



PRELIMINARY PROGRAM (subject to change)

Friday, November 2, 2018

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

Speaker Ready Room Open

6:00 p.m.-8:00 p.m.

Registration Open

Saturday, November 3, 2018

7:00 a.m.-7:30 p.m.

Registration and Information Desk

7:00 a.m.-6:00 p.m.

Speaker Ready Room

8:00 a.m.-5:00 p.m. (available at an additional fee)

ACVP Pre-Meeting Workshop

Primate Pathology: Important Non-Human Primate Viral Pathogens

Session Chairs:

Theresa Boulineau, DVM, MS, DACVP, Boehringer Ingelheim Pharmaceuticals, Inc. Ridgefield, CT

Karyn Colman, BVetMed, DACVP, Novartis Institutes for BioMedical Research, East Hanover, NJ

The theme of this year's workshop is Important Non-Human Primate Viral Pathogens. The first focus will be on addressing established viral pathogens in primate colonies. Invited speakers will address simian herpesviruses as well as an array of other endemic viruses that are often ignored but that can affect research/study outcomes by immunomodulatory or other means. The second focus of the workshop will be on Emerging Viral Pathogens in primates. Invited speakers will address Ebolavirus among others.

In addition to presentations by invited speakers, there will be "mystery" NHP case presentations from workshop attendees in the afternoon. Case material with a focus on viral disease is encouraged, but material can be from any interesting, unique, or classic primate disease. Oral case presentations will be 10-12 minutes with 3-5 minutes for questions/discussion. Any interested parties, including clinicians, pathologists, and research scientists, are encouraged to submit cases.

8:00 a.m.-5:00 p.m. (available at an additional fee)

ACVP Pre-Meeting Workshop

Digital Pathology: Future Practice Pixels and Bytes

Session Chair: R. Mark Simpson, DVM, PhD, DACVP, National Cancer Institute, Bethesda, MD

Whole-slide image (WSI) based digital pathology systems (DPS) permit much more than just an alternative way to view a histopathology slide. Some of the greatest impacts are anticipated to be due to computational image analysis and pathology informatics, now merging into pharmaceutical research, computer-assisted clinical diagnostics, and education. Workshop participation will afford greater understanding of how application of DPS is evolving in clinical diagnosis and research. Participants will obtain greater comprehension of how this high velocity field is poised for major disruption due to the impact of artificial intelligence, and how veterinary pathologists must position themselves to remain adopters and peer leaders of this transformational change. DPS vendor scientists and technical representatives will also participate for real use scenarios of state of the art technology by workshop participants.

8:00 a.m.-5:00 p.m. (available at an additional fee)

ASVCP Pre-Meeting Workshop

Clinical Pathology of Exotics

Session Chair: Nicole Rosen, MT (ASCP), Purdue University, West Lafayette, IN

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

C.L. Davis-Thompson Foundation Pre-Meeting Workshop

Endocrine Pathology

Session Chairs: Bruce H. Williams, DVM, DACVP, Joint Pathology Center, Silver Spring, MD

Jennifer L. Chapman, DVM, DACVP, Defense Health Agency, Falls Church, VA

In this workshop, Dr. Don Meuten will provide a review of lesions, pathogenesis and clinical pathology associated with diseases of the endocrine system. Emphasis will be on common endocrinopathies, primarily in dogs and cats, but with a comparison to similarities and differences in other species. Gross, microscopic, cytology and lab data will be presented. Topics will include parathyroid and calcium disorders, disorders of the thyroid gland, adrenal gland, pituitary gland, and endocrine pancreas. This exciting course should be of interest to veterinary pathologists, pathology residents, and diagnosticians.

3:00 p.m.-8:00 p.m.

Career Center

6:30 p.m.-7:30 p.m.

Resident Reception

Sponsored by Antech

7:30 p.m.-9:00 p.m.

Opening Reception and Veterinary Student Poster Session

Sunday, November 4, 2018

7:00 a.m.-5:00 p.m.

Registration and Information Desk

7:00 a.m.-6:00 p.m.

