited, so register soon!

8am-12pm

AI Applications for Veterinary Pathology - Current Flaws and Challenges

Chairs: Helena Vogel, DVM DACVP (AP); Christof Bertram, PhD DACVP (AP)

Artificial intelligence (AI) is rapidly transforming veterinary pathology by enhancing diagnostic accuracy, efficiency, and workflow automation. However, integrating AI into pathology workflows presents significant challenges, including dataset bias, robust performance evaluation, generalization issues due to domain shift, and complexities in human-computer interaction. This session aims to critically explore these challenges and promote the safe and effective implementation of AI in veterinary pathology.

Monday, October 27

8-8:10am

Welcome

8:10-8:40am

AI in Veterinary Pathology: What Is Holding Us Back?

Judit Magnusson Wulcan, DMV MSc DACVP (AP)

University of California, Davis

8:40-9:15am

Garbage In, Garbage Out: How Detrimental Is Dataset Bias?

Christof Bertram, PhD DACVP (AP)

University of Veterinary Medicine Vienna

9:15-9:45am

Seeing Isn't Believing: The Biases and Limits of Visual Performance Control

Gillian Beamer, VMD PhD DACVP (AP)

Johnson & Johnson

9:45-10:15am

Break

10:15-10:48am

Tailor-Made: A Perfect (Over)Fit to My Lab, but What About Others?

Frauke Wilm Dr Ing

Friedrich-Alexander University of Erlangen-Nuremberg, MIRA Vision Microscopy GmbH

10:48-11:21am

A Black Box Tool: How to Ensure a Reliable and Liable Application

Alekandra Zuraw, DVM PhD DACVP (AP)

Charles River

11:21am-12pm

Panel Discussion

8am-12pm

Current Topics in Clinical Pathology: Digital Cytopathology Quality Guidelines and the ROSE Diagnostic Paradigm

Chair: Kendal E. Harr, DVM MS DACVP (CP)

We'll explore the current state of the American Society for Veterinary Clinical Pathology's Digital Cytopathology Quality Guidelines including validation, basic hardware and software specifications, and training to prepare the digital workforce. A practicing cytopathologist (CAP/ASC) will discuss the validation of a rapid on-site cytopathology system (ROSE) in use in hospitals in Pennsylvania. The evidence-based ROSE reporting paradigm will be compared to current strategies in veterinary medicine. Come join the brainstorming session on how we can work together to generate similar evidence-based diagnostic keys.

Monday, October 27

8-8:10am

Introduction - ASVCP Digital Cytopathology Quality Guidelines

Kendal Harr, DVM MS DACVP (CP)

Pfizer, Inc.

8:10-8:35am

Preanalytical Requirements - ASVCP Digital Cytopathology Quality Guidelines

Kendal Harr

8:45-9:45am

What to Know in the New Digital Pathology Workflow: Focus on Total Workflow Validation

Sarah Monaco, MD CAP

Geisinger Commonwealth School of Medicine

9:45-10:15am

Break

10:15-11am

Rapid Offsite Evaluation Challenges and Digital Solutions

Sarah Monaco

11am-12pm

Training Residents and Pathologists and Tips and Tricks on Archiving Digital Cytopathology

A. Russell Moore, DVM MS DACVP (CP)

Colorado State University

8am-12pm

Enriching Residency Training Through Program Accreditation, Competency-Based Framework, and Structured Remediation

Chair: Amy C. Durham, MS VMD MEd DACVP (AP); Tamara S. Hancock, DVM MS, DACVP (CP) PhD; Rebecca Hellmann, DO, MEd

This education session will have three interrelated sections, followed by an interactive discussion: (1) Training Program Accreditation: How the four standards of the ACVP accreditation program enhance resident learning; (2) Competency-Based Veterinary Education in Pathology Training: The use of the framework and accompanying rubric in trainee assessment and feedback; (3) Remediation of the Struggling Resident Learner: The approach in designing an early intervention, coaching, and remediation program for residents. The session will conclude with a Q&A/round table discussion designed to support attendees with how to use the information they received during the entire session.

