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INTRODUCTION

Welcome to Atlanta and the 2014 Joint Meeting of the American College of Veterinary Pathologists (ACVP), American Society for Veterinary Clinical Pathology (ASVCP) and American Society for Investigative Pathology (ASIP). In honor of this first Joint Meeting of the three societies, we have selected topics of interest to the broader biomedical community and have a lineup of dynamic speakers to deliver the material. In the following paragraphs you will find a day-to-day summary of the meeting highlights and events.

Saturday, November 8
Start the meeting off with one of three great Pre-Meeting Workshops. Learn about digital imaging techniques, image segmentation, feature extraction, quantitation of labels and computational analysis in “Image Science in the 21st Century: Opportunities for Pathology Investigation and Diagnostics” organized by Dr. John Tomaczewski and the ASIP. Or, explore how important information relevant to human disease can be derived from mouse models in the ACVP-sponsored workshop “Understanding the Mouse Immune System: Relevance for Study of Human Diseases.” The session will cover anatomy, physiology and strain variation, and general histopathology for immunologic studies. Brush up on the kidney in “The Ins and Outs of the Kidney,” which will cover a review of renal physiology, routine and advanced urinalysis testing, urinalysis quality control and quality assurance programs, and urolithiasis. This workshop will also include an interactive digital sediment examination session. Thinking about flipping your classroom? Learn about a large classroom model for this educational technique at the ASVCP Teaching Clinical Pathology Session (6:00 p.m.) Finally, be sure to attend the Opening Reception (7:00 p.m.).

Sunday, November 9
Sunday is the first day of the concurrent sessions. The theme for this year’s ASVCP Education Symposium is “Advances in Diagnostic Testing: New Modalities, Quality Assurance, and Ethical Considerations,” while the Career Development Symposium will focus on “Brand Recognition: Professional and Personal Branding for Your Career.” The morning Concurrent Session is titled “Comparative Mouse Pathology” and will be of particular interest to scientists who focus on murine models of human disease. Review the pathogenesis of the avian influenza virus and the potential for a global pandemic during the lunchtime “Emerging Disease Session.” In the afternoon, the Concurrent Session “Epithelial/Mucosal Cell Pathobiology” will examine host/microbe interactions at the level of the gut mucosa and will feature several excellent speakers from Emory University. In addition, the day is packed with morning and afternoon focused scientific sessions including Clinical Pathology, Diagnostic Pathology, Experimental Disease, Industrial/Toxicologic Pathology, and Natural Disease, and the first of three ASVCP Veterinary Laboratory Professionals sessions. Following the ASVCP Business Meeting (4:30 p.m.) and ACVP Town Hall Meeting (6:00 p.m.), there will be a very special Mystery Slide Session focused on “Comparative Oncology,” during which veterinary pathologists and medical pathologists will compare and contrast common neoplasms found in domestic species and man.
Monday, November 10
This year’s Plenary Session focuses on “Systems Biology.” Rather than studying the role that a single pathway plays in a disease process, Systems Biology approaches the problem from a holistic, non-biased view. Diseased and control cells or tissues are compared in terms of DNA sequence or epigenetic alterations, protein, mRNA and/or miRNA expression patterns to uncover differences in the diseased state, and this information is then used to elucidate the underlying pathogenesis of the disease. To introduce the topic to us this year, we have recruited one of the top scientists in the field, Dr. Eric Schadt, Professor and Chair of the Genetics and Genomic Sciences Department at Mount Sinai Hospital. Dr. Ingegerd Elvers will then discuss how she and colleagues at the Broad Institute in Cambridge, MA., are using Systems Biology approaches to identify genes and pathways associated with the development of cancer in certain dog breeds. Dr. Donald Ingber from the Wyss Institute in Cambridge, MA., will share with us his work to elucidate the genes and pathways associated with the development of human cancers and explain how this information will be applied to design-specific treatments for each patient. Finally, Dr. Ursula Klingmüller from the German Cancer Research Center will deliver a visually rich presentation, demonstrating how she and her colleagues use Systems Biology to study liver regeneration. The second ASVCP Laboratory Professionals session, chaired by Nicole Rosen, will run concurrently. In the afternoon, attend the ASVCP Case Discussion Session, participate in the Community Service Project, or enjoy all of the shopping, dining and sight-seeing in Atlanta. However, be sure to make it back in time for the 5:15 p.m. ASVCP Reception and the 7:00 p.m. Neuropathology Mystery Slide Seminar chaired by Jey Koehler.

Tuesday, November 11
Tuesday morning will include two concurrent sessions. Sepsis is an important cause of morbidity and mortality in both veterinary and human medicine, and the session “The Pathogenesis of Septic Shock” will provide an overview of the pathogenesis of sepsis, systemic inflammatory response syndrome (SIRS) and multiple organ dysfunction syndrome (MODS). The second concurrent session titled “Equine Pathology,” will update us on cutting-edge laminitis research, discuss spinal cord pathology including the pathogenesis of “shivers,” and review diseases of the equine neonate and perinatal period. The focused scientific sessions (Clinical Pathology, Diagnostic Pathology, Education, Experimental Disease, and Industrial/Toxicologic Pathology) will occur throughout the day, while the afternoon will see both the final session of the ASVCP Veterinary Laboratory Professionals program and the ever-popular ASVCP Mystery Slide Case Session. In the evening, help us recognize all our outstanding award recipients at the Awards and Recognition Event (5:15 p.m.) and, of course, be sure to attend the ACVP Presidential Reception (7:00 p.m.).

Wednesday November 12
The final Concurrent Session, “Osteoarthritis,” will be presented on Wednesday morning. This session will include a comprehensive and up-to-date review of the topic including particular emphasis on the significance of the disease in dogs and horses. On Wednesday morning there will be a concurrent Mini-Symposium on “Iron Biology and Anemia.” We have invited some of the most prominent experts in the world to discuss the proteins and pathways involved in normal iron metabolism, and the pathogenesis of anemia and iron overload diseases. On Wednesday afternoon, we will have several excellent post-meeting workshops, including a comprehensive session on “Renal Pathology,” which will discuss clinical evaluation, best practices for
biopsy collection and evaluation and selection of appropriate therapies. The Primate Pathology Workshop, “*Immuno-Oncology: Lessons From Comparative Studies in Human and Nonhuman Primates,*** will focus on recent groundbreaking developments in cancer immunotherapy and the unique value of nonhuman primate studies to the development of molecularly-targeted therapies. Case presenters will discuss various primate neoplastic diseases or treatment-related abnormalities.

We would like to extend thanks to the sponsors and exhibitors that support this meeting. Special thanks also go to Jane Shepard, Wendy Coe, and the ACVP staff for their tireless contributions to the ACVP and the Annual Meeting. The organization and implementation of the Annual Meeting could not move forward without their hard work. Thanks are due to the host of volunteers on the ACVP Education Committee, ASVCP Program Committee, ASIP Education Committee, Focused Scientific Session Committee, individual session chairs, and ACVP Council that have teamed together to present this meeting to you. Lastly, we would like to thank the membership of the ACVP, ASVCP, and ASIP for their attendance and participation, without which this meeting would not be possible.

Jim Rottman, DVM, PhD*
2014 ACVP Annual Meeting Program Chair

Jennifer A. Neel, DVM*
2014 ASVCP Annual Meeting Program Chair

Mark Sobel, MD, PhD+
2014 ASIP Annual Meeting Program Chair
2014 ACVP EDUCATION COMMITTEE

Education Committee Chair
Kelli L. Boyd, DVM, PhD*

Program Chair
James B. Rottman, DVM, PhD*

Education Committee
Robin W. Allison, DVM, PhD*
Marie-Odile Benoit-Biancamano, DVM, MSc, PhD, DECVP*
Kelli L. Boyd, DVM, PhD*
Erin M. Brannick, DVM, MS*
Lauri J. Diehl, DVM, PhD*
Kendall S. Frazier, DVM, PhD*
Ingeborg Langohr, DVM, PhD*
Krista M. LaPerle, DVM, PhD*
Christiane Löhrl, DVM, PhD*
David K. Meyerholz, DVM, PhD*
Jennifer A. Neel, DVM*
Shelley J. Newman, DVM, DVSc*
Alicia K. Olivier, DVM, PhD*
Laura A. Snyder, DVM*

Advisory Group
Mark Evans, DVM, PhD*
Elizabeth J. Galbreath, DVM, PhD*
Kevin S. McDorman, DVM, PhD*
Aaron M. Sargeant, DVM, PhD*

Special Interest Groups
Donna Bouley, DVM, PhD*
Gary L. Cockerell, DVM, PhD*
Kendall S. Frazier, DVM, PhD*
Keith Mansfield, DVM, PhD*
Bruce H. Williams, DVM*

ACVP FOCUSED SCIENTIFIC GROUPS

Focused Scientific Group Chair
Shelley J. Newman, DVM, DVSc*

Focused Scientific Group Co-Chair and Awards Chair
Lauri J. Diehl, DVM, PhD*

Clinical Pathology
Jeffrey McCartney, DVM, MSc, DABT* (Chair)
Erica Behling-Kelly, DVM, PhD*
Sara L. Connolly, DVM, MS*
Niraj K. Tripathi, DVM*
Valerie M. Wong, DVM, MVetSc*

Diagnostic Pathology
Barbara Lewis, DVM* (Chair)
Eric Burrough, DVM, PhD*
Laura Kennedy, DVM*
Stephen A. Raverty, DVM, PhD*
Aline Rodrigues Hoffmann, DVM, PhD*
David S. Rotstein, DVM, MPVM* (Co-Chair)
Education
  Thomas E. Cecere, DVM, PhD* (Chair)
  Linden E. Craig, DVM, PhD* (Co-Chair)
  Rachel M. Peters, DVM*
  Melissa D. Sanchez, VMD, PhD*
  Arnaud J. Van Wettere, DVM, PhD*
  Amy L. Warren, BSc, BVSc* (Past Chair)

Experimental Disease
  Brandon L. Plattner, DVM, PhD* (Chair)
  Hibret Adissu, DVM, PhD*
  Katherine N. Gibson-Corley, DVM, PhD* (Past Chair)
  Mihai Gagea, DVM, DVSc*
  Laura Janke, DVM, PhD*
  Sebastien Monette, DVM, MVSc* (Co-Chair)
  Robert W. Read, DVM, PhD*

Industrial and Toxicologic Pathology
  Mike Conner, DVM* (Chair)
  Curtis Colleton, DVM*
  Torrie A. Crabbs, DVM*
  Daniela Ennulat, DVM, PhD* (Co-Chair)
  Kyathanahalli Janardham, BVSc, PhD*
  Katherine A. Knostman, DVM, PhD*
  Gopinath S. Palaisamy, MVSc, PhD*
  Vito G. Sasseville, DVM, PhD*
  Manu M. Sebastian, DVM, PhD* (Past Chair)

Natural Disease
  Ingeborg Langohr, DVM, PhD* (Chair)
  Gary Haldorson, DVM, PhD*
  Andrew D. Miller, DVM* (Co-Chair)
  Daniel R. Rissi, DVM, PhD*
  Jens-Peter Teifke, DVM* (Past Chair)
  Francisco A. Uzal, DVM, PhD*
  Nobuko Wakamatsu, DVM, PhD*

Chair
  Jennifer A. Neel, DVM*

Program Committee
  Cindy E. Fishman, VMD, PhD*
  Bruce E. LeRoy, DVM, PhD*
  Jeffrey McCartney, DVM, MSc, DABT*
  Joanne Messick, VMD, PhD*
  Nicole Rosen, MT(ASCP)
  Laura Snyder, DVM*
  Lynne T. Shannahan, BSMT
  Tracy Stokol, BVSc, PhD*
  Linda Vap, DVM*
REGISTRATION

The Registration Area will be located at the Imperial Ballroom Registration Desk and open during the following hours:

Saturday, November 8 ............................................ 7:00 a.m.–7:30 p.m.
Sunday, November 9 ............................................. 7:00 a.m.–5:00 p.m.
Monday, November 10 ............................................. 7:30 a.m.–1:30 p.m.
Tuesday, November 11 ............................................ 7:30 a.m.–5:00 p.m.
Wednesday, November 12 ....................................... 8:00 a.m.–1:00 p.m.

You will notice that there are fewer paper handouts this year and more information online and available through the smart phone application. We are making an effort to be more environmentally-friendly but still providing attendees with the information they need to have a successful conference. Please give us your feedback on the electronic evaluation form you receive by email after the meeting is over.

MEETING ROOMS

Please take time to explore the Atlanta Marriott Marquis to locate the session rooms for the ACVP/ASVCP meeting, so that it is not too confusing when you are trying to find them in a hurry! All the scientific sessions are located at the Marriott Marquis.

Marriott Marquis Hotel

*International Level (2 floors below the lobby level)*
- International Hall
- International B
- International A
- International C

*Marquis Level (1 floor below the lobby level)*
- Marquis Ballroom
- Imperial Ballroom
- M101
- M102
- M103
- M106
- M107
- M108
- M201
- M202
- M301
- M302
- M303

*Lobby Level*
- L401
- L402
- L501
- L504
- L506
- L508

ACVP PRESIDENTIAL RECEPTION

This year, the Presidential Reception will be held in the Imperial Ballroom on Tuesday, November 11 starting at 7:00 p.m. Each attendee and spouse/guest who registered in advance and checked the attendance box is entitled to one ticket to the Presidential Reception. Bring your badge with you as it will serve as your ticket to this Reception.

Thanks to Pfizer for sponsorship of this event!

ASVCP RECEPTION

All ASVCP members are invited to a reception being held on Monday, November 10, 5:15 p.m.–6:45 p.m., in Imperial Ballroom A. Please be sure to join your friends and colleagues!
SOCIAL MEDIA

Facebook: www.facebook.com
Please contribute to our ACVP Meetings and Topics Facebook page and our Student Facebook page during the Annual Meeting. Let other members know your impressions of the sessions you attend, as well as your overall experience at this year’s meeting in Atlanta.

Twitter: www.twitter.com
Want to stay connected with @ACVP and other meeting attendees? Are you excited about a session? Or a poster? Or want your friends to bid on a silent auction item for a great cause? Or you just found the best restaurant in Atlanta for lunch? Follow us on Twitter for information about sessions and new findings revealed by our presenters. We want to hear from you too! Hashtag your tweets #ACVPmeet or comments to @ACVP directly and keep us in the loop.

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

Wireless Internet Service
Wireless internet service will be available free of charge in your sleeping room and in the meeting space at the Marriott Marquis. The code to the wireless internet in the meeting space is ACVP2014. If you are traveling from another country, please check your cell phone plan for international rates. Otherwise, please put your phone on airplane mode while accessing the ACVP App at the Center (if previously downloaded).

CONTINUING EDUCATION CREDITS
This program was reviewed and approved by the AAVSB RACE program for a maximum of 48.5 hours of continuing education. Participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Please contact the AAVSB RACE program if you have any comments/concerns regarding this program’s validity or relevancy to the veterinary profession.

Verification of RACE credit will be sent to individuals by email after the meeting.

ACVP/ASVCP PROCEEDINGS ONLINE!
The ACVP/ASVCP Proceedings will be available online (after the meeting) at the International Veterinary Informational Service website (www.ivis.org). The IVIS library also includes veterinary textbooks and proceedings of major national and international veterinary organizations. Access to the IVIS Website is free, however, it is reserved for members of the veterinary community (practicing veterinarians, veterinary students, and technicians and scientists active in animal health). First-time visitors are required to complete a short registration form. Plan to visit the site in February to access the 2014 Proceedings!
CAREER CENTER

ACVP is once again hosting its Career Center at the 2014 Annual Meeting, offering an uncommon opportunity for recruiters, employers, veterinary pathologists, trainees, and students to meet each other, drop off or receive CVs, arrange on-site interviews or just explore opportunities in veterinary pathology.

The Career Center kicks off on Saturday in Room M201 at the Marriott Marquis Hotel.

Open hours are:
Saturday, November 8 ............................................3:00 p.m.–8:30 p.m.
Sunday, November 9 .............................................9:00 a.m.–5:00 p.m.
Monday, November 10 .........................................3:00 a.m.–5:00 p.m.
Tuesday, November 11 ..........................................9:00 a.m.–5:00 p.m.

The online Career Center continues until December 30 on the ACVP website at www.acvp.org.

INTERNET STATION

Sponsored by VIN

An Internet Station will be available during the following hours. It will be located in the Imperial Ballroom Foyer, near registration.

Saturday, November 8 ............................................1:00 p.m.–8:30 p.m.
Sunday, November 9 .............................................7:00 a.m.–7:30 p.m.
Monday, November 10 .........................................7:00 a.m.–5:00 p.m.
Tuesday, November 11 ..........................................7:00 a.m.–5:00 p.m.

ACVP BUSINESS MEETING/TOWN HALL MEETING

Sunday, November 9, 2014
6:00 p.m.–7:30 p.m.
Marquis Ballroom B

COMMUNITY SERVICE PROJECT:
CLEAN THE WORLD

Join other meeting attendees on Monday, November 10 at 1:30 p.m. in International C for the Community Outreach Activity (CO-Act). This year attendees will have the opportunity to assemble hygiene kits for some of Atlanta’s homeless shelters and food pantries. To participate, please contact Wendy Coe at wcoe@acvp.org. To learn more about the organization with whom ACVP is partnering, click on http://www.cleanteworld.org/one_project.asp.