Speaker Ready Room

8:00 a.m.-12:00 noon

ASVCP Current Topics in Clinical Pathology:

Clinical Immunology

Session Chair: Kristina Meichner, DVM, DECVIM-CA, DACVP,
University of Georgia, Athens, GA

8:00 a.m.-8:50 a.m.

Diagnostic Criteria for Immune-Mediated Hemolytic Anemia:
Laying the Ground Rules, or Opening Pandora's Box?
Oliver Angus Garden, BVetMed, PhD, DACVIM (SAIM), DECVIM-
CA, University of Pennsylvania, Philadelphia, PA

8:50 a.m.-9:40 a.m.

What is the Evidence for the Use of Commonly Used Diagnostic
Tests for IMHA and How Are They Most Optimally Performed?
Amy MacNeill, DVM, PhD, DACVP (clinical), Colorado State
University, Ft. Collins, CO

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

Refreshment Break

10:10 a.m.-11:00 a.m.

Principles and Clinical Applications of Clinical Flow Cytometry
Dorothee Bienzle, DVM, MSc, PhD, DACVP (clinical), University of
Guelph, Guelph, Ontario, Canada

11:00 a.m.-11:50 a.m.

Immune Thrombocytopenia (ITP): Pathophysiology Update and
Diagnostic Dilemmas
Dana LeVine, DVM, PhD, DACVIM (SAIM), Iowa State University,
Ames, IA

11:50 a.m.-12:00 noon

Questions and Discussion

8:00 a.m.-12:00 noon

Career Development: *Fighting Fatigue*

Session Chairs:

Kris Helke, DVM, PhD, DACVP, Medical University of South Carolina
Tracy Gluckman, MS, DVM, DACLAM, Oregon Health and Sciences
University, Portland, OR

8:00 a.m.-8:50 a.m.

Mental Health in Veterinarians

Elizabeth Strand PhD, MSSW, University of Tennessee, Knoxville, TN
Linda Lord, DVM, PhD, Merck Animal Health, Worthington, OH

8:50 a.m.-9:40 a.m.

Compassion Fatigue in the Workplace: Is the Cost of Caring
Affecting Me?

Tracy Gluckman MS, DVM, DACLAM

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

Refreshment Break

10:10 a.m.-11:00 a.m.

A Veterinary Pathologist and a Social Worker Share an Uber:
What Happens Next?

Sandra Brackenridge, PhD, MSSW, Center for Veterinary Specialty
and Emergency Care, Lewisville TX

11:00 a.m.-12:00 noon

Roundtable Discussion

Does Veterinary Medicine Have a Mental Health Crisis?

Sandra Brackenridge, PhD, MSSW

Tracy Gluckman MS, DVM, DACLAM

Linda Lord, DVM, PhD

Elizabeth Strand PhD, MSSW

8:00 a.m.-12:00 noon

Concurrent Session I:

Pathology Beyond Borders: Global Engagement

Session Chairs:

Sarah M. Corner, DVM, MS, DACVP, Michigan State University,
East Lansing, MI

Derron A. Alves, DVM, DACVP, U.S. Army Veterinary Corps,
Silver Spring, MD

In 2016, the GHPN held a mini-symposium outlining the creation
of the Global Health Pathology Network and describing the
nature of potential international endeavors that veterinary
pathologists could pursue. Now, in 2018, the GHPN would like to
expand on the earlier program and more specifically detail ways
in which veterinary pathologists could interact with colleagues
and programs in-country or via remote technologies such as
telepathology. Part 1 of this session will focus on important
transboundary animal diseases and disease reporting, and Part 2
will cover the use of telepathology to connect and partner with
developing nations.

8:00 a.m.-8:10 a.m.

Introduction and Update on GHPN

Derron A. Alves, DVM, DACVP

Part 1: Reportable/Transboundary Animal Diseases

8:10 a.m.-8:50 a.m.

Pathogenesis of Selected Transboundary Animal Diseases

Corrie Brown, DVM, PhD, DACVP, University of Georgia,
Athens, GA

8:50 a.m.-9:30 a.m.

Reporting Transboundary Diseases

Aaron D. Lehmkuhl, DVM, MS, DACVP, National Veterinary Services Laboratories, Ames, IA

9:30 a.m.-9:40 a.m.