8-9am

Training Program Accreditation: How the Four Standards of the ACVP Accreditation Program Enhance Resident Learning

Amy Durham, MS VMD MEd DACVP (AP)

University of Pennsylvania School of Veterinary Medicine

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9-9:45am

Competency-Based Veterinary Education in Pathology Training: The Use of the Framework and Accompanying Rubric in Trainee Assessment and Feedback

Tamara Hancock, DVM MS DACVP (CP) PhD

University of Missouri College of Veterinary Medicine

9:45-10:15am

Break

10:15-10:30am

Q&A

Amy Durham

Tamara Hancock

10:30-11:20am

Remediation of the Struggling Resident Learner: The Approach in Designing an Early Intervention, Coaching, and Remediation Program for Residents

Rebecca Hellmann, DO MEd

Weill Cornell Medical College, Cornell University

11:20am-12pm

Panel Discussion

8am-12pm

Diagnostic Pathology Focused Scientific Session II

Chairs: Ian Hawkins, DACVP (AP); Pedro Pinczowski, DACVP (AP)

9:45-3:30pm

Exhibit Hall open

Clinical Pathology, Experimental Disease, Industrial and Toxicologic Pathology, and Natural Disease poster viewing

9:45-10:15am

Education Break with Clinical Pathology, Experimental Disease, Industrial and Toxicologic Pathology, and Natural Disease Poster Authors Present

Coffee and tea available.

12-2:30pm

LCPG Education Session and Business Meeting: Case Presentations and Bone and Joint Pathology

Chair: Melissa Macias Rioseco, DVM PhD DACVP (AP); Francisco Carvallo, DVM DSc DACVP (AP)

The Latin Comparative Pathology Group (LCPG) offers a session (in English) providing educational and networking opportunities for all pathologists. The session will begin with the discussion of two diagnostic cases presented by trainees (residents or graduate students) followed by a lecture by Dr. Linden Craig on bone and

Monday, October 27

joint pathology. and will conclude with the LCPG annual business meeting, which will take place in the same room. Both the scientific presentations and the business meeting are open to everyone. The LCPG Business Meeting will follow immediately after the education.

12-12:30pm

Case Presentations

12:30-1:30pm

Bone and Joint Pathology

Linden Craig, DVM PhD DACVP (AP)

University of Tennessee

1:30-2:30

LCPG Business Meeting

Francisco Carvallo, DVM DSc DACVP (AP)

Virginia Maryland College of Veterinary Medicine

12:15-1:15pm

Emerging Disease Session

Chair: Pompei Bolfa, DVM MSc PhD DACVP (AP)

African swine fever virus has not been detected in the United States; however, it has recently been detected on the islands of Haiti and the Dominican Republic which makes surveillance efforts critical to ensure if the virus does enter the United States, it is detected quickly and is contained. Diagnostic pathologists working at state, university, and federal laboratories are on the front line of this effort and are most likely to see the first cases of ASF in an incursion. It is critical that pathologists recognize the lesions, perform proper testing, and rapidly alert state and federal animal health officials. While not a direct threat to human health, the impacts of ASF in swine could result in pork product shortages, disruptions to trade, and severe economic impacts.

12:15-1:15pm

African Swine Fever: The Disease, Distribution, and Threat to Global Swine Production

Eric Burrough, DVM PhD DACVP (AP)

Iowa State University Veterinary Diagnostic Laboratory

12:15-1:15pm

Veterinary and Comparative Clinical Immunology Society Session: Topics in Immunology

Chairs: Austin Viall, DVM DACVP (CP); Melanie Ammersbach, DVM DACVP (CP)

The Veterinary and Comparative Clinical Immunology Society Session highlights topics in clinical immunology, bringing together clinical, pathological, and immunologic perspectives on veterinary diseases. This seminar will discuss the pathogenesis of feline bartonellosis, with a focus on host immunologic responses and microbe factors result in such variable clinical manifestations and highlight advancements in diagnosis and treatment.