Thank you for volunteering!
SPEAKER READY ROOM

The Speaker Ready Room is located in Room M102. Speakers (oral presenters) are required to download their presentation in the Speaker Ready Room prior to their session (please see the schedule below). The Speaker Ready Room will be open at the following times:

Saturday, November 8 ................................................. 12:00 noon–7:00 p.m.
Sunday, November 9 .................................................. 7:00 a.m.–6:00 p.m.
Monday, November 10 ................................................. 7:00 a.m.–6:00 p.m.
Tuesday, November 11 ............................................... 7:00 a.m.–5:00 p.m.
Wednesday, November 12 ................................. 7:00 a.m.–11:30 a.m.

Below are scheduled check-in times for speakers. Please review and make note of these times.*

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<th>If Your Presentation Date/Time is...</th>
<th>Then Your Time to Load Your Presentation is...</th>
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<tr>
<td>Sunday, November 9 8:00 a.m.–12:00 noon</td>
<td>Report prior to 7:00 p.m. on Saturday, November 8</td>
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<tr>
<td>Sunday, November 9 1:30 p.m.–5:00 p.m.</td>
<td>Report prior to 10:30 a.m. on Sunday, November 9</td>
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<tr>
<td>Monday, November 10 8:00 a.m.–12:00 noon</td>
<td>Report prior to 6:00 p.m. on Sunday, November 9</td>
</tr>
<tr>
<td>Tuesday, November 11 8:00 a.m.–12:00 noon</td>
<td>Report prior to 6:00 p.m. on Monday, November 10</td>
</tr>
<tr>
<td>Tuesday, November 11 1:30 p.m.–5:00 p.m.</td>
<td>Report prior to 10:30 a.m. on Tuesday, November 11</td>
</tr>
<tr>
<td>Wednesday, November 12 8:00 a.m.–12:00 noon</td>
<td>Report prior to 5:00 p.m. on Tuesday, November 11</td>
</tr>
<tr>
<td>Wednesday, November 12 1:00 p.m.–5:00 p.m.</td>
<td>Report prior to 10:30 a.m. on Wednesday, November 12</td>
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*All pre-meeting workshop presenters are to report to their meeting room thirty (30) minutes in advance of the beginning of the session. They do not need to check-in at the Speaker Ready Room. All other speakers need to report to the Speaker Ready Room (does not apply to poster presenters).

PROGRAM EVALUATION FORMS

A link to the online evaluation survey will be emailed to you after the meeting is over. Please complete the survey online. The Education Committee and Council review your comments and suggestions for use in future meetings. Complete your form by December 20 to be eligible to win a complimentary registration to the 2015 Annual Meeting in Minneapolis!
FOCUSED SCIENTIFIC POSTER SESSIONS

Focused Scientific Posters will be available for viewing in the International Hall at the following times:

Sunday, November 9 .............................................. 9:30 a.m.–4:30 p.m.
Monday, November 10 ............................................ 9:30 a.m.–1:00 p.m.
Tuesday, November 11 ........................................... 9:30 a.m.–3:30 p.m.

Poster Setup:
Sunday, November 9 .............................................. 7:00 a.m.–9:00 a.m.

Poster Teardown:
Tuesday, November 11 ............................................ 3:30 p.m.–4:30 p.m.

Session chairs at the Focused Scientific Session platform presentations will be asking their attendees to visit the posters of their respective focused groups during the refreshment break. Please plan to be at your poster during the refreshment break times corresponding with the Focused Scientific Group platform presentations. Please see below for the corresponding refreshment breaks and when you need to be present at your poster:

• **Clinical Pathology Posters**: Refreshment breaks on Sunday afternoon and Tuesday morning
• **Diagnostic Pathology Posters**: Refreshment breaks on Sunday afternoon and Tuesday afternoon
• **Education Posters**: Refreshment break on Tuesday morning
• **Experimental Disease Posters**: Refreshment breaks on Sunday afternoon and Tuesday afternoon
• **Industrial and Toxicologic Pathology Posters**: Refreshment breaks on Sunday morning and Tuesday afternoon
• **Natural Disease Posters**: Refreshment breaks on Sunday morning and Sunday afternoon

**ACVP Veterinary Student Posters** will be available for viewing in International Hall during the same hours as listed above. The setup and teardown dates and times are the same as the Focused Scientific posters.

SILENT AUCTION

ACVP is proud to present its 11th Annual Silent Auction at the 2014 Annual Meeting! Located in International Hall, the Silent Auction will support externship scholarships for veterinary students exploring veterinary pathology as a career.

Visit the Silent Auction to place your bid on a treasure trove of items contributed by ACVP members and exhibitors. Silent Auction bids will be closed at 10:30 a.m. on Tuesday, November 11. The highest bids/bidders will be announced on Tuesday afternoon at the Silent Auction area. Plan to pick up your Silent Auction item at the ACVP Registration Desk located in the Imperial Ballroom Foyer prior to 1:00 p.m. on Wednesday, November 12.
**MICROSCOPES AND SLIDE SETS**

**Mystery Slide Review: Comparative Oncology**
Sunday, November 9, 7:30 p.m.–9:30 p.m. in Marquis Ballroom A.

Slide sets will be available for review in International Hall on Sunday and Monday. Microscopes will be available at Marquis Ballroom A one hour prior to the session.

**ASVCP Case Discussion Session**
Monday, November 10, 1:30 p.m.–3:30 p.m. in Marquis Ballroom A.

Slide sets will be available for review in International Hall on Sunday and Monday.

Please be sure to leave the slide sets intact when you are finished so that others can review them.

**Mystery Slide Review and Neuropathology Case Presentations**
Monday, November 10, 7:00 p.m.–9:30 p.m. in Marquis Ballroom A.

Slide sets will be available for viewing in International Hall on Sunday, November 9 from 9:30 a.m.–4:30 p.m. Microscopes will be available at Marquis Ballroom A one hour prior to the session.

You can preview the Mystery Slide Session slides by going to www.scanscope.com and clicking on the ACVP folder. Viewing is available for all PC and Mac users with WebViewer.

ACVP thanks Leica Biosystems-Aperio Technologies for facilitating the slide previews!

**SPOUSE/GUEST REGISTRATION**

Registration of a guest, spouse, or partner is $65. This admits your guest to the ACVP Presidential Reception on Tuesday evening if they were pre-registered and indicated an interest in going. It also allows them access to the other social activities at the meeting as well as the Student/Guest Hospitality area.

The Student and Guest Hospitality area will be open at the following times in the Room M107.

- Sunday, November 9 .............................................. 8:00 a.m.–5:00 p.m.
- Monday, November 10 ......................................... 8:00 a.m.–5:00 p.m.
- Tuesday, November 11 ...................................... 8:00 a.m.–5:00 p.m.
- Wednesday, November 12 ............................. 8:00 a.m.–11:00 a.m.

Meet friends and other guests in this area. All students are welcome.

If you have any questions, please visit the ACVP Registration area in the Imperial Ballroom Foyer.
EXHIBITORS

Exhibits are located in International Hall. All refreshment breaks, poster sessions, and the Silent Auction are located there, too. Plan time in your schedule to visit the exhibits!

**Open hours:**
- Saturday, November 8: 7:00 p.m.–8:30 p.m. Opening Reception
- Sunday, November 9: 9:30 a.m.–4:30 p.m.
- Monday, November 10: 9:30 a.m.–1:00 p.m.
- Tuesday, November 11: 9:30 a.m.–3:30 p.m.

See page 113 of this final program book for a listing of exhibiting companies.

FUTURE ANNUAL MEETING DATES AND SITES

**2015 Annual Meeting**
Combined with the Society of Toxicologic Pathology
October 17-21
Minneapolis Convention Center, Minneapolis, Minnesota USA

**2016 Annual Meeting**
December 3-7
Hyatt Regency Hotel, New Orleans, Louisiana, USA

**2017 Annual Meeting**
November 4-8
Vancouver Convention Centre, Vancouver, BC, Canada
The following Council Members will soon be ending their terms. The Council extends its gratitude to these dedicated volunteers.

Maxey Wellman, DVM, PhD*
David Malarkey, DVM, PhD*

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Robin Allison, DVM, PhD*

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Jennifer Johns, DVM, PhD*
COMMITTEE MEETINGS

The following committee meetings are scheduled at the ACVP/ASVCP Annual Meeting.

FRIDAY, NOVEMBER 7

ASVCP Executive Board
3:00 p.m.-9:00 p.m.; L501

ACVP Council
5:00 p.m.-7:00 p.m., L504

SATURDAY, NOVEMBER 8

ACVP Council
8:00 a.m.-5:00 p.m.; L504

ASVCP Executive Board
8:00 a.m.-4:00 p.m.; L501

ACVP Council and ASVCP Executive Board Meeting
12:00 noon-1:30 p.m.; Windows, Sear Restaurant

Veterinary Pathology Editors Luncheon
12:00 noon-2:00 p.m.; M106

ACVP Maintenance of Certification Development Committee
3:00 p.m.-5:00 p.m.; M302

ASVCP Executive Board and Committees
4:00 p.m.-6:00 p.m.; Room L508

ACVP Education Committee
5:00 p.m.-8:00 p.m.; M303

Exam Committee
6:00 p.m.-9:00 p.m.; M101

ASVCP Education Committee
8:00 p.m.-9:00 p.m.; M106

SUNDAY, NOVEMBER 9

ASVCP Regulatory Affairs Committee
6:30 a.m.-8:00 a.m.; M108

ACVP Council and Exam Committee
7:00 a.m.-8:00 a.m.; L402

ASVCP Outreach Committee
7:00 a.m.-8:00 a.m., Meeting Offsite at Metro Cafe Diner

Veterinary Pathology Editorial Board Meeting
8:00 a.m.-9:30 a.m.; L401

ACVP Council
8:00 a.m.-5:00 p.m.; L504
Veterinary Clinical Pathology Editorial Board Meeting  
12:00 noon-1:30 p.m.; M301

**MONDAY, NOVEMBER 10**

ACVP Journal Implementation Task Force  
7:00 a.m.-8:00 a.m., M108

ASVCP Program Committee  
7:00 a.m.-8:00 a.m.; M303

ASVCP Quality Assurance and Standards Committee  
7:00 a.m.-8:00 a.m.; L401

Certifying Examination Board  
7:00 a.m.-9:00 a.m.; M106

Training Program Committee  
7:00 a.m.-8:00 a.m.; M301

Phase 1 General Pathology Exam Committee Meeting  
12:00 noon-5:00 p.m.; M106

ACVP Council and Education Committee  
12:15 p.m.-1:15 p.m.; M301

ACVP Development Committee  
12:15 p.m.-1:15 p.m.; L401

2015 Annual Meeting Planning Meeting  
1:15 p.m.-2:15 p.m.; M301

2014 Council Leadership Meeting  
3:00 p.m.-4:00 p.m.; Room 302

**TUESDAY, NOVEMBER 11**

ASVCP Veterinary Laboratory Professionals Program Committee  
7:00 a.m.-8:00 a.m.; L401

Awards Committee  
7:00 a.m.-8:00 a.m.; M108

International Alliances Committee  
7:00 a.m.-8:00 a.m.; M303

Lifelong Learning Committee  
7:00 a.m.-8:00 a.m.; M106

ACVP Council  
8:00 a.m.-5:00 p.m.; L504

Training Program Network Meeting  
12:00 noon-1:30 p.m.; M202

Congress of Committees  
2:30 p.m.-4:30 p.m.; Room M301
ACVP & ASVCP 2014 • Atlanta, GA

WEDNESDAY, NOVEMBER 12

Focused Scientific Groups Meeting
7:00 a.m.-8:00 a.m.; M103

ACVP Council
8:00 a.m.-12:00 noon; L504

CONCURRENT EVENTS

SATURDAY, NOVEMBER 8

Poultry Respiratory Disease Group
8:00 a.m.-5:00 p.m.; M302

Japanese Group of ACVP (JaGA)
8:00 p.m.-10:00 p.m.; Room M302

SUNDAY, NOVEMBER 9

ACVP Veterinary Student Breakfast
7:00 a.m.-8:00 a.m.; Room L508

Pathology Chairs Breakfast
7:00 a.m.-9:00 a.m.; Room M101

IDEXX Veterinary Pathology Resident/Trainee Luncheon
12:00 noon-1:30 p.m.; Imperial Ballroom A

Council and Corporate Partners Reception
5:00 p.m.-6:00 p.m.; Room M101

Cornell University College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.; Room M301

Antech Diagnostics Reception
7:30 p.m.-9:30 p.m.; Imperial Ballroom A

North Carolina State University College of Veterinary Medicine Alumni Reception
7:30 p.m.-9:00 p.m.; Room L508

Washington State University College of Veterinary Medicine Alumni Reception
7:30 p.m.-9:30 p.m.; Room M101

Standard Setting for Diagnostic Flow Cytometry and Antigen Receptor PCR
8:00 p.m.-10:00 p.m.; L401, (by invitation only)
MONDAY, NOVEMBER 10

The Latin Comparative Pathology Group Presents
12:15 p.m.-3:00 p.m.; Room M103

Veterinary Student and Resident Forum
3:00 p.m.-5:00 p.m.; Imperial Ballroom B

C.L. Davis Foundation Reception
5:00 p.m.-6:30 p.m.; Marquis Ballroom D

ASVCP Reception (open to ASVCP members)
5:15 p.m.-6:45 p.m.; Imperial Ballroom A

IDEXX Reception
5:30 p.m.-7:00 p.m.; Room M101

VCS/ACVP Oncology Pathology Working Group Business Meeting
5:45 p.m.-6:45 p.m.; Room M103

Comparative Pathologists Consortium Reception
6:00 p.m.-8:00 p.m.; Room L506

Iowa State University College of Veterinary Medicine Alumni Reception
6:30 p.m.-8:00 p.m.; Room M202

University of Georgia College of Veterinary Medicine Alumni Reception
6:30 p.m.-8:00 p.m.; Room L401

Colorado State University College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.; Room L508

Ohio State University College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.; Pulse Loft

University of California-Davis College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.; Room M301

TUESDAY, NOVEMBER 11

ACVP Legacy Society Breakfast
7:00 a.m.-8:00 a.m.; Room L503

International Veterinary Pathology Coalition
8:00 a.m.-10:00 a.m.; M101

ACVP/STP Coalition for Veterinary Pathology Business Luncheon
12:00 noon-1:30 p.m.; Room L508

ACVP/STP Coalition for Veterinary Pathology Fellows Board of Governors Meeting
1:30 p.m.-3:30 p.m.; Room L401

ACVP Presidential Reception
7:00 p.m.-9:30 p.m.; Imperial Ballroom
AWARDS

ACVP/AAVLD DIAGNOSTIC PATHOLOGY TRAVEL AWARD

The American College of Veterinary Pathologists (ACVP) and the American Association of Veterinary Laboratory Diagnosticians (AAVLD) encourage trainees in veterinary pathology to participate in the Annual Meetings of both organizations. The Sixth Annual ACVP/AAVLD Diagnostic Pathology Travel Award is available to graduate students and/or residents in veterinary pathology for travel to and participation in the Annual Meeting of the AAVLD. The recipient will be awarded a $1,000 grant from the ACVP to help defray travel and lodging costs associated with attending the AAVLD Annual Meeting. The recipient will be granted a waiver for the AAVLD meeting registration fee. The recipient will be announced at the ACVP Awards and Recognition Event on Tuesday, November 11, from 5:15 p.m.–6:45 p.m. in Marquis Ballroom A.

ACVP/AAVLD Travel Award Judges
Angela E. Ellis, DVM, PhD*
Robert A. Foster, BVSc, PhD*
Sreekumari Rajeev, DVM*

ACVP YOUNG INVESTIGATOR AWARDS

The ACVP has established a Young Investigator Award Poster Competition in four categories: diagnostic pathology, experimental disease, industrial and toxicologic pathology, and natural disease. Each of these categories will have monetary awards of $500 for first place, $300 for second place, and $200 for third place. Judging will take place at the Annual Meeting.

The ACVP Young Investigator Award winners’ names will be announced to the membership at the ACVP Awards and Recognition Event (Tuesday, November 11 at 5:15 p.m. in Marquis Ballroom A). Winners are asked to come to the front of the room for a photo after the event.

Recipients of the 2014 ACVP Young Investigator Awards are asked to display their poster in the Marquis Ballroom Foyer on Wednesday, November 12, from 8:00 a.m.–12:00 noon. Posterboards will be provided for the display.

ACVP Young Investigator Award Judges

Diagnostic Pathology
Jamie N. Henningston, DVM, PhD*
Lanny Pace, DVM, PhD*
Nancy L. Stedman, DVM, PhD*

Experimental Disease
John M. Cullen, VMD, PhD*
Richard Luong, BVSc*
Arlin B. Rogers, DVM, PhD*
Joshua D. Webster, DVM, PhD*

*ACVP Diplomate
ASVCP LIFETIME ACHIEVEMENT AWARD

Congratulations to Drs. Rick Cowell and Ron Tyler! The ASVCP Lifetime Achievement Award, established in 2004, recognizes members of the Society who have contributed to the advancement of the field of veterinary clinical pathology. The award is presented at our Annual Meeting. A call for nominations for the award is put out to ASVCP members. This year, dual awards are being presented to two Society members who have had a close association with one another.