Questions and Discussion

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

Refreshment Break

Part 2: Those who have created learning programs for colleagues in developing nations will share their ideas and platforms, including what works and what doesn't in this format.

10:10 a.m.-11:00 a.m.

Challenges and Opportunities in Global Veterinary

Telepathology: Real World Experiences

Dalen Agnew, DVM, PhD, DACVP, Michigan State University, Lansing, MI

11:00 a.m.-11:50 a.m.

Innovation Through Partnerships and Technology in Pathology

Danny A. Milner, Jr., MD, MSc (Epi), FASCP, FASTMH, American Society for Clinical Pathology, Chicago, IL

11:50 a.m.-12:00 noon

Questions and Discussion

8:00 a.m.-12:00 noon

Industrial and Toxicologic Pathology Focused Scientific Session I

Session Chair: Janardhan Kyathanahalli, BVSc, MVSc, PhD, DACVP, Integrated Laboratory Systems, Research Triangle Park, NC

Invited Speakers

Immunotoxicity Evaluation: Approaches and Challenges

Gopinath Palanisamy, BVSc, MS, PhD, DACVP, Genentech, South San Francisco, CA

Histopathological Evaluation for Immunotoxicity

Cynthia Willard-Mack, VMD, PhD, Envigo, East Millstone, NJ

8:00 a.m.-12:00 noon

Natural Disease Focused Scientific Session I

Session Chair: Daniel R. Rissi, DVM, PhD, DACVP, University of Georgia, Athens, GA

Invited Speakers

Interdisciplinary Insights on the New World Origin of Canine

Distemper

Elizabeth Uhl, DVM, PhD, DACVP, University of Georgia, Athens, GA

Toxic Plants of Livestock: Case Studies and Diagnostic Workup

Leslie W. Woods, DVM, PhD, DACVP, University of California, Davis, Davis, CA

9:00 a.m.-5:00 p.m.

Career Center

9:30 a.m.-4:30 p.m.

Focused Scientific Poster Session

Exhibits Open

12:00 p.m.-1:30 p.m.

Lunch Break (on your own)

12:15 p.m.-1:15 p.m.

Emerging Disease Focus Seminar

Session Chair: Schantel A. Bouknight, DVM, PhD, DACVP, Charles River Laboratories, Durham, NC

12:15 p.m.-1:15 p.m.

Veterinary Pathology Resident/Trainee Luncheon

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

ASVCP Veterinary Laboratory Professionals Session I

Session Chair: Nicole Rosen, MT (ASCP), Purdue University, West Lafayette, IN

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

Mini-Symposium I:

Leadership Development: Involve and Evolve

Session Chairs: Barbara Davis, VMD, PhD, DACVP, Innogenics, Harvard, MA

R. Mark Simpson, DVM, PhD, DACVP, National Cancer Institute, Bethesda, MD

What is leadership?

Leadership can be hard to define and it means different things to different people, but there are some characteristics that appear common to the best leaders. Foremost, leaders help themselves and others do the right things. They set directions, build an inspiring vision and create something new. Leadership is about mapping out where you need to go to win as a team or organization and communicating the vision and future. Leadership is dynamic, exciting and inspiring. Effective leaders have integrity, enthusiasm and good communication skills.

A leader has faith in their ability to train and develop the employees under them. Because of this, they have the willingness to empower those they lead to act autonomously.

Facilitator: Betsy Charles, DVM, MA, DACVR, Veterinary Leadership Institute and Western University of Health Sciences

1:30 p.m.-3:00 p.m.