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12:15-1:15pm

From Cats to Clinicians: Comparative Immunopathogenesis of Bartonellosis

Erin Lashnits, DVM MS PhD DACVIM-SAIM

University of California, Davis

1:30-5pm

AAVLD Session: Highly Pathogenic Avian Influenza; Spillover Events and Diagnostic Breakthroughs in North America

Chairs: Javier Asin, DVM PhD DECVP; Francisco A. Uzal, DVM MSc PhD DACVP (AP); Grant N. Burcham, DVM PhD DACVP (AP)

Since 2021, an unprecedented panzootic caused by H5 highly pathogenic avian influenza virus has spilled over into multiple animal species. The situation in the United States is unique, as dairy cattle, several wild carnivores, and birds have been affected, while millions of domestic poultry have been culled to control disease spread. Diagnostic pathologists are on the front lines of this outbreak, and this session will provide an update on the overall situation, along with first-hand experiences from those working on these cases daily.

1:30-2:15pm

A Bird's Eye View: Ecoepidemiology and Pathobiology of Highly Pathogenic Avian Influenza Virus in Wild Birds in the Americas

Nicole Nemeth, DVM PhD DACVP (AP)

University of California, Davis

2:15-3pm

Review of H5N1 Highly Pathogenic Avian Influenza Outbreak in California Commercial Poultry

Carmen Jerry, DVM PhD DACVP (AP) DACPV

University of California, Davis

3-3:30pm

Break

3:30-4:15pm

Index Cases of Highly Pathogenic Avian Influenza A(H5N1) Clade 2.3.4.4b Genotype B3.13 Virus in U.S. Dairy Cattle and Domestic Cats

Eric Burrough, DVM PhD DACVP (AP)

Iowa State University

1:30-5pm

Clinical Pathology in Drug Discovery and Animal Models

Chairs: Flavio Alonso, DVM PhD DACVP (CP); Allison Vitsky, DVM DACVP (AP, CP)

The session aims to provide a comprehensive overview of clinical pathology topics relevant to laboratory animals, with a focus on practical applications and specialized areas. The session will combine topics such as the application of clinical pathology into drug development, and the hematology of birds and frogs to provide a well-rounded educational experience. It will cater to professionals interested in laboratory animal pathology, offering both foundational knowledge and advanced insights into niche areas.

Monday, October 27

1:30-2:10pm

Hematology of *Xenopus laevis* Frogs

Flavio Alonso, DVM PhD DACVP (CP)

Stanford University

2:10-3pm

Avian Clinical Pathology

Flavio Alonso

3-3:30pm

Break

3:30-5pm

Applying Clinical Pathology to Drug Development

Allison Vitsky, DVM DACVP (AP, CP)

Pfizer

1:30-5pm

Industrial and Toxicologic Pathology Focused Scientific Session

Chair: Laura Hoon-Hanks, DACVP (AP)

1:30-5pm

Natural Disease Focused Scientific Session I

Chair: Mason Jager DVM PhD DACVP (AP)

3-3:30pm

Education Break with Clinical Pathology, Experimental Disease, Industrial and Toxicologic Pathology, and Natural Disease Poster Authors Present

Coffee and tea available.

*** 2025 Exhibit Hall concludes at 3:30pm on Monday*

5-8pm

ASVCP Business Meeting and Reception

**ASVCP members only*

Chair: ASVCP Amy MacNeill, DVM PhD DACVP (CP)

Exclusively for members of ASVCP, the annual business meeting provides an opportunity to come together to hear a review of the organization's performance over the past year. Included are presentations from leadership and financial updates. Reception to follow where you can enjoy networking and collaborating with fellow members.