Drs. Cowell and Tyler both received DVM degrees and residency training in pathology from Oklahoma State University. Dr. Cowell received his MS degree and Dr. Tyler his PhD from that same institution. Both are board certified as clinical pathologists by the ACVP, and Dr. Tyler is also certified as an anatomic pathologist. Each spent a portion of his career on the faculty of OSU’s College of Veterinary Medicine, though both also have had significant professional accomplishments at other institutions. They are perhaps most widely known for their classic texts, Diagnostic Cytology and Hematology of the Dog and Cat and Diagnostic Cytology and Hematology of the Horse, first published in 1989 and 1992, respectively. The following passages from letters of support for the dual nomination of these two fine individuals give insight into the contributions they have made:

Why are they deserving of this award? Just say the words ‘Cowell and Tyler’ in any roomful of veterinary clinical pathologists, anywhere in the world, and the reason will be clear. Every clinical pathologist and trainee alive knows the original ‘bible’ of veterinary cytology by that name! During my residency training that text was always within arm’s reach, as the new edition is today. Not all books can stand the test of time, but this remains as significant a contribution to veterinary clinical pathology as was the first edition published over 20 years ago.—Robin W. Allison, DVM, PhD, Diplomate ACVP; Oklahoma State University

From the early years of my interest in Veterinary Clinical Pathology as a veterinary undergraduate and as a veterinary clinical pathology resident, the Diagnostic Cytology and Hematology of the Dog and Cat and the Diagnostic Cytology and Hematology of the Horse were my core textbooks. Even as I progress through my career I frequently refer back to these texts.—Kate English, BSc, BVetMed, FRCPath, MRCVS; Royal Veterinary College, University of London
The initiative of Drs. Cowell and Tyler to help train students, practicing veterinarians, and residents in the art of cytology is inspiring. And their outreach beyond the textbook has been extensive, both regarding presentations on interpretation of clinical pathology and research that has enhanced our knowledge of clinical pathology.—Mary Nabity DVM, PhD, Diplomate, ACVP; Texas A&M University.

Both Rick and Ron have endless achievements, publications, and talks behind them, and ahead of them as well. Many students have benefitted from their generosity and knowledge.—Amy C. Valenciano, DVM, MS, Diplomate ACVP; IDEXX Laboratories, Dallas.

They say a teacher can be a changing factor in someone’s life if they improve both your professional and personal life. Rick Cowell was one of those for me. Because of his books, journal articles, conferences and other scientific contributions, Rick Cowell was a pioneer that literally helped define our specialty.—Sylvie Beaudin DVM, Diplomate ACVP; IDEXX Laboratories, Montreal.

Although I “know” Drs. Cowell and Tyler best because of their book, I also have had the opportunity to meet both at professional meetings and through committee work. Given their towering reputation in the field, one might expect a level of arrogance from the two, but this is entirely missing. Rather, both are extremely friendly and generous…. They have done much more in the field than just write a book. Both have been huge contributors in all aspects of clinical pathology including teaching, service, research, and industry.—David Fisher, DVM, Diplomate ACVP; IDEXX Laboratories, West Sacramento.

They are probably best known for their cytology textbook, which was the first comprehensive, organ based veterinary cytology text. It has undergone 3 editions, and the second edition was translated into Spanish, Italian, Japanese, and Korean. In addition, both have served on the ACVP certifying exam committee, published numerous diagnostic clinical pathology manuscripts and book chapters, and made many continuing education presentations. Both have served in academia as well as private diagnostic labs. Ron, of course, also has extensive experience in the pharmaceutical industry. More importantly, both are just very good people, the kind you enjoy being around. In a world that is sometimes driven by egos and territorialism, both are humble and down-to-earth people best known for an ever-present smile, infectious laughter, and a firm belief that life is to be enjoyed—at work as well as during your free time.—James Meinkoth, DVM, PhD, Diplomate ACVP; Oklahoma State University

ASVCP YOUNG INVESTIGATOR AWARD

The ASVCP presents a $500 Young Investigator Award to the resident or graduate student whose oral platform presentation is judged best among the competing presentations. Eligibility requirements include a degree in veterinary medicine and enrollment in a residency or graduate program in pathology/clinical pathology or a related discipline. The oral presentation must describe original work of the competitor involving clinical or experimental research that relates to clinical pathology. Award selection is determined by an independent panel of judges and is based on the scientific content, abstract composition, clarity of presentation, and the contestant’s ability to answer questions. The recipient of the ASVCP Young Investigator Award will be announced at the start of the ASVCP Mystery Slide Case Session scheduled for Tuesday, November 11 at 1:30 p.m. in Marquis Ballroom A.
Judges
Mehrdad Ameri, DVM, PhD*
Laura Cregar, DVM*
Kristen R. Friedrich, DVM*
Judith Radin, DVM, PhD*
Angela B. Royal, DVM*

SOCIETY OF TOXICOLOGIC PATHOLOGY
(STP) STUDENT POSTER AWARD

Purpose
The Society of Toxicologic Pathology (STP) is pleased to announce the Eighth Annual STP Student Poster Award to encourage students to pursue careers in the field of Toxicologic Pathology. The award recipient will receive free registration plus $1,000 to be used for lodging and travel to the 2015 ACVP/STP Joint Annual Meeting, which will take place October 17-21, in Minneapolis, MN, and may be asked to present the poster at that meeting.

Eligibility
To be eligible to compete for this award, students must be currently enrolled in a veterinary medicine program, or have obtained a degree in veterinary medicine and be enrolled in a residency or graduate program in toxicologic pathology/general pathology/clinical pathology or a related discipline. The abstract must describe original work of the competitor involving clinical or experimental research that relates to industrial and/or toxicologic pathology. The content may include in vitro or in vivo studies. The award selection will be determined by an independent panel of judges and will be based on the scientific content, composition of the poster, clarity and the presenter’s ability to answer questions. Trainees in clinical and/or morphologic pathology are encouraged to apply for the award.

Application and Selection Procedure
The award will be given to the veterinary resident or graduate student whose poster is judged best among up to five finalists at the ACVP/ASVCP Annual Meeting. The applicant should follow the guidelines for application for the ACVP YIA in Industrial and Toxicologic Pathology to be eligible for this award.

Award Announcement
The recipient will be announced at the ACVP Awards and Recognition Event on Tuesday, November 11, 5:15 p.m.–6:45 p.m. in Marquis Ballroom A.

Student Poster Award Judges
Bernard S. Buetow, DVM, PhD*
Wayne Dochterman, DVM*

VETERINARY STUDENT POSTER AWARDS

For the 10th year in a row, ACVP is offering an award for veterinary students, which requires submission of an abstract followed by a quality poster presentation of pathology-related research work or clinical case material. The posters will be judged by the Student Chapter Committee representatives during the Annual Meeting. There will be two awards this year, one for an experimental disease poster and one
for a clinical case report/series. A monetary prize of $250 will go to the recipients (for group entries, the award is split among members) with another award of $250 to the recipients’ ACVP-recognized Student Chapter. Awards will be announced at the ACVP Awards and Recognition Event, on Tuesday, November 11 at 5:15 p.m. in Marquis Ballroom A. Candidates are encouraged to attend!

Veterinary Student poster abstracts are available on the ACVP website at www.acvp.org and on the mobile app.

Veterinary Student Poster Award Judges

Experimental Disease:
  Barbara G. McMahlill, DVM*
  Kaori Sakamoto, DVM, PhD*

Clinical Series/Case Report:
  Aline Rodrigues Hoffmann, DVM, PhD*
  Duncan S. Russell, BVMS(Hons)*

SAFETY AND SECURITY

To ensure the safety and security of our attendees and guests, we have composed the following list of safety rules and guidelines for this conference.

1. Always check the fire evacuation routes on the back of your hotel room door when you arrive. Know where your exit is located.

2. In case of an emergency while at the Marriott Marquis, please dial 0 on a house phone, or notify any Marriott employee or ACVP staff. Security will assess the situation and notify the proper authorities.

3. For emergency aid of any kind, call 911 from any telephone outside of the hotel grounds.

4. Review fire safety evacuation plans located on the walls near the event rooms at the Marriott. Take note of the location of fire stairwells, manual fire alarms, and fire extinguishers. If an alarm is activated at the Marriott, move toward the fire exits. In case of emergency, all elevators will return to the first floor, it is forbidden to use any escalators during this kind of situation. Listen carefully to any audio messages and instructions from the Marriott staff. Staff and security officers will assist participants in moving outside of the building.

5. Ask at the Marriott front desk or concierge desk about the neighborhood around the hotel so you know what streets to avoid. Be aware of your surroundings while walking around downtown. Like any major city, Atlanta is not immune from crime. Exercise caution at all times. Keep your bags and purses close to you when walking outside.
6. When inside the conference venue, nametags should be worn and visibly displayed at all times. Security will ask for you to show your badge. You will not be allowed to enter meeting rooms or exhibit areas without them.

For security reasons, we recommend that you DO NOT wear your badge outside of the conference venue. If you lose your badge, please notify registration immediately. Walk in groups or take a taxi if walking long distances at night.

7. Don’t answer the door in a hotel room without verifying who it is. If a person claims to be an employee, call the front desk and ask if someone from their staff is instructed to perform a work task in your room.

8. Close the door securely whenever you are in your hotel room and use all of the locking devices provided.

9. When returning to your hotel late in the evening, use the main entrance. Be observant and look around before entering parking lots.

10. Place all valuables in the hotel’s safe deposit box or the safe in your room.

11. Do not leave any items of value in your vehicle in the parking lot.

12. Please do not leave any bags or articles unsecured in any display area, meeting room, or public areas.

13. If you note any suspicious article, packages, persons, or activity please contact the ACVP staff at the registration desk or hotel security immediately (dial 0 on a house phone).

14. Do not give your lodging information to any person.

15. Do NOT open any fire exit or other access door to any person. Access to the conference is strictly for members and registered conference guests. All access to display areas and meetings is through the appropriate entrance doors.

16. If you see a demonstration or protest beginning, please contact any member of the Annual Meeting staff or security at the ACVP registration desk. They will initiate our Demonstration Response Plan. If you see actions that appear threatening, contact security at once.

17. Attendees at this conference are expected to maintain a level of decorum appropriate to the nature and purpose of our meeting. While exchange and debate is welcome where appropriate, any person who is disruptive or abusive in language or manner will be removed and barred from further conference proceedings.

Thank you for attending this meeting, and we hope you enjoy your experience.
7:00 a.m.-7:30 p.m. ..................Imperial Ballroom Registration Desk
Registration

8:00 a.m.-5:00 p.m. .................................Marquis Ballroom D
ASIP/ACVP Pre-Meeting Workshop: Image Science in the
21st Century: Opportunities for Pathology Investigation and
Diagnostics
Session Chair: John Tomaszewski, MD+
(available for an additional fee)

8:00 a.m.-5:00 p.m. .................................Marquis Ballroom C
ACVP Pre-Meeting Workshop: Understanding the Mouse
Immune System: Relevance for Study of Human Disease
Session Chairs: David K. Meyerholz, DVM, PhD, DACVM**
Katherine N. Gibson-Corley, DVM, PhD**
Alicia K. Olivier, DVM, PhD**
(available for an additional fee)

9:00 a.m.-5:30 p.m. ................................. Marquis Ballroom A
ASVCP Pre-Meeting Workshop: The Ins and Outs of the
Kidney
Session Chair: Nicole K. Rosen, MT(ASCP)
(available for an additional fee)

12:00 noon-7:00 p.m. ..................................Room M102
Speaker Ready Room

1:00 p.m.-8:30 p.m. ...............................Imperial Ballroom Foyer
Internet Station
Sponsored by VIN

3:00 p.m.-8:30 p.m. ..................................Room M201
Career Center

5:15 p.m.-6:15 p.m. ................................. Marquis Ballroom D
ACVP Editors Workshop
Session Chair: Jeff Caswell, DVM, DVSc, PhD*

6:00 p.m.-8:00 p.m. ................................. Marquis Ballroom A
ASVCP Teaching Clinical Pathology: Use of the Flipped
Classroom Model for Teaching Veterinary Clinical Pathology
in a Large Class Setting
Session Chair: Jed Overmann, DVM*

*ACVP Diplomate  +ASIP Member
6:15 p.m.-7:15 p.m. ......................................... Marquis Ballroom C
What are the “New Rules” for Landing the Job I Want?
Sponsored by IDEXX

This interactive panel session is designed to help you have an insider view of job seeking, networking, interviewing, and successfully receiving the best offer that you can get. Attendees at this session will have the opportunity to ask questions and hear candid advice from recruitment decision managers in the veterinary pathology space. Please join us for an engaging, helpful and fun panel discussion that will help you navigate the “New Rules” and land the job you want.

7:00 p.m.-8:30 p.m. ............................................. International Hall
Opening Reception
(cash bar and light hors d'oeuvres)
ASVCP Education Symposium: Advances in Diagnostic Testing: New Modalities, Quality Assurance and Ethical Considerations

Session Chair: Jennifer Neel, DVM*

8:00 a.m.-8:10 a.m.  
Introduction  
Jennifer Neel, DVM*

8:10 a.m.-9:00 a.m.  
Applications of MALDI-TOF Mass Spectrometry in a “One Health” Microbiology Laboratory Practice  
Thomas R. Fritsche, MD, PhD, DABCP, DABMM

9:00 a.m.-9:50 a.m.  
Distinguishing Assessment of Analytical and Diagnostic Performance With an Emphasis on Bias  
Bente Flatland, DVM, MS, DACVIM*

9:50 a.m.-10:20 a.m.  
Development of Dried Plasmodium Alciparum Samples for Quality Control of Malaria Rapid Diagnostics Tests and as Proficiency Testing Panels  
Michael Aidoo, PhD

10:20 a.m.-11:10 a.m.  
Ethical Issues in Testing and Test Development: What Is the Role of the Pathologist  
Matthew McQueen, MBChB, PhD, FRCPC, HonFRCPath
8:00 a.m.-12:00 noon .............................................. Marquis Ballroom C

Concurrent Session I: Comparative Mouse Pathology
Session Chair: Kelli Boyd, DVM, PhD*
Session Co-Chairs: Piper M. Treuting, DVM, MS**+
Robert Cardiff, MD, PhD

8:00 a.m.-8:10 a.m.
Introduction
Kelli Boyd, DVM PhD*

8:10 a.m.-9:05 a.m.
One Medicine and Genomic Pathology: How the Mouse Has Advanced Human Oncology
Robert Cardiff, MD, PhD

9:05 a.m.-10:00 a.m.
Comparative Histology of Mice and Humans: Misinterpretation of Normal
Piper M. Treuting, DVM, MS**+

10:00 a.m.-10:30 a.m. .............................................. International Hall Refreshment Break

10:30 a.m.-11:15 a.m.
It’s All Phenotyping: Resources for Lots of Research
Cory Brayton, DVM, DACLAM*

11:15 a.m.-11:55 a.m.
All Things Considered: How Strain, “Normal Pathology,” and Other External Factors Impact Results in Mouse Experiments
Kelli Boyd, DVM, PhD*

11:55 a.m.-12:00 noon
Questions and Discussion

Supported by Genentech

8:00 a.m.-12:00 noon .............................................. Marquis Ballroom B

Career Development: Brand Recognition: Professional and Personal Branding for Your Career
Session Chair: Erin Brannick, DVM, MS*
Session Co-Chair: Michael D. Lairmore, DVM, PhD*

8:00 a.m.-9:05 a.m.
Professional Branding: Redefining Veterinary Pathology
Michael D. Lairmore, DVM, PhD*

9:05 a.m.-10:00 a.m.
Personal Branding: Determining Your Professional Niche
Donna M. Bouley, DVM, PhD*

10:00 a.m.-10:30 a.m.
International Hall Refreshment Break
10:30 a.m.-11:25 a.m.
Building Brand Loyalty: Contributing to Institutional Success
Michelle L. Haven, DVM, PhD

11:25 a.m.-12:00 noon
Developing Your Brand Workshop and Panel Discussion

8:00 a.m.-10:50 a.m. .................................................... Room M103
Industrial and Toxicologic Pathology Focused Scientific Session I
Session Chair: M. Conner+
Committee Members: C. Colleton, T. Crabbs, D. Ennulat
(Chair), R. Knostman, J. Kyathanahalli, G. Palaisamy, V. Sasseville, and M. Sebastian (Past Chair)

Platform Presentations

8:00 a.m.-8:05 a.m.
OPENING REMARKS

8:05 a.m.-8:50 a.m.
Invited Speaker
INTEGRATING PATHOLOGY AND TOXICOLOGY WITH GENETICS USING MAGIC MICE
J. French

8:50 a.m.-9:10 a.m.
EXPERIMENTALLY-INDUCED GLOMERULAR IMMUNE COMPLEX DISEASE IN CYMONOLGUS MACAQUES:
MORPHOLOGIC AND URINALYSIS FINDINGS
T. Brown, W. Reagan, L. Reed, and C. Kampschroer
Keyword: Urinary System

9:10 a.m.-9:30 a.m.
IMMUNOHISTOCHEMICAL CHARACTERIZATION OF GASTROINTESTINAL SMOOTH MUSCLE TUMORS IN RATS
Keyword: Alimentary

9:30 a.m.-10:00 a.m. .................................................... International Hall
REFRESHMENT BREAK — VISIT THE INDUSTRIAL AND TOXICOLOGIC PATHOLOGY POSTERS!