Panel Discussion of Prominent Leaders in Our Field

Anne Barger, DVM, MS, DACVP, ACVP Past President, 2018–2019, University of Illinois at Champaign-Urbana, Champaign, IL

Diane Brown, DVM, PhD, DACVP, AKC Canine Health Foundation, Raleigh, NC

Dawn Duncan-Evans DVM, DACVP, LSU School of Veterinary Medicine, Baton Rouge, LA

Richard T. Miller, DVM, PhD, DACVP, RD Platform Technology & Science, King of Prussia, PA

Mary Anna Thrall, DVM, MS, DACVP, ACVP Past President, 2007, Ross University, Basseterre, West Indies

Michael J. Topper, DVM, PhD, DACVP, AVMA Past-President, Merck & Company, Harleysville, PA

Susan J. Tornquist, DVM, PhD, DACVP, Oregon State University, Corvallis, OR

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

3:30 p.m.-4:50 p.m.
Roundtable Discussions.
Session summary and next directions for veterinary pathologist leadership development.

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

Clinical Pathology Focused Scientific Session I

Session Chair: Julie Webb, DVM, DACVP, IDEXX Laboratories, Markham, Ontario

Invited Speaker
Targeting the Complement Cascade to Dampen Autoimmune Diseases in the Dog
Erica Behling-Kelly, DVM, PhD, DACVP, Cornell University, Ithaca, NY

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

Diagnostic Pathology Focused Scientific Session I

Session Chair: Eric R. Burrough, DVM, PhD, DACVP, Iowa State University, Ames, IA

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

Experimental Disease Focused Scientific Session I

Session Chair: Sanjeev Gumber, BVSc, MVSc, PhD, DACVP, Emory University, Atlanta, GA

Invited Speakers
Unlocking Mechanisms of Cystic Fibrosis Lung Disease
David K. Meyerholz, DVM, PhD, DACVP, University of Iowa, Iowa City, IA

Are Laboratory Animals Relevant for Studying Human Disease?
Jerry Ward, DVM, PhD, DACVP, Global VetPathology, Montgomery Village, MD

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

Natural Disease Focused Scientific Session II

Session Chair: Daniel R. Rissi, DVM, PhD, DACVP, University of Georgia, Athens, GA

Invited Speakers
Hyrax Under Glass
Dalen Agnew, DVM, PhD, DACVP, Michigan State University, Lansing, MI

Viral Discovery and Establishing Links to Causality
Patricia Pesavento, DVM, PhD, DACVP, University of California, Davis, Davis, CA

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

ASVCP Business Meeting

6:00 p.m.-7:30 p.m.

ACVP Town Hall Business Meeting

7:30 p.m.-9:30 p.m.

Mystery Slide Review Session: Neuropathology

Session Chair: Andrew D. Miller, DVM, DACVP, Cornell University, Ithaca, NY

Monday, November 5, 2018

7:00 a.m.-6:00 p.m.

Speaker Ready Room

7:30 a.m.-1:00 p.m.

Registration and Information Desk

8:00 a.m.-12:00 noon

ACVP and ASVCP Plenary Session:

Artificial Organs to Tissue Chips- Medical Advances in Tissue Bioengineering

Session Chairs:

Erin Brannick, DVM, MS, DACVP, University of Delaware, Newark, DE
John Slater, PhD, University of Delaware, Newark, DE

Recent advances in computer-modeling, bioprinting, and tissue engineering have led to the creation of synthetic tissues and organs for transplantation, as well as new diagnostic and drug development assays such as organ-on-a-chip technologies. Just how closely do synthetic tissues match their real counterparts? What potential role could veterinary pathologists play in development and evaluation of synthetic tissue models? Global leaders in the field of tissue bioengineering will share successes, challenges, and future opportunities in this burgeoning research field.

8:00 a.m.-9:00 a.m.

Micro and Nanoengineered Hydrogels for Regenerative Engineering and Precision Medicine

Ali Khademhosseini, PhD, University of California, Los Angeles, Los Angeles, CA

9:00 a.m.-10:00 a.m.

Body-on-a-Chip Systems for Drug and Diagnostic Test Development

Michael L. Shuler, PhD, Cornell University, Ithaca, NY

10:00 a.m.-10:30 a.m.

Refreshment Break

10:30 a.m.-11:30 a.m.

Regenerative Medicine: Current Concepts and Changing Trends
Anthony Atala, MD, Wake Forest University, Winston-Salem, NC

11:30 a.m.-12:00 noon

Speaker Panel for Q&A

8:00 a.m.-12:00 noon

ASVCP Veterinary Laboratory Professionals Session II

Session Chair: Nicole Rosen, MT (ASCP), Purdue University, West Lafayette, IN

9:00 a.m.-5:00 p.m.