Monday, October 27

5:30-7pm

Davis-Thompson Foundation Awards Reception

Chairs: Clara Cole, DVM; Annette Gendron-Fitzpatrick, DVM PhD DACVP (AP)

The Davis-Thompson Foundation Awards presentation will recognize outstanding veterinary and/or comparative pathology trainees from each of our institutional members as well as honoring Foundation volunteers for service and lectureship and outstanding *Veterinary Pathology* journal and "Diagnostic Exercise" publications.

7-9pm

Translational Science and Medicine Mystery Slide Session

Chair: Piper Meigs Treuting, DVM MS DACVP (AP); Loni Schumacher, DVM PhD DACVP (AP)

This session will present findings and cases from preclinical studies using animal models to serve as a practical introduction to classic and unusual cases from across the sector (start-up, bio-tech, pharma, CRO). The cases will be discussed by a panel of investigative and toxicologic pathology experts. **Case histories and slides will be posted on acvp.org in October for registrant review before attending the session. Attendees are offered a complimentary drink of choice. (Additional drinks available for purchase).*

Tuesday, October 28

6:30-7:30am

Mat Pilates & Meditation with Leslie

Chairs: Katherine Gibson-Corley, DVM PhD DACVP (AP); Julie Engiles, DVM DACVP (AP); Sue Knoblauch, DVM DACVP (AP); Leslie D. Wilson, DVM PhD DACVP (AP)

Fellow Diplomate, Leslie, will lead this 45-minute mind-body Pilates workout designed to improve strength, mobility, and happiness, using a blend of slow, controlled movements, breathwork, and supportive coaching. Everyone is welcome!

7am-1pm

Meeting Registration open

7am-3:30pm

Speaker Ready Room open

7-8am

Sunrise Poster Viewing: Late-breaking

Coffee and tea available.

7-8am

ACVP Program Coordinators Network Breakfast

**Invitation only*

Chair: Molly Church, MS VMD PhD DACVP (AP)

Anatomic and Clinical Pathology training program coordinators are invited to join us for a Pathology Training Committee-hosted discussion of topics pertinent to resident training. Invitations and the agenda will be distributed prior to the event.

8am-12pm

Beyond CGM: The Future of Interstitial Fluid Analysis

Chair: Bonnie Bragdon, DVM MS

Interstitial fluid analysis holds great potential for improved patient care by allowing for continuous, real time insights into many diseases. Interstitial fluid is similar to plasma and equally rich in biomarkers, but unlike whole blood, interstitial fluid is relatively acellular requiring no processing for analysis. Research continues to reveal new insights into the anatomy and physiology of the interstitial spaces and shows greater connection than previously thought. Continuous glucose monitoring shows the clinical value of interstitial fluid monitoring: frequent and rapid measurement of glucose in interstitial fluid by an implanted biosensor allows dynamic and precise management of diabetic patients with fewer painful needle sticks. While continuous glucose monitoring has continued to evolve and improve the care of diabetic patients, interstitial fluid analysis to manage other

Tuesday, October 28

conditions has encountered obstacles to development. This series of lectures aims to inspire new research into the analysis of interstitial fluid to improve clinical care.

8-8:45am

New Insights Into the Anatomy and Physiology of the Interstitial Spaces

Rebecca Wells, MD

University of Pennsylvania Perelman School of Medicine

8:45-9:30am

Bridging the Gap: Measuring Potassium Levels from Interstitial Fluid for Real-Time Health Monitoring

Marianna Switchuk, MD

MacMaster University in Hamilton, Ontario

9:30-9:45am

Q&A

9:45-10:15am

Break

10:15-11am

Challenges and Opportunities in Biosensor Development

Mark Vreeke, PhD

Transatlantic Science

11-11:45am

Interstitial Fluid Analysis in Veterinary Medicine

Bonnie Bragdon, DVM MS

Kiffik Animal Health

11:45am--12pm

Q&A

8am-12pm

Equine Virology for Pathologists and Pathology for Virologists

Chairs: Fabio Del Piero, DVM PhD MS DACVP (AP); Mariano Carossino, DVM PhD DACVM DACVP (AP)

Infectious diseases are responsible of significant losses for the equine industry, in particular Equine herpesvirus 1 - EHV-1 characterized by four disease forms: benign respiratory, vasculotropic respiratory, abortigenic, and neurological. Equine Viral Arteritis is also an important disease with respiratory, vascular systemic, renal, and abortigenic forms. In this session, agents, pathogenesis, lesions, and diagnostic tools will be presented.