10:00 a.m.-10:50 a.m.
Invited Speaker
BACKGROUND FINDINGS THAT CONFOUND STUDY INTERPRETATION, RODENTS AND DOGS
P. Mann
Natural Disease Focused Scientific Session I
Session Chair: I. Langohr
Committee Members: G. Haldorson, A. Miller (Co-Chair), D.R. Rissi, J.P. Teifke (Past Chair), F. Uzal, and N. Wakamatsu

Platform Presentations

8:00 a.m.-8:15 a.m.
DISTINCTIVE PATTERNS OF OSTEOMYELITIS SECONDARY TO PERIODONTAL DISEASE IN CATS
C.M. Bell and J.W. Soukup
Keyword: Alimentary

8:15 a.m.-8:30 a.m.
PROGNOSTIC SIGNIFICANCE OF THE HISTOLOGIC SUBTYPE OF CANINE MAMMARY TUMORS: A TWO-YEAR PROSPECTIVE FOLLOW-UP STUDY ON 229 DOGS
R. Rasotto, D. Berlato, M.H. Goldschmidt, and V. Zappulli
Keyword: Mammary

8:30 a.m.-8:45 a.m.
CLINICAL OUTCOMES AND HISTOPATHOLOGICAL AND IMMUNOHISTOCHEMICAL CHARACTERISTICS OF FELINE HODGKIN-LIKE LYMPHOMA
A.C. Durham, A.R. Musciano, P. Rosenstein, and X. Han
Keyword: Neoplasia

8:45 a.m.-9:00 a.m.
CANINE CNS LYMPHOMA: SPECIFIC HISTOLOGICAL SIGNATURE PATTERNS ARE ASSOCIATED WITH BOTH DIFFERENT IMMUNOPHENOTYPIC SUBTYPES AND DISTINCTIVE MRI PROFILES
Keyword: Nervous System

9:00 a.m.-9:15 a.m.
IMMUNOPHENOTYPIC CHARACTERIZATION OF THE IMMUNE CELL MICROENVIRONMENT IN CANINE OLIGODENDROGLIOMAS
E.A. Sloma and A.D. Miller
Keyword: Nervous System

9:15 a.m.-10:00 a.m.
Invited Speaker
NEW CONCEPTS OF VASCULAR AND VASOGENIC CNS DISEASES
K. Matiassek

10:00 a.m.-10:30 a.m. ......................................................... International Hall REFRESHMENT BREAK — VISIT THE NATURAL DISEASE FOCUSED SCIENTIFIC POSTERS!
10:30 a.m.-10:45 a.m.  
RECURRENCE DISEASE OUTBREAKS ASSOCIATED WITH DUAL INFECTION BY CANINE PARVOVIRUS 2 (CPV-2) AND DOG CIRCOVIRUS (DCV) IN A PAPILLON BREEDING COLONY  
T. Thaiwong, A.G. Wise, R.K. Maes, T. Mullaney, and M. Kiupel  
Keyword: Infectious Disease

10:45 a.m.-11:00 a.m.  
GLOMERULAR LIPIDOSIS IN DOGS: A LESION ON THE SPECTRUM OF FOCAL SEGMENTAL GLOMERULOSCLEROSIS  
R. Kohnken and R. Cianciolo  
Keyword: Urinary System

11:00 a.m.-11:15 a.m.  
PRIMARY FOCAL SEGMENTAL GLOMERULOSCLEROSIS IN MINIATURE SCHNAUZERS  
W. Yau, L. Mausbach, and C. Brown  
Keyword: Urinary System

11:15 a.m.-11:30 a.m.  
INTEGRATED ANALYSIS OF RENAL MORPHOLOGY AND GENE EXPRESSION DURING PROGRESSION OF CANINE X-LINKED HEREDITARY NEPHROPATHY  
Keyword: Urinary System

11:30 a.m.-11:45 a.m.  
CO-INFECTION BY HEMOSPORIDIA AND ANAPLASMATAEAE AGENTS IN WILD ORINOCO GOOSE (Neochen jubata) IN BRAZIL  
Keyword: Wildlife

11:45 a.m.-12:00 noon  
INITIAL DETECTION AND LABORATORY INVESTIGATION OF DISEASE CAUSED BY WELLFLEET BAY VIRUS, AN EMERGING PATHOGEN OF COMMON EIDERS (Somateria mollissima)  
V. Shearn-Bochsler, A. Ballmann, J. Hall, H. Ip, and C. Dwyer  
Keyword: Wildlife

9:00 a.m.-5:00 p.m. .................................................................Room M201  
Career Center

9:30 a.m.-4:30 p.m. ......................................................... International Hall  
Exhibits and Poster Session

12:00 noon-1:30 p.m.  
Lunch Break (on your own)
12:15 p.m.-1:15 p.m. .................................................. Marquis Ballroom B
Emerging Disease Focus Seminar: Avian Influenza: Setting the Stage for a Global Pandemic?
Session Chair: David K. Meyerholz, DVM, PhD, DACVM**+

12:15 p.m.-12:40 p.m.
Resurgence of HPAI in Birds and Mechanisms of Transmission
David E. Swayne, DVM, PhD*

12:40 p.m.-1:05 p.m.
Adaptation of Avian Influenza Viruses to Humans: The Crystal Ball
Terrance M. Tumpey, PhD

1:05 p.m.-1:15 p.m.
Questions and Discussion

12:45 p.m.-4:30 p.m. .......................................................... Room M103
ASVCP Veterinary Laboratory Professionals Session I
Session Chair: Nicole K. Rosen, MT(ASCP)

12:45 p.m.-1:00 p.m.
Welcome to Attendees and Announcements
Nicole K. Rosen, MT(ASCP)

1:00 p.m.-2:00 p.m.
Urine Analysis: Update on Specific Gravity Measurement, Urine Chemistry Analysis of Protein, Creatinine, Urea, and Electrolytes
Harold Tvedten, DVM, PhD, DECVCP*

2:00 p.m.-3:00 p.m.
Thromboelastography for Assessment of Coagulation
Christine S. Olver, DVM, PhD*

3:00 p.m.-3:30 p.m.......................................................... International Hall
Refreshment Break—Visit the Posters and Exhibits!

3:30 p.m.-4:30 p.m.
Preliminary Evaluation of a Quantitative Ethylene Glycol Test in Dogs and Cats
Nancy Collicutt, DVM, MS

1:30 p.m.-5:00 p.m. .................................................. Marquis Ballroom B
Concurrent Session II: Epithelial/Mucosal Cell Pathobiology
Session Chair: Lauri Diehl, DVM, PhD*
Session Co-Chair: Charles Parkos, MD, PhD+

1:30 p.m.-2:15 p.m.
Mucosal Immunology: Regulation of Mucosal Homeostasis by Antigen Presenting Cell
Timothy Denning, PhD+

2:15 p.m.-3:00 p.m.
Host-Microbiota Interactions in the Gut
Andrew Neish, MD+
3:00 p.m.-3:30 p.m. .................................................. International Hall
Refreshment Break—Visit the Posters and Exhibits!

3:30 p.m.-4:15 p.m.
Insights into Epithelial Barrier Regulation and Repair
During Mucosal Inflammation
Asma Nusrat, MD+

4:15 p.m.-5:00 p.m.
The Primate Enteric Virome in Health and Disease
Scott A. Handley, PhD

1:30 p.m.-4:30 p.m. .................................................. Marquis Ballroom C
Clinical Pathology Focused Scientific Session I
Session Chair: J. McCartney
Committee Members: E. Behling-Kelly, S. Connolly, N. Tripathi, and V. Wong

Platform Presentations

1:30 p.m.-1:45 p.m.
RETICULOCYTE HEMOGLOBIN CONTENT (CHR) DOES NOT DIFFERENTIATE TRUE FROM FUNCTIONAL IRON DEFICIENCY IN DOGS
L.B. Radakovich, K.S. Santangelo, and C.S. Olver
Keyword: Hematology

1:45 p.m.-2:00 p.m.
MAPPING A CHROMOSOMAL LOCATION FOR DOG ERYTHROCYTE ANTGEN 1.1
Keyword: Clinical Pathology

2:00 p.m.-2:15 p.m.
INCREASED ERYTHROCYTIC OSMOTIC FRAGILITY IN ANEMIC DOMESTIC SHORTHAIR AND PUREBRED CATS
C. Tritschler, K. Raj, K. Mizukami, and U. Giger
Keyword: Hematology

2:15 p.m.-2:30 p.m.
FLOW CYTOMETRIC ASSAYS FOR CANINE IMMUNE-MEDIATED ANEMIAS: DETECTION OF DEA 1.1 ON CANINE ERYTHROID PRECURSORS
C. Lucidi, J. Gerlach, S. Forney, A. Jutkowitz, and M. Scott
Keyword: Hematology

2:30 p.m.-2:45 p.m.
FELINE CYSTINURIA CAUSED BY A SLC3A1 MISSENSE MUTATION
K. Mizukami, K. Raj, and U. Giger
Keyword: Urinary System

2:45 p.m.-3:00 p.m.
EVALUATION OF CYTOLOGIC METHODS FOR PROGNOSTICATION OF CANINE MAST CELL TUMORS
Keyword: Cytology
3:00 p.m.-3:30 p.m. ..........................International Hall
REFRESHMENT BREAK—VISIT THE CLINICAL PATHOLOGY
FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-4:30 p.m.
Invited Speaker
THE ELUSIVE HYPERCOAGULABLE PATIENT
B. Brainard

1:30 p.m.-5:00 p.m...........................Imperial Ballroom B
Diagnostic Pathology Focused Scientific Session I
Session Chair: B. Lewis
Committee Members: E. Burrough, L. Kennedy, S. Raverty, A.
Rodrigues, and D. Rotstein (Co-Chair)

Platform Presentations

1:30 p.m.-1:40 p.m.
Introductions and Announcements

1:40 p.m.-1:50 p.m.
ACUTE GLOMERULONEPHRITIS ASSOCIATED WITH
ADMINISTRATION OF BOVINE HYPER-IMMUNE SERUM IN A
3-MONTH-OLD HOLSTEIN DAIRY CALF
G.R. Hitchener#, K.R. Mullen, T.J. Divers, and G.E. Duhamel
Keyword: Urinary System

1:50 p.m.-2:00 p.m.
Break

2:00 p.m.-2:10 p.m.
LASER CAPTURE MICRODISSECTION OF FELINE
STREPTOMYCINES SPP. PYOGRANULOMATOUS DERMATITIS
AND CELLULITIS
Stepnik, C. Outerbridge, V.K. Affolter, B.A. Byrne, L.J. Lowenstine,
S.D. White, and B. Murphy
Keyword: Infectious Disease

2:10 p.m.-2:20 p.m.
LINEAGE INFIDELITY IN FELINE ENTEROPATHY-ASSOCIATED
T-CELL LYMPHOMA
C. Andrews#, M. Operacz, R. Maes, and M. Kiupel
Keyword: Neoplasia

2:20 p.m.-2:30 p.m.
PEMPHIGUS FOLIACEUS IN TWO RELATED QUARTER HORSE
FOALS
Keyword: Skin
2:30 p.m.-2:40 p.m.
TWO CANINE OSTEOSARCOMA GRADING SYSTEMS IN DOGS ARE NOT PREDICTIVE OF OUTCOME OF APPENDICULAR TUMOURS RECEIVING AMPUTATION AND ADJUVANT CHEMOTHERAPY
C.R. Schott#, R.A. Foster, and G.A. Wood
Keyword: Neoplasia

2:40 p.m.-2:50 p.m.
ALIMENTARY TOXIC ALEUKIA-LIKE SYNDROME IN 3 HORSES WITH T-2 MYCOTOXICOSIS
N.C. Zitzer#, M.J. Radin, M.L. Wellman, R. Liepman, T. Burns, L.G. Lanigan, and D.S. Russell
Keyword: Hematopoetic System

2:50 p.m.-3:00 p.m.
FELINE PULMONARY ADENOSQUAMOUS CARCINOMA: COMPARISON OF CYTOLOGIC AND HISTOLOGIC FINDINGS
K.O. Loria#, S.F. Santagostino, M. Sánchez, and M.P. Sirivelu
Keyword: Neoplasia

3:00 p.m.-3:30 p.m. ...........................................
International Hall
REFRESHMENT BREAK — VISIT THE DIAGNOSTIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-3:40 p.m.
DISSEMINATED HISTIOCYTIC SARCOMA IN A CAVALIER KING CHARLES SPANIEL WITH UNCOMMON CYTOLOGIC PRESENTATION
L.L. Clarke#, L.S. Kelly, B.C. Garner, and C.A. Brown
Keyword: Neoplasia

3:40 p.m. -3:50 p.m.
SARCOCYSTIS FAYERI-INDUCED GRANULOMATOUS MYOSITIS IN TWO HORSES
Keyword: Muscle

3:50 p.m.-4:00 p.m.
DORSAL CRESTY NECK DEFORMATION IN SPANISH PUREBRED HORSES A PRELIMINARY STUDY
A. Morales Briceño, A. Lamprea Garrido, A. Méndez Sánchez, and J. Pérez Arévalo
Keyword: Endocrine

4:00 p.m.-4:10 p.m.
UNIQUE CIRCOVIRUS-LIKE PATHOLOGY ASSOCIATED WITH FEATHER DYSTROPHY AND MORTALITY IN BUDGERIGARS (Melopsittacus undulatus)
Keyword: Avian
ASSOCIATION OF CLOSTRIDIUM PERFRINGENS WITH FOCAL DUODENAL NECROSIS IN EGG LAYING CHICKENS
M. França, M.A. Barrios, L. Stabler, H.L. Shivaprasad, and A.H. Icard
Keyword: Avian

LOW ATM PROTEIN EXPRESSION IN CANINE MAMMARY GLAND TUMORS
Keyword: Neoplasia

MULTICENTRIC MESENTERIC ANGOLEIOMYOMA IN A YOUNG GERMAN SHEPHERD DOG
G.R. Hitchener and B.G. Caserto
Keyword: Neoplasia

SYSTEMIC ROUND CELL NEOPLASM IN A FREE-RANGING WILD TURKEY (Meleagris gallopavo) WITH CELLULAR MORPHOLOGY SUGGESTIVE OF MYELOID PRECURSORS, ASSOCIATED WITH LYMPHOPROLIFERATIVE DISEASE VIRUS INFECTION
H. Fenton, K. Straka, E. Howerth, and D. Mead
Keyword: Wildlife

RECENT CASES OF IDIOPATHIC CUTANEOUS AND RENAL GLOMERULAR VASCULOPATHY IN DOGS IN THE UNITED KINGDOM
I.K. Hawkins, D. Walker, L. Holm, and R. Cianciolo
Keyword: Cardiovascular

Platform Presentations

1:30 p.m.-2:15 p.m.
Invited Speaker
THE PATHOBIOLOGY OF INTRAVASCULAR STENTS IN HUMANS AND ANIMAL MODELS
P.G. Anderson+

2:15 p.m.-2:30 p.m.
INHIBITION OF TLR4 WITHIN THE PARAVENTRICULAR NUCLEUS ATTENUATES HYPERTENSION AND INFLAMMATORY SIGNALING CASCADE IN SPONTANEOUSLY HYPERTENSIVE RATS
R.B. Dange, D. Agarwal, and J. Francis
Keyword: Cardiovascular
2:30 p.m.-2:45 p.m.
STUDY OF THE DEVELOPMENT OF THE MOUSE AORTA
THREE-DIMENSIONAL MACROMOLECULAR STRUCTURE
USING TWO-PHOTON MICROSCOPY
L.M. Zadrozny, E.B. Neufeld, B.M. Lucotte, P.S. Connelly, Z. Yu,
L Dao, L. Hsu, and R.S. Balaban
Keyword: Cardiovascular

2:45 p.m.-3:00 p.m.
SCARRING FIBROSIS OF RIGHT VENTRICULAR
EPICARDIUM IN MICE WITH STERNAL SEGMENT
DISLOCATION
H.A. Adissu, G.A. Medhanie, L. Morikawa, J.K. White, S.
Newbigging, and C. McKerlie
Keyword: Bone, Joint, Cardiovascular

3:00 p.m.-3:30 p.m. ...........................................
International Hall
REFRESHMENT BREAK — VISIT THE EXPERIMENTAL
DISEASE FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-4:15 p.m.
Invited Speaker
ALPHA (1.3) FUCOSE-DEPENDENT LEUKOCYTE
TRAFFICKING MODULATES INFLAMMATION, IMMUNITY,
AND Atherosclerosis
J.W. Homeister*

4:15 p.m.-4:30 p.m.
A COMMON MARMOSET MODEL OF MIDDLE EAST
RESPIRATORY SYNDROME CORONAVIRUS DISEASE
L. Baseler, D. Falzarano, E. deWit, D.P. Scott, F. Feldmann, V.J.
Munster, and H. Feldmann
Keyword: Infectious Disease

4:30 p.m.-4:45 p.m.
HIGH THROUGHPUT SEMI-AUTOMATED QUANTITATIVE
END-POINT ANALYSIS FOR EFFICACY STUDIES IN A
MOUSE MODEL OF ALZHEIMER’S DISEASE
O. Foreman, H. Ngu, C. LePichon, H. Lin, J. Eastham-
Anderson, K. Scearce-Levie, and G. Ayalon
Keyword: Nervous System