Career Center

9:30 a.m.-1:00 p.m.

**Focused Scientific Poster Session
Exhibits Open**

12:00 noon-1:30 p.m.

Lunch Break (on your own)

12:15 p.m.-1:15 p.m.

Veterinary Pathology Journal Editors Present

Session Chair: Jeff L. Caswell, DVM, DVSc, PhD, DACVP, Editor, *Veterinary Pathology* and University of Guelph, Guelph, Ontario

12:15 p.m.-1:45 p.m.

Latin Comparative Pathology Group Presents

(presented in English)

Session Chairs: Melissa Sanchez, VMD, PhD, DACVP, Antech Diagnostics

Ana Alcaraz, DVM, PhD, DACVP, Western University of Health Sciences

Lessons and Lesions from Around the World

Corrie Brown, DVM, PhD, DACVP, University of Georgia, Athens, GA

Reproductive Pathology in Zoo and Wild Animals

Dalen Agnew, DVM, PhD, DACVP, Michigan State University, Lansing, MI

1:30 p.m.-3:30 p.m.

ASVCP Case Discussion Session

Session Chair: Amy MacNeill, DVM, PhD, DACVP (clinical), Colorado State University, Ft. Collins, CO

1:30 p.m.-4:00 p.m.

Community Service Activity: Clean the World

1:45 p.m.-3:00 p.m.

Meet the Pathologists

3:00 p.m.-5:00 p.m.

Veterinary Student and Resident Forum

3:45 p.m.-5:15 p.m.

ASVCP Education Forum for Discussion

Session Chair: Deanna M. Schaefer, DVM, DACVP, University of Tennessee, Knoxville, TN

Ashleigh W. Newman, VMD, DACVP, Cornell University, Ithaca, NY

5:15 p.m.-6:45 p.m.

ASVCP Reception

5:30 p.m.-7:00 p.m.

ACVP New Diplomates Reception

7:00 p.m.-9:00 p.m.

Mystery Slide Review Session: *Muscle Pathology*

Session Chair: G. Diane Shelton, DVM, PhD, DACVIM, University of California, San Diego, CA

Heather Tillman, DVM, PhD, DACVP, St. Jude Children's Research Hospital, Memphis, TN

Tuesday, November 6, 2018

7:00 a.m.-6:00 p.m.

Speaker Ready Room

7:30 a.m.-5:00 p.m.

Registration and Information Desk

8:00 a.m.-12:00 noon

Concurrent Session II:

Before and After: Muscle and Meat Pathology of Food Animal Species

Session Chairs: David K. Meyerholz, DVM, PhD, DACVP, University of Iowa, Iowa City, IA

John Edwards, DVM, PhD, DACVP, Texas A&M University, College Station, TX

Diagnostic pathologists are often called upon to evaluate pre-processing muscle lesions in food animal species and may also be asked to evaluate lesions in meat following carcass processing/dressing. Common gross and histologic lesions of muscle and meat will be covered across food animal species, including ruminants, game animals, swine and poultry.

8:00 a.m.-10:00 a.m.

Identification of Muscle and Meat Lesions in Ruminant and Game Animal Species

John Edwards, DVM, PhD, DACVP

10:00 a.m.-10:30 a.m.

Refreshment Break

10:30 a.m.-11:15 a.m.

Genetic, Nutritional, and Toxicologic Diseases of Porcine Muscle

Eric R. Burrough, DVM, PhD, DACVP, Iowa State University, Ames, IA

11:15 a.m.-12:00 noon

Wooden Breast, White Striping and "Worms": Muscle and Meat Lesions of Broiler Chickens

Erin Brannick, DVM, MS, DACVP, University of Delaware, Newark, DE

8:00 a.m.-12:00 noon

Concurrent Session III:

Diseases and Disorders Associated with Natural and Manmade Disasters

Session Chairs:

Julie Engles, VMD, DACVP, University of Pennsylvania, Kennett Square, PA

Lisa Murphy, VMD, DABT, University of Pennsylvania School of Veterinary Medicine, Kennett Square, PA

8:00 a.m.-8:50 a.m.