8-8:55am

Equine Viral Arteritis

Mariano Carossino, DVM PhD DACVM DACVP (AP)

Louisiana State University

Tuesday, October 28

8:55-9:45am

Pathogenesis and Lesions of the Four Forms of Equine Herpesvirus 1 (EHV1) Infection

Fabio Del Piero, DVM PhD MS DACVP (AP)

Louisiana State University

9:45-10:15am

Break

10:20am-12pm

Equine Diagnostic Virology

Udeni Balasuriya, DVM PhD DACVM

Louisiana State University

8am-12pm

The Intersection Between Complex In Vitro Models and Pathology

Chairs: Steven T Laing, BVMS(Hons) PhD DACVP (AP); Radhakrishna Sura, BVSc PhD DACVP (AP) DABT

In light of the FDA's recent guidance on New Approach Methodologies, this timely session will delve into the transformative potential of complex in vitro models (CIVMs), such as organoids, to advance disease research and drug evaluation while minimizing reliance on animal testing. Pathologists will gain critical insights into the current landscape of CIVMs, including validation strategies and practical guidance for their application. Attendees will leave equipped with a comprehensive understanding of the capabilities and limitations of these cutting-edge models, positioning them to collaborate effectively in this rapidly evolving and highly relevant field.

8-8:10am

Welcome

8:10-8:55am

Complex In Vitro Models: State of the Art and Definitions

Jessica Klein, PhD

Genentech

8:55-9:40am

Technical Aspects of Processing CIVM for Morphological and Immunohistochemical Assessment

Aliah Shamir, MD PhD

Genentech

9:45-10:15am

Break

11-11:45am

Companion Animal Organoids in Translational Drug Testing and Toxicology

Karin Allenspach, DMV PhD DECVIM-CA

University of Georgia

11:45am-12pm

Q&A

Tuesday, October 28

8am-12pm

Clinical Pathology Focused Scientific Session II

Chairs: Samantha Evans, DACVP (CP); Lisa Schlein, DACVP (CP)

9:45am-3:30pm

Late-Breaking Poster Viewing

9:45-10:15am

Education Break with Late-breaking Poster Authors Present

Coffee and tea available.

12:15-1:15pm

Pathologizing Ability: Considering Neurodivergent Experiences and Ableism in Veterinary Medicine

Chairs: Mason Jager DVM PhD DACVP (AP); Jose Daniel Cruz Otero, DVM DACVP (CP); Raisa Glabman, VMD PhD DACVP (AP); Timothy Wu, DVM PhD DACVP (AP) DACVM

In this session, participants will engage with an anti-deficit framework to explore key concepts, including neurodivergence and ableism. Together, they will examine the barriers faced by neurodivergent students, professionals, and clients, and reflect on their lived experiences. Building on this understanding, they will identify and begin to dismantle ableist assumptions and default perspectives within veterinary medicine. The session will conclude with a focus on neuro-inclusive practices and approaches, fostering a more equitable and supportive professional environment.

12:15-1:15pm

Pathologizing Ability: Considering Neurodivergent Experiences and Ableism in Veterinary Medicine

Naomi Nishi, MA PhD

Colorado State University

12:15-1:15pm

Veterinary Pathology Journal Session

Chair: Joshua Webster, DVM PhD DACVP (AP)

The peer review process is an essential part of scientific publications. This session will describe the goals and mechanics of the peer review process, how to conduct a peer review as a reviewer, and how to respond to a peer review as an author.