4:45 p.m.-5:00 p.m.
SYNERGISTIC EFFECTS OF CLOSTRIDIUM PERFRINGENS
ENTEROTOxin AND BETA TOXin IN RABBIT SMALL
INTESTINAL LOOPS
F.A. Uzal, M. Ma, A. Gurgar, J. Garcia, J. Saputo, J. Theoret,
D.J. Fisher, and B.A. McClane
Keyword: Infectious Disease

5:00 p.m.-5:15 p.m.
UV-INDUCED GENOMIC/TRANSCRIPTOMIC CHANGES
IN MELANOCYTIC LESIONS IN A MOUSE MODEL OF
MELANOMA
H. Michael and G. Merlino
Keyword: Neoplasia
Natural Disease Focused Scientific Session II

Session Chair: I. Langohr
Committee Members: G. Haldorson, A. Miller (Co-Chair), D.R. Rissi, J.P. Teifke (Past Chair), F. Uzal, N. Wakamatsu

Platform Presentations

1:30 p.m.-1:45 p.m.
THE INFLAMMATORY RESPONSE TO WHITE-NOSE SYNDROME IN LITTLE BROWN BATS (MYOTIS LUCIFUGUS)
Keyword: Wildlife

1:45 p.m.-2:00 p.m.
PROTEOMIC ANALYSIS OF HIGHLY PREVALENT AMYLOID A (AA) AMYLOIDOSIS IN ENDANGERED ISLAND FOXES (UROCYON LITTORALIS)
Keyword: Wildlife

2:00 p.m.-2:15 p.m.
SELECT DISEASES OF CAPTIVE SYNGNATHID
S.B. Fogelson and A.C. Camus
Keyword: None of the Above

2:15 p.m.-3:00 p.m.
Invited Speaker
PATHOGENESIS OF TRANSBOUNDARY ANIMAL DISEASES
C. Brown

3:00 p.m.-3:30 p.m.
THE PATHOLOGY OF HOOKWORM INFECTION IN SOUTH AMERICAN FUR SEAL (Arctocephalus australis) PUPS, GUAFO ISLAND, CHILEAN PATAGONIA
M. Seguel, F. Muñoz, H. Pavés, E. Paredes, R. Schlatter, E. Howerth, and N. Gottdenker
Keyword: Wildlife
4:00 p.m.-4:15 p.m.  
2013 MID-ATLANTIC DOLPHIN MORBILLIVIRUS (DMV) 
MARINE MAMMAL UNUSUAL MORTALITY EVENT- 
PATHOLOGIC PERSPECTIVES 
D.S. Rotstein, K. Colegrove, L. Coffee, P. Habecker, E.W. 
Howerth, N. Gottdenker, J. St. Leger, G. Bossart, T. Goldstein, 
R.A. DiGiovanni, Jr., W.A. McLellan, K.M. Phillips, T.B. 
Waltzek, J.F.X. Wellehan, J.T. Saliki, O. Nielsen, M. Garron, B. 
Mase-Guthrie, A. Hohn, E. Fougeres, M. Moore, D. Fauquier, 
and T.K. Rowles 
Northeast and Southeast Atlantic Marine Mammal Stranding 
Network 
Keyword: Infectious Disease 

4:15 p.m.-5:00 p.m.  
Invited Speaker 
PATHOLOGY AND PATHOGENESIS OF VIRAL 
HEMORRHAGIC FEVERS 
S. Zaki+

4:30 p.m.-6:00 p.m. .................................Marquis Ballroom C 
ASVCP Business Meeting

6:00 p.m.-7:30 p.m. .................................Marquis Ballroom B 
ACVP Business Meeting/Town Hall Meeting

7:30 p.m.-9:30 p.m. .................................Marquis Ballroom A 
Mystery Slide Session: Comparative Oncology 
Session Chair: Debra Kamstock, DVM, PhD* 
Session Co-Chair: Stephen M. Hewitt, MD, PhD+
ACVP & ASVCP 2014 • Monday, November 10

7:00 a.m.-6:00 p.m. .................................................................Room M102
Speaker Ready Room

7:00 a.m.-5:00 p.m. .........................................................Imperial Ballroom Foyer
Internet Station
Sponsored by VIN

7:30 a.m.-1:00 p.m. ......................Imperial Ballroom Registration Desk
Registration

8:00 a.m.-5:00 p.m. .................................................................Room M107
Student and Guest Hospitality Room

8:00 a.m.-12:00 noon .......................................................Marquis Ballroom C
ACVP/ASVCP/ASIP Joint Plenary Session: Systems Biology
Session Chair: Mark Sobel, MD, PhD+
Session Co-Chair: Tim LaBranche, DVM, PhD*

8:00 a.m.
Welcome!
Anne Provencher Bolliger, DVM, MSc, DACVP, DECVCP,
ASVCP President
Cory Brayton, DVM, DACLAM*, ACVP President

8:05 a.m.-8:15 a.m.
Introduction
Mark Sobel, MD, PhD+

8:15 a.m.-9:05 a.m.
Overview of Systems Biology
Eric Schadt, PhD

9:05 a.m.-10:00 a.m.
Finding Genes and Pathways for Canine Cancers
Ingegerd Elvers, PhD

10:00 a.m.-10:30 a.m..................................International Hall
Refreshment Break — Visit the Posters and Exhibits!

10:30 a.m.-11:15 a.m.
Systems Biology of Cancer: From Cause to Therapy
Donald Ingber, MD, PhD+

11:15 a.m.-12:00 noon
Systems Biology of Regenerating Liver
Ursula Klingmüller, PhD

Supported by Charles River Laboratories

8:00 a.m.-12:00 noon .......................................................Room M103
ASVCP Veterinary Laboratory Professionals Session II
Session Chair: Nicole K. Rosen, MT(ASCP)

8:00 a.m.-9:00 a.m.
Challenges in Laboratory Testing of Small-Volume Samples
Jennifer L. Johns, DVM, PhD*
9:00 a.m.-10:00 a.m.  
**Elasmobranch Field Studies: Sample Collection, Processing, and Analysis**  
Tonya Clauss, DVM, MS

10:00 a.m.-11:00 a.m.  
**International Hall Refreshment Break**

11:00 a.m.-12:00 noon  
**The Veterinary In-Clinic Laboratory: Quality Challenges and Possible Solutions**  
Bente Flatland, DVM, MS, DACVIM*

9:00 a.m.-5:00 p.m.  
**Career Center**

9:30 a.m.-1:00 p.m.  
**International Hall Exhibits and Poster Session**

12:15 p.m.-1:15 p.m.  
**Marquis Ballroom A**  
**ACVP Clinical Pathology Examination Slide Review**

12:15 p.m.-1:15 p.m.  
**Imperial Ballroom B**  
**ACVP Gross and Microscopic Examination Slide Review**

12:15 p.m.-3:00 p.m.  
**Room M103**  
**Latin Comparative Pathology Group Presents**

1:30 p.m.-4:30 p.m.  
**International C**  
**Community Service Project**

1:30 p.m.-3:30 p.m.  
**Marquis Ballroom A**  
**ASVCP Case Discussion Session**  
**Session Chair: Tracy Stokol, BVSc, PhD***

1:45 p.m.-3:00 p.m.  
**Marquis Ballroom D**  
**Meet the Pathologists: A Discussion of Careers in Pathology**  
**Supported by the National Cancer Institute Comparative Pathology Training Partnerships**

3:00 p.m.-5:00 p.m.  
**Imperial Ballroom B**  
**Veterinary Student and Resident Forum**

5:15 p.m.-6:45 p.m.  
**Imperial Ballroom A**  
**ASVCP Reception**

7:00 p.m.-9:00 p.m.  
**Marquis Ballroom A**  
**Mystery Slide Review and Case Presentations: Neuropathology**  
**Session Chair: Jey Koehler, DVM, PhD***
Concurrent Session III: Pathogenesis of Septic Shock, SIRS, and MODS
Session Chair: Michelle Henry Barton, DVM, PhD, DACVIM
Session Co-Chair: Jonathan Sevransky, MD, MHS

8:00 a.m.-8:50 a.m. Immunopathology of Sepsis
Daniel Remick, MD, DABP+

8:50 a.m.-9:40 a.m. SIRS, Sepsis, and MODS: Pathophysiology and Diagnosis
Jonathan Sevransky, MD, MHS

9:40 a.m.-10:10 a.m. International Hall Refreshment Break

10:10 a.m.-11:00 a.m. Current Treatment of Sepsis
Jonathan Sevransky, MD, MHS

11:00 a.m.-11:50 a.m. One Health Aspects of Endotoxemia
Michelle Henry Barton, DVM, PhD, DACVIM

11:50 a.m.-12:00 noon Questions and Discussion

Concurrent Session IV: Equine Pathology
Session Chair: Grant B. Rezabek, DVM, MPH
Session Co-Chair: Carney B. Jackson, DVM*

8:00 a.m.-8:50 a.m. Equine Enteric and Hepatic Pathology
Carney B. Jackson, DVM*

8:50 a.m.-9:40 a.m. Finding Footholds in Laminitis Research: 2014
Julie B. Engiles, DVM*

9:40 a.m.-10:10 a.m. International Hall Refreshment Break
Diagnostic Challenge of Axonal Degeneration in Horses with Locomotion Deficit
Anibal Guillermo Armien Medianero, DVM, MS, DrVetMed*

Important Diseases of the Equine Neonate and Perinatal Period
Grant B. Rezabek, DVM, MPH

Questions and Discussion

Platform Presentations

ULTRASTRUCTURAL ABNORMALITIES OF GREYHOUND GREY EOSINOPHILS
N. Berghoff^, S.M. Kemner, K.M. Young, and M.A. Scott
Keyword: Hematology

VASOACTIVE EICOSANOIDS IN GREYHOUND COMPARED TO NON-GREYHOUND DOGS
Keyword: Clinical Chemistry

CONGENITAL MACROTHROMBOCYTOPENIA IN AKITA DOGS
S. Hayakawa^, E.A. Spangler, P.W. Christopherson, and M.K. Boudreaux
Keyword: Hematology

URINARY METABOLIC PATTERNS OF FANCONI SYNDROME IN DIFFERENT DOG BREEDS
U. Giger, J.M. Slutsky, J.B. Oliver, C.A. Fitzgerald, and A.C. Sewell
Keyword: Urinary System

EXPANDING GEOGRAPHIC AREAS OF ENDEMIC FUNGI: ANIMALS AS SENTINEL FOR INFECTION
T. Chiller

REFRESHMENT BREAK—VISIT THE CLINICAL PATHOLOGY FOCUSED SCIENTIFIC POSTERS!
10:30 a.m.-10:45 a.m.
CYTOLOGIC FEATURES OF CUTANEOUS FOLLICULAR TUMORS AND CYSTS IN DOGS
A.O. Adedeji^, V.K. Affolter, and M.M. Christopher
Keyword: Cytology

10:45 a.m.-11:00 a.m.
CYTOLOGICAL FINDINGS OF CANINE AND FELINE BILE AND ASSOCIATED CLINICAL PATHOLOGICAL DATA: REVIEW OF 140 CASES
L.M. Peters^, B. Glanemann, O.A. Garden, and B. Szladovits
Keyword: Cytology

11:00 a.m.-11:15 a.m.
KIDNEY INJURY MOLECULE-1 EXPRESSION IN NORMAL AND DISEASED FELINE KIDNEY TISSUE
Keyword: Urinary System

11:15 a.m.-11:30 a.m.
ENZYME-LINKED IMMUNOSORBENT ASSAY TO MEASURE SERUM FERRITIN IN TOUCANS
Keyword: Clinical Pathology

11:30 a.m.-11:45 a.m.
EVALUATION OF CYTOPIN PRECISION IN CANINE CEREBROSPINAL FLUID ANALYSIS
P. Krimer, A. Haley, S. Harvey, and S. Schatzberg
Keyword: Clinical Pathology

11:45 a.m.-12:00 p.m.
PLASMA MICRO-RNA IN DOGS WITH MULTICENTRIC LYMPHOMA
Keyword: Neoplasia

^Competitor for the ASVCP Young Investigator Award

8:00 a.m.-11:30 a.m. Marquis Ballroom D
Education Focused Scientific Session
Session Chair: T. Cecere
Committee Members: L. Craig (Co-Chair), R. Peters, M. Sanchez, A. Van Wettere, and A. Warren (Past Chair)

Platform Presentations

8:00 a.m.-10:00 a.m.
Invited Speaker
EVIDENCE-BASED EXPERTISE DEVELOPMENT: A ROUNDTABLE DISCUSSION OF RESEARCH-INFORMED BEST EDUCATIONAL PRACTICES FOR VETERINARY PATHOLOGY
H. Bender
10:00 a.m.-10:30 a.m. ............................................... International Hall
REFRESHMENT BREAK — VISIT THE EDUCATION FOCUSED SCIENTIFIC POSTERS!

10:30 a.m.-10:45 a.m.
USE OF VIRTUAL MICROSCOPY TO INTEGRATE HISTOLOGY AND PATHOLOGY LEARNING
C. Fuentealba
Keyword: General Topic

10:45 a.m.-11:00 a.m.
THE LONG-TERM EFFECTS OF USING THE DIAGNOSTIC PATHFINDER AND TEAM BASED LEARNING TO TEACH CLINICAL PATHOLOGY
R. DiTerlizzi, J. Danielson, and H. Bender
Keyword: General Topic

11:00 a.m. – 11:15 a.m.
STUDENT PERSPECTIVES ON RESEARCH IN A DVM CURRICULUM: SUPPORT FOR INCREASING FORMAL RESEARCH-RELATED EXPERIENCES
M.C. Friedemann and N.A. Robinson
Keyword: General Topic

11:15 a.m.-11:30 a.m.
DIGITAL ATLAS OF COMPARATIVE PATHOLOGY IN DOMESTIC ANIMALS AS A TOOL FOR TEACHING INNOVATION IN VETERINARY MEDICINE IN VENEZUELA
A. Morales Briceño, A. Méndez Sanchez, and M. Morales Briceño
Keyword: General Topic

8:30 a.m.-12:00 noon .................................................. Room M103
ASVCP Veterinary Laboratory Professionals Session III
Session Chair: Nicole K. Rosen, MT(ASCP)

8:30 a.m.-10:00 a.m.
Biologic Variation and Its Use in Interpretation of Laboratory Results in Dogs and Cats
Kathy Freeman, DVM, MS, PhD, DECVP

10:00 a.m.-10:30 a.m. ............................................... International Hall
Refreshment Break

10:30 a.m.-12:00 noon
Principles of Nonstatistical Quality Control and Planning for the Veterinary Laboratory With Practical Audit Exercise
Kathy Freeman, DVM, MS, PhD, DECVP

9:00 a.m.-5:00 p.m. ................................................... Room M201
Career Center

9:30 a.m.-3:30 p.m. ................................................... International Hall Exhibits and Poster Session

12:00 noon-1:30 p.m.
Lunch Break (on your own)
Emerging Disease Focus Seminar II: Ebola Virus
Session Chairs: Jim Rottman, DVM, PhD* and David K. Meyerholz, DVM, PhD, DACVM**

ASVCP Mystery Slide Case Session
Session Chair: Tracy Stokol, BVSc, PhD*

Diagnostic Pathology Focused Scientific Session II
Session Chair: B. Lewis
Committee Members: E. Burrough, L. Kennedy, S. Raverty, A. Rodrigues, and D. Rotstein (Co-Chair)

Platform Presentations

1:30 p.m.-1:40 p.m.
RETROSPECTIVE EVALUATION OF EQUINE MENINGOENCEPHALOMYELITIS IN THE NORTHEASTERN UNITED STATES FROM 1996-2013
R.E. Ruby and A.D. Miller
Keyword: Nervous System

1:40 p.m.-1:50 p.m.
HISTOPATHOLOGICAL ANALYSIS OF FELINE INJECTION SITE-ASSOCIATED SARCOMA PROJECTIONS IDENTIFIED DURING PRE-SURGICAL IMAGING BY MAGNETIC RESONANCE AND COMPUTED TOMOGRAPHY
C.V. Löhr, M. Milovancev, J.L. Terry, S.M. Steiger-Vanegas, and S.M. Nemanic
Keyword: Neoplasia

2:00 p.m.-2:10 p.m.
A CANINE MODEL OF CHOLESTERYL ESTER STORAGE DISEASE
H.S. Bender, R.J. Desnick, and T.E. Boyle
Keyword: Liver and Pancreas

2:10 p.m.-2:20 p.m.
CONCORDANCE OF PHOSPHOHISTONE H3 EXPRESSION AS AN ALTERNATIVE TO MITOTIC INDEX IN CANINE ORAL MELANOMA ASSESSED BY MULTIPLE PATHOLOGISTS USING MICROSCOPY AND WHOLE-SLIDE DIGITALLY SCANNED IMAGES
C.H. Halsey, A. Michalowski, R.P. Traslavina, J.E. Dwyer, B-R. Wei, S.B. Hoover, and R.M. Simpson
Keyword: Neoplasia
2:20 p.m.-2:30 p.m.
INVESTIGATION OF SUSPECTED IMPORTED JERKY TREAT MORTALITIES
Keyword: Urinary System