Overview of Diseases and Toxicologic Concerns Associated with Floodwaters and Other Natural Disasters

Sharon Gwaltney-Brant, DVM, PhD, DABVT, DABT, Veterinary Information Network, Mahomet, IL

8:50 a.m.-9:40 a.m.

Injuries and Disorders in Military Working Dogs (MWDs)

Matt S. Takara, DVM, MSpVM, DACVIM(SAIM), U.S. Army Animal Health Division, Lackland, TX

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

Refreshment Break

10:10 a.m.-11:00 a.m.

Effects of Radiation on Animals: What Do We Really Know?

Lisa Murphy, VMD, DABT

11:00 a.m.-11:50 a.m.

Waterborne Wildlife Pathogens and Water-Related Disasters

Christine Densmore, DVM, PhD, U.S. Geological Survey,

Kearneysville, WV

11:50 a.m.-12:00 noon

Questions and Discussion

8:00 a.m.-12:00 noon

Clinical Pathology Focused Scientific Session II

Session Chair: Julie Webb, DACVP, IDEXX Laboratories, Markham, Ontario

Invited Speaker

NETs, cfDNA and Immunothrombosis: A Tangled Web?

Robert Goggs, BVSc, PhD, DACVECC, DECVECC,

Cornell University, Ithaca, NY

8:00 a.m.-12:00 noon

Education Focused Scientific Session

Session Chairs: Rachel Mo Peters, DACVP, Agios Pharmaceuticals, Arlington, MA

Mee-Ja Sula, DACVP, University of Tennessee, Knoxville, TN

Invited Speakers:

Terry Fei Fan Ng, PhD, University of Georgia, Athens, GA

Marta Castelhana, DVM

Cornell University College of Veterinary Medicine, Ithaca, NY

James Wasmuth, BSc, MRes, PhD, University of Calgary, Calgary, Alberta

9:00 a.m.-5:00 p.m.

Career Center

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

Focused Scientific Poster Session

Exhibits Open

12:15 p.m.-1:15 p.m.

Presidential Pathology and Assassination Conservation

Session Chair: Sanjeev Gumber, BVSc, MVSc, PhD, DACVP, Emory University, Atlanta, GA

Preserving Pathology and Remains of Presidents and Their Assassins

Lowell Flanders, MS, Mütter Museum, Philadelphia, PA

12:15 p.m.-1:15 p.m.

Maintenance of Certification Review Session

Session Chair: Amy C. Durham, VMD, DACVP, University of Pennsylvania, Philadelphia, PA

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

ASVCP Mystery Slide Case Session

Session Chair: Amy MacNeill, DVM, PhD, DACVP (clinical), Colorado State University, Ft. Collins, CO

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

Mini-Symposium II:

Snap Decisions: Intraoperative Diagnosis: Pathology of Organ Transplantation

Session Chair: Pamela J. Mouser, Angell Animal Medical Center, Boston, MA

Joshua Webster, DVM, PhD, DACVP, Genentech, South San Francisco, CA

Veterinary medicine is continually evolving to provide more rapid and accurate diagnostic testing for patients. The sense of urgency intensifies with critical or anesthetized patients, where treatment decisions await the results of STAT diagnostics. Pathologists are expected to interpret intraoperative cytopathology and frozen sections to provide immediate answers, some of which may result in aggressive surgical measures or end-of-life decisions. These opportunities can be exciting and stressful for all parties involved. This session explores some of the challenges, benefits, techniques, and outcomes of providing intraoperative diagnostic services.