12:15-1:15pm

The Peer Review Process: The Author's, Editor's, and Reviewer's Perspectives

Joshua Webster, DVM PhD DACVP (AP)

Genentech

Tuesday, October 28

1:30-3pm

Natural Disease Focused Scientific Session II

Chair: Mason Jager DVM PhD DACVP (AP)

1:30-5pm

ASVCP Mystery Case Session

Chair: Johanna Rigas, DVM MS DACVP (CP)

In this session, pathologists and trainees present select veterinary clinical pathology-based cases encompassing classic, unique, and/or unusual representations of pathologic entities. Case discussions may include hematologic, cytologic, endocrinologic, or clinical chemistry findings resulting from natural disease, medical treatments, or research/toxicologic studies.

1:30-5pm

Comparative Pathology Concurrent Session: Practical Pathology and Considerations for Using Severely Immunocompromised Mice in Human Disease Modeling

Chairs: Jessica Snyder, DVM DACVP (AP); Sue Knoblaugh, DVM DACVP (AP); Hibret Adissu, DVM PhD DVSc DACVP (AP); Heather Sheppard, DVM PhD DACVP (AP)

When using severely immunocompromised mice in preclinical and safety studies, there are several important considerations to maximize their utility while acknowledging their limitations. This session will address some of these considerations for veterinary pathologists working with these mice, including historic and recently reported opportunistic viral and bacterial infections in mice such as the NSG (NOD scid gamma) and related strains and how factors related to their immune status may affect preclinical research. Case examples from the academic and industry settings will be provided. The session will conclude with a “pathology potpourri” slide show of common incidental and strain related histologic lesions in these strains and a roundtable discussion of approaches to ancillary diagnostics and reporting and discussing lesions with laboratory animal clinicians and research investigators.

1:30-1:35pm

Welcome

1:35-2:10pm

Practical Pathology of the NSG Mouse and Related Strains

Denise Imai-Leonard, DVM PhD DACVP (AP)

University of California, Davis

2:15-3pm

Clostridium cuniculi: An Emerging Cause of Diarrhea in Immunodeficient Mice

Kerriann Casey, DVM DACVP (AP)

Stanford University School of Medicine

3-3:30pm

Break

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3:30-4:10pm

The Use of Immunocompromised Mice in Preclinical Efficacy and Safety Studies

Keith Mansfield, DVM DACVP (AP)

Novartis

4:15-5pm

Pathology Potpourri Slide Show

Denise Imai-Leonard

Sue Knoblauch

Jessica Snyder

1:30-5pm

Experimental Disease Focused Scientific Session

Chair: Natalie Fowlkes, DACVP (AP)

3-3:30pm

Education Break with Late-breaking Poster Authors Present

Coffee and tea available.

3:30-5pm

Caregiving in Your Career: How to Navigate Parental and Dependent Care Leave

Chair: Krystal Vail, DVM PhD DACVP (AP); Emily Brinker, DVM PhD DACVP (AP)

This session, organized by the ACVP Women in Pathology Affinity Group, is for all interested attendees. Dr. Torres will provide data and perspective on the burdens of caregiving in a professional career as well as discussing possible solutions to existing barriers. The last half of the session will be dedicated to a role-playing session where participants can practice discussing caregiving leave in a professional setting.

3:30-4:15pm

Parenthood and Career Progression in STEMM: Myths, Challenges and Solutions

Isabel Torres, PhD

Mothers In Science

4:15-5pm

Discussing Caregiving Leave

All session attendees

5:15-6:30pm

ACVP Awards and Recognition Event

Chair: ACVP President Rachel Reams, DVM PhD DACVP (AP)

Come celebrate 2025 ACVP award winners.

Tuesday, October 28

6:30-8pm

ACVP President's Reception

Chair: ACVP President Rachel Reams, DVM PhD DACVP (AP)

Let's celebrate! Wrap up your Annual Meeting experience networking with other attendees over light appetizers and a complimentary beverage.

Tuesday, October 28