2:30 p.m.-2:40 p.m.
IMMUNOLABELING WITH ANTIGEN MARKERS PERIAxin AND SOX10 MAY BE PROMISING TO DISCRIMINATE BETWEEN CANINE PERIPHERAL NERVE SHEATH AND PERIVASCULAR WALL TUMORS
S. Sisó, V.K. Affolter, P. Marco-Salazar, A.W. Bollen, and R.J. Higgins
Keyword: Neoplasia

2:40 p.m.-2:50 p.m.
FIBROOSSEOUS LESIONS OF THE ORAL CAVITY IN DOGS
M.D. Sánchez, M.M. Soltero-Rivera, J.B. Engiles, A.M. Reiter, J. Reetz, and J.R. Lewis
Keyword: Alimentary

2:50 p.m.-3:00 p.m.
SUSPECTED FENBENDAZOLE TOXICITY RESULTING IN SEVERE BONE MARROW HYPOPLASIA IN A HOLSTEIN CALF
Keyword: Hematopoietic System

3:00 p.m.-3:30 p.m..........................International Hall
REFRESHMENT BREAK—VISIT THE DIAGNOSTIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-3:40 p.m.
VALIDATION OF DIGITAL GROSS NECROPSIES IN FEEDLOT CATTLE AND CALF RANCHES
Keyword: General Topic

3:40 p.m.-3:50 p.m.
VASCULAR HAMARTOMA IN THE BRAIN OF A COW
Keyword: Nervous System

3:50 p.m.-4:00 p.m.
MASSIVE HEMORRHAGES ASSOCIATED WITH RODENTICIDE ANTICOAGULANTS IN RACE HORSES
Keyword: General Topic

4:00 p.m.-4:10 p.m.
POTENTIAL OCHRONOSIS IN A CAT
L. Bryan, Y. Rezenom, R. Payne and J. Mansell
Keyword: Skin
4:10 p.m.-4:20 p.m.
CONCURRENT EOSINOPHILIC LEUKEMIA AND GRANULOSA CELL TUMOR IN AN AFRICAN HEDGEHOG (ATELERIX ALBIVENTRIS)
Keyword: Neoplasia

4:20 p.m.-4:30 p.m.
EPITHELIOID MALIGNANT PERIPHERAL NERVE SHEATH TUMOR IN THE EYELID OF A CAT WITH LYMPH NODE METASTASIS
M.J. Cruz Penn, S.H. Jennings, and S. Pizzirani
Keyword: Neoplasia

4:30 p.m.-4:40 p.m.
CHOROID PLEXUS PAPILLOMAS IN THREE HORSES
Keyword: Nervous System

4:40 p.m.-4:50 p.m.
EQUINE HERPESVIRUS-9 (EHV-9) MENINGOENCEPHALITIS IN A THOMSON’S GAZELLE
K. Sakaguchi, K. Kim, G. Pirie, M. Rinaldi, R. Maes, A. Wise, I. Langohr, and F. Del Piero
Keyword: Nervous System

2013 ACVP/AAVLD Award Recipient
4:50 p.m.-5:00 p.m.
CHARACTERIZATION OF HISTIOCYTE IBA1 EXPRESSION IN NORMAL CANINE SKIN, INFLAMMATORY LESIONS, AND CUTANEOUS ROUND CELL NEOPLASMS
K. Kim, C. Zewe, K. Sakaguchi, D. Paulsen, F. Del Piero, and N. Wakamatsu
Keyword: Skin
2:45 p.m.-3:00 p.m.
GENETIC AND PHARMACOLOGIC INHIBITION OF MTOR DELAYS THYMIC LYMPHOMA FORMATION AND DECREASED CDK6 LEVELS
J. Gary, J. Xu, J. Simmons, S. Zhang, B. Gamache, K. Zhang, A. Michalowski, W. Dubois, J.R. Testa, and B. Mock
Keyword: Neoplasia

3:00 p.m.-3:30 p.m. International Hall
REFRESHMENT BREAK — VISIT THE EXPERIMENTAL DISEASE FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-4:30 p.m.
Invited Speaker
UNRAVELING CANCER PATHOGENESIS: FROM GENETICALLY MODIFIED MICE TO STEM CELL PATHOLOGY
A. Nikitin+

4:30 p.m.-4:45 p.m.
CHARACTERIZATION OF NON-HEMATOPOIETIC ROLES OF BAP1 AND BAP1’S ROLE IN TUMOR PROGRESSION
J.D. Webster, A. Dey, and V.M. Dixit
Keyword: Neoplasia

4:45 p.m.-5:00 p.m.
DEVELOPMENT AND TRANSLATIONAL IMAGING OF TUMORIGENESIS IN A NOVEL TP53 PORCINE CANCER MODEL
Keyword: Neoplasia

1:30 p.m.-5:00 p.m. Marquis Ballroom B
Industrial and Toxicologic Pathology Focused Scientific Session II
Session Chair: M. Conner+
Committee Members: C. Colleton, T. Crabbs, D. Ennulat (Co-Chair), K. Knostman, J. Kyathanahalli, G. Palaisamy, V. Sasseville, and M. Sebastian (Past Chair)

Platform Presentations

1:30 p.m.-1:35 p.m.
OPENING REMARKS

1:35 p.m.-2:20 p.m.
Invited Speaker
ANTIBODY-DRUG CONJUGATES: KEY CHALLENGES IN SAFETY ASSESSMENT
M. Schutten+
Supported by Covance Laboratories, Inc.

2:20 p.m.-2:40 p.m.
PARTICULATES FROM HYDROPHILIC COATED GUIDING SHEATHS EMBOLIZE TO THE BRAIN
Keyword: Nervous System
2:40 p.m.-3:00 p.m.
ALGORITHM-BASED WHOLE TISSUE SURFACE MORPHOMETRY MEASUREMENTS FOR CELIAC DRUG DEVELOPMENT
E. Hagendorn, F. Aeffner, C. Whitney-Miller, and S. Potts
Keyword: Pharmaceutical

3:00 p.m.-3:30 p.m.----------------------------------------------- International Hall
REFRESHMENT BREAK — VISIT THE INDUSTRIAL AND TOXICOLOGIC PATHOLOGY POSTERS!

3:30 p.m.-4:20 p.m.
Invited Speaker
THE ANIMAL RULE: STUDY DESIGN AND EXECUTION IN HIGH CONTAINMENT (BIOSAFETY LEVELS 3 AND 4)
N. Twenhafel

4:20 p.m.-4:40 p.m.
GOSSYPOL PROMOTES DEGENERATION OF OVARIAN FOLLICLES IN RATS
B. Soto-Blanco, I.C.N. Gadelha, M.F. Macedo, S.C.S. Oloris, and M.M. Melo
Keyword: Reproductive

4:40 p.m.-5:00 p.m.
KIDNEY TOXICITY OF FUROSEMIDE IN RATS
E.A.G. Blomme, A. Ditewig, M. Klapczynski, D. Cugier, P. Lesuisse, and M. Liguori
Keyword: Urinary System

5:15 p.m.-6:45 p.m.----------------------------------- Marquis Ballroom A
ACVP Awards and Recognition Event

7:00 p.m.-9:30 p.m.------------------------------------------ Imperial Ballroom
ACVP Presidential Reception
Sponsored by Pfizer, Inc.
**ACVP & ASVCP 2014 • Wednesday, November 12**

7:00 a.m.-11:30 a.m. .....................................................Room M102
Speaker Ready Room

8:00 a.m.-11:00 a.m. .....................................................Room M107
Student and Guest Hospitality Room

8:00 a.m.-1:00 p.m. ....................Imperial Ballroom Registration Desk Registration

8:00 a.m.-12:00 noon ..............................Marquis Ballroom Foyer Young Investigator Award Poster Session

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<td>7:00 a.m.</td>
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**Concurrent Session V: Pathogenesis of Osteoarthritis**

Session Chair: Cathy S. Carlson, DVM, PhD*
Session Co-Chair: Elizabeth Uhl, DVM, PhD*

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<th>Time</th>
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| 8:00 a.m.-8:10 a.m. | Introduction
Cathy S. Carlson, DVM, PhD*        |
| 8:10 a.m.-9:00 a.m. | Biology of Osteoarthritis
Richard F. Loeser, Jr., MD        |
| 9:00 a.m.-9:50 a.m. | Assessment of Osteoarthritis Severity in Animal Models
Cathy S. Carlson, DVM, PhD*       |
| 9:50 a.m.-10:10 a.m. | Refreshment Break
Marquis Ballroom Foyer          |
| 10:10 a.m.-11:00 a.m. | Imaging Equine Osteoarthritis Reveals New Insights
Sheila Laverty, MVB, MRCVS, DACVS, DECVS       |
| 11:00 a.m.-11:50 a.m. | Canine Osteoarthritis and Cartilage Repair
James L. Cook, DVM, PhD, DACVS, DACVS, DACVSMR |
| 11:50 a.m.-12:00 noon | Questions and Discussion                                           |

**Mini-Symposium: Iron Biology and Anemia**

Session Chair: Tara Arvedson, PhD
Session Co-Chair: Elizabeta Nemeth, PhD

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| 8:00 a.m.-8:50 a.m. | Iron Metabolism Overview: Proteins, Pathways, and General Pathology
Paul J. Schmidt, PhD |
| 8:50 a.m.-9:40 a.m. | Iron Restriction, Associated Pathology, and Points of Therapeutic Intervention
Tomas Ganz, MD, PhD |

*ACVP Diplomate  +ASIP Member
ACVP & ASVCP 2014 • Wednesday, November 12

9:40 a.m.-10:10 a.m..........................Marquis Ballroom Foyer
Refreshment Break

10:10 a.m.-11:00 a.m.
Iron Maldistribution and Infection
Hal Drakesmith, PhD

11:00 a.m.-11:50 a.m.
Iron Overload, Toxicity, and Treatments
Elizabeta Nemeth, PhD

11:50 a.m.-12:00 noon
Questions and Discussion

1:00 p.m.-7:00 p.m..............................Marquis Ballroom C
Primate Pathology Post-Meeting Workshop I: Immuno-Oncology: Lessons from Comparative Studies in Human and Nonhuman Primates
(available for an additional fee)

1:00 p.m.-2:00 p.m.
Chemoinmunotherapy: Reengineering Tumor Immunity
Leisha Emens, MD, PhD

2:00 p.m.-2:45 p.m.
Tumor Models in NHP: A Limited Choice
Francois Villinger, DVM, PhD

2:45 p.m.-3:30 p.m.
Development of Nonhuman Primate Cancer Models: Success, Failure, and Opportunity
J. Mark Cline DVM, PhD*

3:30 p.m.-4:00 p.m.
Refreshment Break

4:00 p.m.-7:00 p.m.
Case Presentations

1:00 p.m.- 5:00 p.m...............................Marquis Ballroom D
Post-Meeting Workshop II: Renal Pathology
Session Chair: Rachel E. Cianciolo, VMD, PhD*
(available for an additional fee)

1:00 p.m.-1:30 p.m.
Introduction: Specialty Services for the Evaluation of Renal Biopsies
Rachel E. Cianciolo, VMD, PhD*

1:30 p.m.-2:00 p.m.
Clinical Evaluation and Treatment of Veterinary Patients With Kidney Disease
David Polzin, DVM, PhD, DACVIM
2:00 p.m.-3:00 p.m.  
**Best Practices for the Evaluation of Renal Tissue**  
Rachel E. Cianciolo, VMD, PhD*  
Cathy A. Brown, VMD, PhD*  
F. Charles Mohr, DVM, PhD*  
Jaco van der Lugt, BVSc, PhD, DECVP

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

3:30 p.m.-4:00 p.m.  
**Development and Management of Databases for Prospective Case Analysis: A Clinical Perspective**  
Larry Cowgill, DVM, PhD, DACVIM

4:00 p.m.-5:00 p.m.  
**Panel Discussion**

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**NOVEMBER 13, 2014**

8:00 a.m.  
**Primate Pathology Post-Meeting Workshop II: Immuno-Oncology: Lessons from Comparative Studies in Human and Nonhuman Primates**

Tour of the Yerkes National Primate Research Center
Focused Scientific Posters will be available for viewing in the International Hall at the Marriott Marquis Hotel at the following times:

Sunday, November 9 .......................... 9:30 a.m.–4:30 p.m.
Monday, November 10 ......................... 9:30 a.m.–1:00 p.m.
Tuesday, November 11 ....................... 9:30 a.m.–3:30 p.m.

Poster Setup:
Sunday, November 9 .......................... 7:00 a.m.-9:00 a.m.

Poster Teardown:
Tuesday, November 11 ....................... 3:30 p.m.-4:30 p.m.

Session chairs at the Focused Scientific Session platform presentations will be asking their attendees to visit the posters of their respective focused groups during the refreshment break. Please see below for the corresponding refreshment breaks and when you need to be present at your poster:

• Clinical Pathology Posters: Refreshment breaks on Sunday afternoon and Tuesday morning
• Diagnostic Pathology Posters: Refreshment breaks on Sunday afternoon and Tuesday afternoon
• Education Posters: Refreshment break on Tuesday morning
• Experimental Disease Posters: Refreshment breaks on Sunday afternoon and Tuesday afternoon
• Industrial and Toxicologic Pathology Posters: Refreshment breaks on Sunday morning and Tuesday afternoon
• Natural Disease Posters: Refreshment breaks on Sunday morning and Sunday afternoon

The ACVP abstracts are available on the website at www.acvp.org and on the mobile app.

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CLINICAL PATHOLOGY FOCUSED SCIENTIFIC POSTER PRESENTATIONS

C-1
BREED AND AGE RELATED DIFFERENCES IN CANINE MAMMARY TUMOR DEVELOPMENT
Keyword: Neoplasia

C-3
IMMUNOHISTOCHEMICAL ANALYSIS OF HYPOXIA INDUCIBLE FACTOR-1 EXPRESSION IN ASSOCIATION WITH CHARACTERISTICS OF MALIGNANT CANINE MAMMARY TUMORS
Keyword: Neoplasia
C-4
STABILITY OF CANINE CRYOPRECIPITATE IN TWO DIFFERENT FREEZING PROTOCOLS
Keyword: Hematology

C-5
A MODIFIED METHOD TO EVALUATE “DELTAWBC” USING SYSMEX-XT2000IV IN SUPERNATANTS OF CENTRIFUGED FELINE EFFUSIONS
A. Stranieri, S. Paltrinieri, and A. Giordano
Keyword: Clinical Pathology

C-6
ABDOMINAL EFFUSION IN DOGS AND CATS: A RETROSPECTIVE STUDY OVER A 10-YEAR PERIOD (JANUARY 2004-JANUARY 2014) EXAMINING FLUID CHARACTERISTICS
K. Nunez and C. Thompson
Keyword: Clinical Pathology

C-7
ACUTE PHASE PROTEINS AND IRON METABOLISM IN FELINE CHRONIC KIDNEY DISEASE
R. Javard, C. Grimes, L. Bau, G. Beauchamp, and M. Dunn
Keyword: Clinical Pathology

C-8
ANALYTICAL VALIDATION OF A PARAOXON-BASED METHOD TO MEASURE THE ACTIVITY OF PARAOXONASE-1 IN FELINE BLOOD
G. Rossi, A. Giordano, E. Costarelli, P. Moretti, and S. Paltrinieri
Keyword: Clinical Pathology

C-9
DILUTION OF BLOOD FOR HEMATOLOGY AND BIOCHEMISTRY ANALYSIS IN RATS
M. Zamfir, A. Prefontaine, C. Copeman, F. Poitout, and A. Provencher
Keyword: Clinical Pathology

C-10
EFFECT OF VITAMIN E ON OXIDATIVE AND CARDIAC METABOLISM OF HORSES SUBMITTED TO HIGH INTENSITY EXERCISE
L.A. Yonezawa, T.S. Barbosa, M.J. Watanabe, J.L. Knaut, C.L. Marinho, and A. Kohayagawa
Keyword: Clinical Pathology

C-11
HEMATOLOGIC AND HEMOSTATIC EVALUATION IN HEALTHY DOGS UNDER DIFFERENT SEDATION PROTOCOLS
Keyword: Clinical Pathology
C-12
HEMATOLOGICAL AND HEMOSTATIC ABNORMALITIES OF PARANEOPLASTIC ORIGIN IN CANINE MAMMARY CANCER
Keyword: Clinical Pathology

C-13
HEMATOLOGICAL AND LIVER EVALUATION OF SHEEP UNDER TREATMENT WITH NEEM CAKE (AZADIRACHTA INDICA)
Keyword: Clinical Pathology

C-14
OCURRENCE OF HEPATOZOOM SPP. INFECTION IN DOMESTIC CATS FROM BRASILIA, BRAZIL
Keyword: Clinical Pathology

C-16
QUANTIFICATION OF THE TRANSFERRIN RECEPTOR (CD71) EXPRESSION ON RETICULOCYTES BY FLOW CYTOMETRY IN A MODEL OF IRON DEFICIENCY IN THE RAT
M. Winter, F. Christen, J. Funk, A. Kömer, and B. Altmann
Keyword: Hematology

C-17
SOME HEMATOLOGICAL AND BIOCHEMICAL PARAMETERS OF AMAZON FRESHWATER TURTLE (PODOCNEMIS EXPANSA) IN BRASÍLIA ZOO, DISTRITO FEDERAL, BRAZIL
Keyword: Wildlife