Guiding the Surgeons Hands: The History and Current Practice of Frozen Section and On Site Assessment at Mayo Clinic

Gary L. Keeney, MD, and John C. Cheville, MD, Mayo Clinic, Rochester, MN

Intraoperative Frozen Sections: The Veterinary Experience

Andrew D. Miller, DVM, DACVP, Cornell University, Ithaca, NY

A Novel Digital Cytology Service for STAT Submissions

Julie Piccione, DVM, MS, DACVP, Texas A&M Veterinary Medical Diagnostic Laboratory, College Station, TX

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

Diagnostic Pathology Focused Scientific Session II

Session Chair: Eric R. Burrough, DVM, PhD, DACVP, Iowa State University, Ames, IA

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

Experimental Disease Focused Scientific Session II

Session Chair: Sanjeev Gumber, BVSc, MVSc, PhD, DACVP, Emory University, Atlanta, GA

Invited Speakers

Immune Response to Transplanted Organs, with a Focus on Therapeutics and Diagnostics

Andrews Adams, MD, PhD, Emory University, Atlanta, GA

Landmarks on the Canine CAR Journey

Nicola J. Mason, PhD, BVetMed, DACVIM, University of Pennsylvania, Philadelphia, PA

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

Industrial and Toxicologic Pathology Focused Scientific Session II

Session Chair: Janardhan Kyathanahalli, BVSc, MVSc, PhD, DACVP, Integrated Laboratory Systems, Research Triangle Park, NC

Invited Speakers

Basics of Preclinical Toxicity Testing

Alok K. Sharma, BVSc, MVSc, PhD, DACVP, Covance Laboratories, Inc., Madison, WI

Investigational New Drug (IND) Application

LuAnn McKinney, DVM, DACVP, US Federal Drug Administration, Silver Spring, MD

5:15 p.m.-6:45 p.m.

ACVP Awards and Recognition Event

7:00 p.m.-9:30 p.m.

ACVP President's Reception

Wednesday, November 7, 2018

7:00 a.m.-11:00 a.m.

Speaker Ready Room

8:00 a.m.-1:00 p.m.

Registration and Information Desk

8:00 a.m.-12:00 noon

Concurrent Session IV:

Virology, Pathology, and the Future

Session Chairs:

Patricia Pesavento, DVM, PhD, DACVP, University of California, Davis, Davis, CA

Michael J. Oglesbee, DVM, PhD, DACVP, The Ohio State University, Columbus, OH

The potential roles of viruses in disease causation are increasingly apparent, in large part due to advances in molecular diagnostics and viromics. However, detection alone does not address the many potential host-virus interactions that determine the outcome of infection. What makes a virus a pathogen? The 'reality of causality' is that pathology is vital to identify outcomes of infection and to understand basic considerations that make animal models relevant in studying specific infection outcomes. In this session we will explore the frontlines of viral discovery, viral persistence, and host-viral interactions to illustrate how virology and pathology combine to address new challenges in the field.

8:00 a.m.-8:50 a.m.

Viral Discovery: Opportunities and Challenges

Torsten Seuberlich, DrMedVet, Universität Bern, Bern, Switzerland

8:50 a.m.-9:40 a.m.

Expanding Relevance of Mouse Models of Viral Virulence

Michael J. Oglesbee, DVM, PhD, DACVP

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

Refreshment Break

10:10 a.m.-11:00 a.m.

Host Fitness Promoting Traits of Natural Microbiota in Mice

Barbara Rehmann, MD, National Institutes of Health, Bethesda,

MD

11:00 a.m.-11:45 a.m.

Persistent Viruses and Viral Oncogenesis

Patricia Pesavento, DVM, PhD, DACVP

11:50 a.m.-12:00 noon

Questions and Discussion

8:00 a.m.-12:00 noon

Concurrent Session V: *Comparative Oncology*

Session Chairs:

Joshua Webster, DVM, PhD, DACVP, Genentech, South San Francisco, CA

Stephen M. Hewitt, MD, PhD, National Cancer Institute, Bethesda, MD

This session will focus on emerging opportunities and challenges of using companion animals as models of human cancer. The session will be introduced by Joshua Webster (session chair) who will discuss the unique benefits and opportunities of comparative oncology as well as some of the challenges observed from the perspective of a pharma interested in using comparative oncology approaches in drug development. Steven Dow of Colorado State University will then discuss comparative tumor immunology in dog and man and will provide perspective on how the dog can be used to evaluate immunotherapy to inform both human and veterinary medicine. Debra Knapp from Purdue will then discuss an investigator sponsored clinical trial using vemurafenib to treat BRAF-V600E mutant canine urothelial cancer. This trial highlights the use of comparative modeling based on genetic mutations rather than histomorphology. Finally, Mark Simpson and Stephen Hewitt from the NCI will discuss the comparative oncology tumor boards and how cross-functional veterinary, human, investigative, and clinical collaborations are needed for successful comparative studies.