C-19
STABILITY OF LIVER ENZYMES IN DOG, RABBIT, RAT, AND HUMAN SERUM STORED AT DIFFERENT TEMPERATURES FOR UP TO 6 MONTHS
M. Ameri, N. Everds, and L. Ross
Keyword: Clinical Chemistry

DIAGNOSTIC PATHOLOGY FOCUSED SCIENTIFIC POSTER PRESENTATIONS

D-1
ACUTE GLOMERULONEPHRITIS ASSOCIATED WITH ADMINISTRATION OF BOVINE HYPER-IMMUNE SERUM IN A 3-MONTH-OLD HOLSTEIN DAIRY CALF
Keyword: Urinary System

* ACVP Diplomate
D-2
AMELANOTIC MELANOMA WITH NEUROENDOCRINE DIFFERENTIATION IN THE ORAL CAVITY OF A DOG
C.A. Foutz^ and R.C. Kovi
Keyword: Neoplasia

D-3
ATYPICAL PRESENTATION OF LYMPHOMA IN AN AMERICAN QUARTER HORSE
D.N. LoBato^ and S.J. Newman
Keyword: Neoplasia

D-4
ATYPICAL RENALAMYLOIDOSIS WITH MULTINUCLEATED GIANT CELLS IN SQUIRREL MONKEYS (SAIMIRI SCIUREUS)
N. Pate^, H. Pisharath, and J. Mankowsk
Keyword: Immune System

D-6
INFLAMMATORY CARDIOMYOPATHY IN A RHESUS MACAQUE (MACACA MULATTA)
T. Huynh^, K. Petrosky, S. Cummings Macri, and E. Hutto
Keyword: Primates

D-7
INTRAMUSCULAR LEIOMYOSARCOMA IN A HORSE WITH DISSEMINATED METASTASIS
A. Kawabata^, F. Del Piero, B.G. Caserto, A. Chapman, and I. Langohr
Keyword: Neoplasia

D-8
LASER CAPTURE MICRODISSECTION OF FELINE STREPTOMYCES SPP PYOGRANULOMATOUS DERMATITIS AND CELLULITIS
Keyword: Infectious Disease

D-9
LINEAGE INFIDELITY IN FELINE ENTEROPATHY-ASSOCIATED T-CELL LYMPHOMA
B. Andrews^, M. Operacz, R. Maes, and M. Kiupel
Keyword: Neoplasia

D-10
PATHOLOGICAL FINDINGS OF MARINE INVERTEBRATES WITH COPPER TOXICOSIS
E.E.B. LaDouceur^, J. Wynne, M.M. Garner, S. Fish, A. Nyaoke, and M.K. Keel
Keyword: Wildlife

D-11
PEMPHIGUS FOLIACEUS IN TWO RELATED QUARTER HORSE FOALS
Keyword: Skin
D-12
POSTMORTEM LESIONS FOUND IN BOX TURTLES WITH CO-INFECTIONS OF RANAVIRUS, HERPESVIRUS, AND MYCOPLASMA DURING A MORTALITY EVENT IN ILLINOIS
C. Chu, E. Driskell^, E. Dzhaman, and M. Allender
Keyword: Wildlife

D-13
POTENTIAL OCHRONOSIS IN A CAT
L. Bryan^, Y. Rezenom, R. Payne, and J. Mansell
Keyword: Skin

D-14
SPONTANEOUS CERVICAL ADENOCARCINOMA WITH WIDE METASTATIC DISEASE IN AN AGED CAPTIVE MOUFLON SHEEP (OVIS ORIENTALIS)
G.R. Hitchener^, E.L. Buckles, and D.H. Schlafer
Keyword: Reproductive System

D-15
TWO CANINE OSTEOSARCOMA GRADING SYSTEMS IN DOGS ARE NOT PREDICTIVE OF OUTCOME OF APPENDICULAR TUMOURS RECEIVING AMPUTATION AND ADJUVANT CHEMOTHERAPY
C.R. Schott^, R.A. Foster, and G.A. Wood
Keyword: Neoplasia

D-16
ACUTE MYELOBLASTIC LEUKEMIA WITH EOSINOPHIL MATURATIONS IN AN ADULT VIRGINIA OPOSSUM (DIDELPHIS VIRGINIANA)
J. P. Pope^ and R.L. Donnell
Keyword: Wildlife

D-17
ALIMENTARY TOXIC ALEUKIA-LIKE SYNDROME IN 3 HORSES WITH T-2 MYCOTOXICOSES
N.C. Zitzer^, M.J. Radin, M.L. Wellman, R. Liepman, T. Burns, L.G. Lanigan, and D.S. Russell
Keyword: Hematopoietic System

D-18
BILATERALLY SYMMETRIC FOCAL CORTICAL DYSPLASIA IN A GOLDEN RETRIEVER DOG
Keyword: Nervous System

D-19
CHARACTERIZATION OF HISTIOCYTE IBA1 EXPRESSION IN NORMAL CANINE SKIN, INFLAMMATORY LESIONS, AND CUTANEOUS ROUND CELL NEOPLASMS
K. Kim^, C. Zewe, K. Sakaguchi, D. Paulsen, F. Del Piero, and N. Wakamatsu
Keyword: Skin

^ ACVP Diplomate
D-20
EPITHELIOID MALIGNANT PERIPHERAL NERVE SHEATH TUMOR IN THE EYELID OF A CAT WITH LYMPH NODE METASTASIS
M.J. Cruz Penn*, S.H. Jennings, and S. Pizzirani
Keyword: Neoplasia

D-21
EQUINE HERPESVIRUS-9 (EHV-9) MENINGOENCEPHALITIS IN A THOMSON’S GAZELLE
K. Sakaguchi*, K. Kim, G. Pirie, M. Rinaldi, R. Maes, A. Wise, L. Langohr, and F. Del Piero
Keyword: Nervous System

D-22
FELINE PLASMA CELL PODODERMATITIS IN SIBLINGS
Keyword: Skin

D-23
FELINE PULMONARY ADENOSQUAMOUS CARCINOMA: COMPARISON OF CYTOLOGIC AND HISTOLOGIC FINDINGS
K.O. Loria*, S.F. Santagostino, M. Sánchez, and M.P. Sirivelu
Keyword: Neoplasia

D-24
IMMUNOHISTOCHEMICAL CHARACTERIZATION OF CANINE ORAL PAPILLARY SQUAMOUS CELL CARCINOMA (COPSCC)
T. Thaiwong*, A. Collins-Webb, D.G. Sledge, and M. Kiupel
Keyword: Neoplasia

D-25
IMMUNOSTAINING PROFILE OF HISTIOCYTIC SARCOMAS IN THE CENTRAL NERVOUS SYSTEM OF DOGS AND CATS
L.L. Clarke*, E.W. Howerth, and D.R. Rissi
Keyword: Neoplasia

D-26
MALIGNANT (ATYPICAL) CONTAGIOUS ECTHYMA IN A SHEEP
A. Saied*, N. Solis, M. Gill, and R. Bauer
Keyword: Infectious Disease

D-27
NAPSIN-A IMMUNOHISTOCHEMISTRY IN THE DIAGNOSIS OF PRIMARY PULMONARY CARCINOMAS IN DOGS
J.A. Beck*, M.A. Miller, C.B. Frank, D.M. Dusold, and J.A. Ramos-Vara
Keyword: Neoplasia

D-28
RETROSPECTIVE EVALUATION OF EQUINE MENINGOENCEPHALOMYELITIS IN THE NORTHEASTERN UNITED STATES FROM 1996-2013
R.E. Ruby* and A.D. Miller
Keyword: Nervous System
D-29
RHABDOMYOSARCOMA IN AN AMERICAN GUINEA PIG (CAVIA PORCELLUS)
I.J. Kim^ and J. Henningson
Keyword: Neoplasia

D-30
ROSENTHAL FIBER ENCEPHALOPATHY (ALEXANDER’S DISEASE) IN A HORSE
Keyword: Nervous System

D-31
SYSTEMIC CHROMOMYCOSIS IN THREE TEXAS TOADS (BUFO SPECIOSUS)
M. Hensel^ and R. Rech
Keyword: Infectious Disease

D-32
VASCULAR HAMARTOMA IN THE BRAIN OF A COW
Keyword: Nervous System

D-33
A CASE OF LEUKEMIA OF UNKNOWN ORIGIN WITH ALP POSITIVE CELLS AND SEVERE HYPERPHOSPHATASEMIA
R. Froment and C. Bédard
Keyword: Clinical Pathology

D-34
ADRENAL LESIONS OF LEISHMANIASIS IN DOGS FROM SÃO PAULO–BRAZIL
Keyword: Infectious Disease

D-35
APLASIA OF THE CEREBELLAR VERMIS COMBINED WITH CHOROID PLEXUS HYPERPLASIA AND COMMUNICANT HYDROCEPHALUS IN A FOAL
M.V.L. Moreira, I.G. Kassem, M. Palhares, R. Maranhão, and R. Ecco
Keyword: Nervous System

D-36
ATHEROSCLEROSIS WITH SECONDARY MULTIFOCAL DISSECTING ANEURYSM IN A COPPERHEAD SNAKE (AGKISTRODON CONTORTRIX)
H. Kondo and J.R. Abbott
Keyword: Cardiovascular

D-37
BIPHASIC SYNOVIAL SARCOMA FROM THE TENDON/TENDON SHEATH IN A DOG
L.A. Garcia-Camacho, M.T. Diaz-Negrete, C. Cedillo-Peñaez, and I.C. Rangel-Rodríguez
Keyword: Neoplasia
D-38
BIVENTRICULAR AND BIATRIAL DILATION, PULMONARY ARTERY DIROFILARIASIS, AND FOCAL ACUTE MYOCARDIAL INFARCTION IN A BOXER
Keyword: Cardiovascular

D-39
CUTANEOUS MELANOMA AND PHEOCHROMOCYTOMA IN AN AFRICAN GREEN MONKEY (CHLOROCEBUS AETHIOPS SABAEOUS)
F. Castillo-Alcala, A. Beierschmitt, J. Beeler-Marfisi, and J. DeLay
Keyword: Primates

D-40
DEFORMATION OF DORSAL CRESTY NECK AND HYPERLIPIDEMIA SYNDROME IN DONKEYS: A PATHOLOGICAL STUDY
A. Morales Briceño, A. Lamprea Garrido, A. Méndez Sánchez, and J. Pérez Arévalo
Keyword: Endocrine

D-41
DIFFUSE LEptomENIGEAL OLIGODENDROGLIOMATOSIS IN A STAFFORDSHIRE BULL TERRIER DOG
Keyword: Nervous System

D-42
EXPRESSION OF BCL-2, P53 AND KI67 IN SPONTANEOUS CANINE OSTEOBLASTIC OSTEOSARCOMA: A PRELIMINARY STUDY
L. Leonardi, F. Piro, L. Mechelli, F. Roperto, and S. Roperto
Keyword: Bone and Joint

D-43
INTRACRANIAL EPIDERMOID CYST WITH MALIGNANT TRANSFORMATION TO SQUAMOUS CELL CARCINOMA IN A CAT
Keyword: Nervous System

D-44
INTRAOPERATIVE DEATH OF TWO DOGS WITH NON-NEOPLASTIC HEMOPERITONEUM
I. Mitsui
Keyword: Liver and Pancreas

D-45
MALIGNANT JUGULOTYMPANIC PARAGANGLIOMA IN A DOG
J. Ragsdale, N. Takacs, and K. Kuroki
Keyword: Neoplasia

D-46
OXALATE NEPHROSIS IN AFRICAN GREEN MONKEYS (CHLOROCEBUS AETHIOPS SABAEOUS)
F. Castillo-Alcala, J.J. Callanan, A. Beierschmitt, and M.A. Thrall
Keyword: Primates
D-47
PYOGRANULOMATOUS DERMATITIS AND PANNICULITIS DUE TO NOCARDIA NOVA IN A CAT FROM BRAZIL
Keyword: Infectious Disease

D-48
SCHISTOSOME INFECTION AS A CAUSE OF HEMOMELASMA ILEI IN A HORSE
Keyword: Alimentary

D-49
SEROsal MYXOSARCOMA IN A KOALA
V. González Astudillo, A. Schaffer-White, S. Adsett, R. Allavena, and C. Palmieri
Keyword: Wildlife

D-50
SPONTANEOUS HISTOPATHOLOGY OF CAPTIVE FAT-TAILED DUNNARTS
D.P. Taylor
Keyword: General Topic

D-51
SYSTEMIC ABSCESS CAUSED BY TRUEPERELLA PYOGENES IN THE GROWING PIG
S. Yoon, J. Jung, Y. Jeong, J. Her, J. Lee, H. Kim, M. Lee, and Y. Joo
Keyword: Infectious Disease

D-52
TOXOPLASMOSIS IN AN ADULT BLIND BACKYARD CHICKEN
I. Cornax, V. Kulshreshtha, and N. Wakamatsu
Keyword: Avian

D-53
A CASE OF TRYpanosoma CRUZI INFECTION IN AN OLD DOG FROM FEDERAL DISTRICT, BRAZIL
Keyword: Infectious Disease

D-54
A CASE STUDY OF DISSEMINATED PHAEOHYPHOMYCOSIS IN CAPTIVE MUDPUPPIES (NECTURUS MACULOSUS)
J. Foote, L. Mangus, K. Kelly, E. Bronson, A. Wack, and K. Baktiar
Keyword: Infectious Disease

D-55
ADVANCED PATHOLOGIC ANALYSIS OF A FELINE MICROCHIP-ASSOCIATED FIBROSARCOMA
M.T. O’Brien, N.D. Jackson, T. Lancon, H. Smith, F.J. Clubb and B. Weeks
Keyword: Neoplasia
D-56
DENS AGENESIS IN A SILVER LABRADOR PUPPY
S.J. Vitosh-Sillman, E.N. Salas, H.E. Cerny, and S.P. Harris
Keyword: Bone and Joint

D-57
DISCOVERY AND EVALUATION OF BONY CHANGE IN THE MANDIBLE OF A STRANDED RISSO’S DOLPHIN USING COMPUTERIZED TOMOGRAPHY, THREE-DIMENSIONAL RECONSTRUCTION, AND HISTOPATHOLOGY
Keyword: Bone and Joint

D-58
FATAL RESPIRATORY CYATHOSTOMIASIS IN TWO SNOWY OWLS (BUBO SCANDIACUS) IN RHODE ISLAND
A.I. Blanco, M.C. Kuhar, and R.E. Burns
Keyword: Wildlife

D-59
FELINE INFECTIOUS PERITONITIS-LIKE SYNDROME IN A FERRET
Keyword: Ferret

D-60
IMMUNOHISTOCHEMICAL CHARACTERIZATION OF BLA.36 IMMUNOREACTIVITY IN THE BRAIN
R.A. Ruby and A.D. Miller
Keyword: Nervous System

D-61
NECROSUPPURATIVE CYSTITIS AND PERITONITIS CAUSED BY STAPHYLOCOCCUS XYLOSUS INFECTION IN A CALF
E.J. Elsmo, S. Sanchez, and D.R. Rissi
Keyword: Urinary System

D-62
OCCIPITAL CONDYLAR DYSPLASIA IN JACOB SHEEP
E. Ellis and C.A. Brown
Keyword: Bone and Joint

D-63
PERFORATION OF THE LEFT AURICLE SECONDARY TO MITRAL VALVE INSUFFICIENCY INDUCED BY CHORDAE TENDINAE RUPTURE, IN AN AFRICAN WARTHOG (PHACOCHOERUS AFRICANUS)
R. McManamon, E.W Uhl, and S. Rivera
Keyword: Cardiovascular
D-64
PROLIFERATIVE INTERSTITIAL PNEUMONIA IN A BALL PYTHON (PYTHON REGIUS) ASSOCIATED WITH A NOVEL EMERGING FILAMENTOUS VIRUS
W.A. Baumgartner, M.D. Stenglein, K. Kelley, J. Towner, E.R. Jacobsen, and J.L DeRisi
Keyword: Infectious Disease

D-65
PROXIMAL INTESTINAL FOREIGN BODY OBSTRUCTION RESULTING IN GASTRIC RUPTURE IN A FLORIDA MANATEE (TRICHECUS MANATUS LATIROSTRIS)
Keyword: Wildlife

D-66
XANTHOGRANULOMATOUS COELOMITIS WITH INTRALESIONAL ACID-FAST POSITIVE BACTERIA IN A PIGEON
A. Walsh, S. Santagostino, and A. Durham
Keyword: Avian

D-67
EQUINE PANCREATIC NECROSIS: 4 CASES
S.J. Newman
Keyword: Liver and Pancreas

D-68
CLOSTRIDIUM SORDELLII-ASSOCIATED GAS GANGRENE IN HORSES
F.A. Uzal, J. Ortega Porcel, and K.C. Fresneda
Keyword: Muscle

D-69
ANNEXIN A1 AS A NEW BIOMARKER IN CANINE MAMMARY TUMOR
M. Luzzi, T. Raposo, A. Girol, R. Amorim, and A. Nardi
Keyword: Mammary

D-70
INTRAVASCULAR T-CELL LYMPHOMA IN A DOG
Keyword: Neoplasia

D-71
BOVINE ABORTIONS, OPHTHALMITIS AND POLYARTHROPATHIES ASSOCIATED WITH UREAPLASMA SPP. IN NORTHEASTERN UNITED STATES
Keyword: Bone and Joint