8:00 a.m.-8:30 a.m.

Opportunities and Challenges of Comparative Oncology from a Pharma Perspective

Joshua Webster, DVM, PhD, DACVP

8:30 a.m.-9:30 a.m.

Comparative Immuno-Oncology in Dogs and Man

Steven Dow, DVM, PhD, Colorado State University, Ft. Collins, CO

9:30 a.m.-10:00 a.m.

Refreshment Break

10:00 a.m.-11:00 a.m.

Anti-tumor Effects, Safety, and Mechanisms of Resistance of BRAF-targeted Therapy in Dogs with Naturally-occurring Invasive Urothelial Carcinoma

Deborah W. Knapp, DVM, MS, DACVIM, Purdue University, West Lafayette, IN

11:00 a.m.-12:00 noon

Comparative Oncology Benefits From the Synergistic Intel Achievable Through Physician and Veterinary Pathologist Consensus

R. Mark Simpson, DVM, PhD, DACVP, National Cancer Institute, Bethesda, MD

Steven M. Hewitt, MD, PhD

8:00 a.m.-12:00 noon

Mini-Symposium III:

Flow, Fibrin, and Fabulous Vessels

Session Chairs: Tracy Stokol, BVSc, PhD, DACVP, Cornell University, Ithaca, NY

Erica Behling-Kelly, DVM, PhD, DACVP, Cornell University, Ithaca, NY

This mini-symposium will cover recent discoveries in vascular biology; specifically, mechanistic studies in the pathogenesis of vascular inflammation and thrombosis and in vivo imaging and diagnostic approaches for detecting cerebrovascular events. Speakers will address the hemorrhage-inducing effects of endotheliotropic viruses in ruminants, factors that regulate fibrin clot structure and contribute to thrombosis, the use of multiphoton laser imaging tools to study cerebrovascular pathologic events in rodent models, and cerebrovascular disease in small animals.

8:00 a.m.-8:40 a.m.

Orbivirus Hemorrhagic Disease and the Bleeding Deer
Elizabeth Howerth DVM, PhD, DACVP, University of Georgia.

8:40 a.m.-9:20 a.m.

Mechanisms of Viral Hemorrhagic Fevers; the Examples of
Bluetongue and African Horse Sickness
N. James MacLachlan, BVSc, MS, PhD, DACVP, University of
California, Davis

9:20 a.m.-10:00 a.m.

Fibrinogen, Factor XIII and Red Blood Cells in Thrombosis
Alisa Wolberg PhD, FAHA, University of North Carolina,
Chapel Hill, NC

10:00 a.m.-10:30 a.m.

Refreshment Break

10:30 a.m.-11:10 a.m.

In Vivo Imaging of Brain Microvasculature: Multiphoton
Microscopy of Flow and Inflammation
Nozomi Nishimura PhD, Cornell University, Ithaca, NY

11:10 a.m.-11:50 a.m.

Cerebrovascular Disease in Companion Animals: What Happens,
Why, and How Do You Know?
Elizabeth Boudreau DVM, PhD, DACVIM, Texas A&M University

11:50 a.m.-12:00 noon

Questions and Discussion

8:00 a.m.-11:00 a.m.

**Wednesday Slide Conference Live From the Archives of the
Joint Pathology Center**

Session Chair: Derron A. Alves, DVM, DACVP, U.S. Army Veterinary
Corps, Silver Spring, MD

8:00 a.m.-12:00 noon

ACVP Young Investigator Award Poster Session

12:00 noon

Meeting Concludes

1:00 p.m.-5:00 p.m. (available at an extra fee)

Post-Meeting Workshop I: Forensic Pathology

Session Chair: Sean P. McDonough, DVM, PhD, DACVP,
Cornell University, Ithaca, NY



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