*Competitor for the ACVP Young Investigator Award
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EDUCATION FOCUSED SCIENTIFIC POSTER PRESENTATIONS

ED-1
EDUCATIONAL RESOURCE UTILIZATION IN THE VETERINARY CURRICULUM AND POST-GRADUATION
B. Garner, D. Hartle, and K. Creevy
Keyword: General Topic

ED-2
DIGITAL ATLAS OF COMPARATIVE PATHOLOGY IN DOMESTIC ANIMALS AS A TOOL FOR TEACHING INNOVATION IN VETERINARY MEDICINE IN VENEZUELA
A. Morales Briceño, A. Méndez Sanchez, and M. Morales Briceño
Keyword: General Topic

EXPERIMENTAL DISEASE FOCUSED SCIENTIFIC POSTER PRESENTATIONS

E-1
COMPARISON OF PORCINE CIRCOVIRUS TYPE 2 (PCV2)-ASSOCIATED LESIONS PRODUCED BY CO-INFECTION BETWEEN TWO GENOTYPES OF PCV2 AND TWO GENOTYPES OF PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS
C. Park, D. DoTien, D. Kwon, and C. Chae
Keyword: Infectious Disease

E-2
ASSESSMENT OF NDV NEUROPATHOGENESIS THROUGH THE ICPI MODEL
V.M.B.D Moura, L. Susta, C.C. Brown, P.J. Miller, S. Cardenas-Garcia, and C.L. Afonso
Keyword: Avian

E-3
INHIBITION OF TLR4 WITHIN THE PVN ATTENUATES HYPERTENSION AND INFLAMMATORY SIGNALING CASCADE IN SPONTANEOUSLY HYPERTENSIVE RATS
R.B. Dange#, D. Agarwal, and J. Francis
Keyword: Infectious Disease

E-4
KINETICS OF RESPIRATORY SYNCYTIAL VIRUS (RSV) MEMPHIS STRAIN 37 (M37) INFECTION IN THE RESPIRATORY TRACT OF NEWBORN LAMBS AS AN RSV INFECTION MODEL FOR HUMAN INFANTS
Keyword: Infectious Disease

E-5
KRASG12V EXPRESSION IN ZEBRAFISH GILLS CAUSES HYPERPLASIA AND CXCL8-ASSOCIATED INFLAMMATION
H.R. Shive, R.R. West, L.J. Embree, J.M. Sexton, and D.D. Hickstein
Keyword: Neoplasia
E-6
LIPOPOLYSACCHARIDE IMPROVES SURVIVABILITY DURING ACUTE RABIES INFECTION IN MICE
S. Mooyottu, R. Singh, and K.P. Singh
Keyword: Nervous System

E-7
LONG TERM COMPENSATORY LUNG REGROWTH FOLLOWING PNEUMONECTOMY IN AGED C57BL/6 MICE
K.E. O’Connell^, A. Davis, J.A. Paxson, and A.M. Hoffman
Keyword: Respiratory System

E-8
LONGITUDINAL COMPARISON OF NEUROPATHOLOGIC FEATURES IN TWO MURINE MODELS OF SCRAPIE
T.A. Harm, M.S. Lind, J.J. Greenlee, M.H. West Greenlee, and J.D. Smith
Keyword: Nervous System

E-9
NECROPSY FINDINGS FROM A STUDY OF INTRAPERITONEAL EUTHANASIA IN RATS
C.G. Knight, K. Zatroch, and D.S.J. Pang
Keyword: General Topic

E-10
NEUROPATHOLOGY ASSOCIATED WITH INDUCED ORGANOPHOSPHATE TOXICITY IN RATS
S. Sisó, D.A. Bruun, B.A. Hobson, Y. Ouyang, D.J. Rowland, R.J. Higgins, and P.J. Lein
Keyword: Toxicologic Pathology

E-11
PARASITE DYNAMICS DURING EXPERIMENTAL PLASMODIUM VIVAX INFECTION IN SQUIRREL MONKEYS (SAIMIRI SCIUREUS)
K.E. O’Connell^, K. Shaw Saliba, C. Lim, C. Jefferson, L. Wachtman, S. Westmoreland, and M. Duraisingh
Keyword: Infectious Disease

E-12
PARVOVIRUS MINUTE VIRUS OF CANINE (MVC) NP1 MODULATES ALTERNATIVE SPLICING AND POLYADENYLATION OF MVC PRE-MRNA
O. Fasina^ and D. Pintel
Keyword: Infectious Disease

E-13
PATHOGENICITY OF CHIMERIC H17N10 BAT INFLUENZA VIRUS IN A MOUSE MODEL
Keyword: Respiratory System

^ ACVP Diplomate
E-14
PATHOLOGICAL AND GENETIC ASPECTS OF SCRAPIE IN GOATS EXPERIMENTALLY AND NATURALLY EXPOSED TO AN OVINE SCRAPIE ISOLATE
C. Maestrale, M.G. Cancetta, D. Pintus, A. Carta, M. Masia, P. Cabras, and C. Ligios
Keyword: Nervous System

E-16
PULMONARY MYELOID CELL POPULATIONS ARE SIMILAR BETWEEN TUMOR-BEARING HIGH FAT AND LOW FAT DIET FED MICE
S.D. Cramer*, R.S. Goldszmid, and G.T. Trinchieri
Keyword: Immune System

E-17
STUDY OF THE DEVELOPMENT OF THE MOUSE THORACIC AORTA THREE-DIMENSIONAL MACROMOLECULAR STRUCTURE USING TWO-PHOTON MICROSCOPY
Keyword: Cardiovascular

E-18
VALIDATION OF NORMAL HUMAN BRONCHIAL EPITHELIAL CELLS AS A MODEL FOR HUMAN INFLUENZA A VIRUS INFECTIONS
S.A. Davis*, D.S. Chertow, J.E. Moyer, A. Sandouk, J.B. Suzich, C. Logun, J.H. Shelhamer, and J.K. Taubenberger
Keyword: Infectious Disease

E-19
A T CELL-INDEPENDENT ROLE FOR TYPE I INTERFERON SIGNALING IN CD8+ T CELL EFFECTOR FUNCTION AND DIFFERENTIATION DURING MHV68 INFECTION
R.N. Jennings, J.M. Grayson, and E.S. Barton
Keyword: Immune System

E-20
CANINE AND EQUINE H3N8 INFLUENZA VIRUS REPLICATION AND INDUCED CYTOKINE PRODUCTION IN PRIMARY CANINE ALVEOLAR MACROPHAGES AND AIRWAY EPITHELIAL CELLS
W.L. Castleman and C.W. Hancock
Keyword: Respiratory System

E-21
CELLULAR SENESCENCE INDUCED BY ONCOGENIC H-RAS PROMPTS EXOSOME RELEASE
L. Urbanelli, L. Leonardi, K. Sagini, S. Buratta, and C. Emiliani
Keyword: Neoplasia

E-22
CFTR EXPRESSION IS STIMULATED BY FGF10 AND CONTRIBUTES TO LIQUID SECRETION DURING BRANCHING MORPHOGENESIS IN THE DEVELOPING LUNG
Keyword: Respiratory System
E-23
CHARACTERIZATION OF FUNCTIONAL COMPONENTS OF THE BLOOD-BRAIN BARRIER IN PERMEABLE AND IMPERMEABLE BRAIN METASTASES FROM BREAST CANCER
L.T. Reed Lyle*, B. Grl, D. Palmieri, G. Mason, and P.S. Steeg
Keyword: Neoplasia

E-24
CHARACTERIZATION OF INFLAMMATION DURING OBESITY DEVELOPMENT IN CATS
E.C. Graff* and R.L. Judd
Keyword: Immune System

E-25
CO-MUTATION OF IDH1 AND FLT3: A GENETICALLY ENGINEERED MOUSE MODEL OF ACUTE MYELOGENOUS LEUKEMIA
E. Lind, M. Larsen, W. Yi, Z. Hao, R. Cairns, P. Ohashi, and T. Mak
Keyword: Neoplasia

E-26
COMPARATIVE ANALYSIS OF CYTOKINE TRANSCRIPT PROFILES WITHIN MEDIASTINAL LYMPH NODE COMPARTMENTS OF PIGS AFTER INFECTION WITH PRRS-1 STRAINS OF DIFFERENT PATHOGENICITY
Keyword: Infectious Disease

E-27
COMPARISON OF RESPIRATORY LESIONS IN NATURAL AND EXPERIMENTAL INFECTIONS OF BIGHORN SHEEP WITH MYCOPLASMA OVIPNEUMONIAE
K.A. Potter, E.F. Cassirer, K.G. Mansfield, and T.E. Besser
Keyword: Respiratory System

E-28
DYSPLASTIC HEPATOCYTES DEVELOP NUCLEAR INCLUSIONS IN A MOUSE MODEL OF VIRAL HEPATITIS
P. Thakur, F. Lamoke, J.M. Chaffin, M. Bartoli, J.R. Lee, and M.B. Duncan
Keyword: Liver and Pancreas

E-29
EARLY PRION TRAFFICKING IN DEER EXPOSED TO CHRONIC WASTING DISEASE
Keyword: Infectious Disease

E-30
EXTRACELLULAR PARTICLES AND RNA IN HIV AND SIV INFECTION
D. Muth*, M. McAlexander, B. Ihms, J. Blankson, and K.W. Witwer
Keyword: Infectious Disease
E-31
GENETIC AND PHARMACOLOGIC INHIBITION OF MTOR DELAYS
THYMIC LYMPHOMA FORMATION AND DECREASED CDK6
LEVELS
J. Gary^, J. Xu, J. Simmons, S. Zhang, B. Gamache, K. Zhang, A.
Michalowski, W. Dubois, J.R. Testa, and B. Mock
Keyword: Neoplasia

E-32
GUT-BRAIN-AXIS: A ROTAVIRUS/CORONAVIRUS ENTERITIS
PIGLET MODEL
X. Zhang and S. Lezmi
Keyword: Alimentary

E-33
HEMOSTATIC FACTORS PLAY A KEY ROLE IN INDUCTION OF
PANCREATIC STEM CELLS IN LIVER
S. Shanmukappa
Keyword: Mammary

E-34
HISTOLOGIC AND IMMUNOHISTOCHEMICAL
CHARACTERIZATION OF MALIGNANT PERIPHERAL NERVE
SHEATH TUMORS IN ZEBRAFISH
L.A. White and H.R. Shive
Keyword: Neoplasia

E-35
HISTOLOGIC CHANGES IN PORCINE VOCAL FOLDS EXPOSED
TO LIQUID AND AEROSOLIZED ACIDIFIED PEPSIN
A. Durkes, P.W. Snyder, and M. Sivasankar
Keyword: Alimentary

E-36
IDENTIFICATION OF EVOLUTIONARILY CONSERVED CYTOTOXIC
T-CELL EPITOPES IN HUMAN AND VETERINARY LENTIVIRUSES
FOR THE PRODUCTION OF A VACCINE AGAINST HIV-1
S.R. Roff^, M.P. Sanou, M.H. Rathore, J.A. Levy, and J.K.
Yamamoto
Keyword: Infectious Disease

E-37
IMMUNE RESPONSE DURING GRANULOCYTIC ANAPLASMOSIS
IN A MOUSE MODEL LACKING TYPE I AND TYPE II INTERFERON
_SIGNALING
J.L. Johns, M.L. Discipulo, and C.M. Nagamine
Keyword: Infectious Disease

E-38
IMMUNOPHENOTYPIC AND TEMPORAL CHARACTERIZATION OF
EXPERIMENTAL AUTOIMMUNE ENCEPHALITIS IN A COMMON
MARMOSET MODEL OF MULTIPLE SCLEROSIS
S.C. Macri, P. Maggi, E. Leibovitch, J.E. Wohler, M. Ellis, H.L.
Knight, C. Pearson, L. Massacesi, D.S. Reich, S. Jacobson, and
S.V. Westmoreland
Keyword: Primates
E-39
IN VITRO EFFECTS OF OXIDIZED LOW DENSITY LIPOPROTEIN ON JOINT HEALTH
K. Kuroki, C.R. Kennedy, A.M. Stoker, and J.L. Cook
Keyword: Bone and Joint

E-40
IN VIVO 2P-LSM IMAGING OF MICROGLIA-GLIOMA INTERACTION IN A FLUORESCENT MURINE MODEL OF GLIOMA
F.F.B. Resende, A. Scheller, E. Del-Bel, R. Titze-de-Almeida, and F. Kirchhoff
Keyword: Neoplasia

E-41
PATHOGENICITY OF WILD BIRD H7 INFLUENZA VIRUSES IN DBA/2J MICE
Keyword: Infectious Disease

E-42
PATHOLOGICAL AND PHYLOGENETIC CHARACTERIZATION OF NEWCASTLE DISEASE VIRUSES FROM ISRAEL AND PAKISTAN
Keyword: Avian

E-43
PATHOLOGY OF DENGUE VIRUS INFECTION AND REPLICATION IN AN AG129 MOUSE MODEL OF ANTIBODY DEPENDENT ENHANCEMENT
K. Sakaguchi+, K. Kim, W. Tang, S. Shresta, and N. Wakamatsu
Keyword: Infectious Disease

E-44
SPONTANEOUS TUMORS IN CHIMERIC RATS GENERATED FROM DARK AGOUTI ES CELLS
K. Yekkela*, J.M. McGrath, and C.J. Zeiss
Keyword: Neoplasia

E-45
SUPPRESSION OF OVARIAN CANCER GROWTH AND METASTASIS WITH HO-3867, A STAT3 INHIBITOR, IN EX VIVO SLICE CULTURE OF HUMAN TUMORS AND ORTHOTOPIC TUMOR MOUSE MODELS
Keyword: Toxicologic Pathology

E-46
THE EFFECT OF AMBLYOMMA MACULATUM FEEDING ON RICKETTSIA PARKERI INFECTION IN RHESUS MACAQUES
Keyword: Infectious Disease
THE NFKB PATHWAY IS AN ESSENTIAL COMPONENT FOR LINEAGE COMMITMENT IN THE PBCRE4;PTENFL/FL;TRP53FL/FL PROSTATE CANCER MOUSE MODEL
H.S. Tilman, J.J. Yin, Y. Liu, P. Hynes, and K. Kelly
Keyword: Neoplasia

THE ROLE OF EOSINOPHILS IN THE PATHOGENESIS OF RESPIRATORY SYNCYTIAL VIRUS INFECTION
G. Green, N. Petrov, D. Huey, K. LaPerle, and S. Niewiesk
Keyword: Infectious Disease

TRANSCRANIAL ADENOSINE RECEPTOR AGONISM IS NEUROPROTECTIVE FOLLOWING MILD TRAUMATIC BRAIN INJURY
K.N. Corps and D.B. McGavern
Keyword: Nervous System

WNT SIGNALING IN PROSTATE CANCER BONE METASTASIS
J. Simmons, W. Dirksen, and T. Rosol
Keyword: Neoplasia

*Competitor for the ACVP Young Investigator Award
#Competitor for the ACVP/ASIP Meeting Travel Award

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T-4
GOSSYPOL INTERFERENCE IN BLOOD AND SPLEEN CELLS IN RATS
B. Soto-Blanco, I.C.N. Gadelha, M.F. Macedo, S.C.S. Oloris, and M.M. Melo
Keyword: Immune System

T-5
NSAIDS INHIBIT CELL MIGRATION AND CALPAIN EXPRESSION IN RAT DUODENUM
B. Bawa, K. Silver, and J.D. Lillich
Keyword: Toxicologic Pathology

T-6
PROPHYLACTIC AND THERAPEUTIC EFFECTS OF A LIPOPHILIC NANOPARTICLE OR A FAT EMULSION IN MICE ADMINISTERED T-2 MYCOTOXIN
K.M. Boes, M.F. Ehrich, B.S. Jortner, S. Werre, J. Hinckley, R. Tyler Jr., K.L Zimmerman, and Z. Zhou
Keyword: Hematopoietic System

T-7
RETAINED BILATERAL FETAL ADRENAL CORTEX IN A 2.4-YEAR-OLD CYNOLOGUS MONKEY
Z. Radi and M. Evans
Keyword: Primates

T-8
SILENCING OF KV9.3 POTASSIUM CHANNEL INHIBITS PROLIFERATION OF COLON AND LUNG CARCINOMA CELLS
Keyword: Toxicologic Pathology

T-9
ANALYSES OF HEPATIC MACROPHAGES DEPLETED BY CLODRONATE IN RAT LIVER
M. Pervin, H.M. Golbar, B. Alexandra, K.K. Wijesundera, T. Izawa, M. Kuwamura, and J. Yamate
Keyword: Toxicologic Pathology

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N-1
MYCOPLASMA BOVIS INFECTION IN BOS INDICUS CALVES
F. Mahmood, A. Khan, M.T. Zakria, S.U. Rehman, and M.M. Alam
Keyword: Infectious Disease

N-2
‘DOPEY FOX SYNDROME’: AN ENCEPHALITIS IN WILD RED FOXES (VULPES VULPES) IN EAST ANGLIA, GREAT BRITAIN
A.L. Stoll, S. Bexton, J.A. Mitchell, and S.L. Priestnall
Keyword: Wildlife
N-3
ISOLATION OF EQUINE HERPESVIRUS 3 FROM CORNEAL AND CUTANEOUS LESIONS IN A THREE-MONTH-OLD FOAL
S. Shrader, J. Koehler, M. Barba Recreo and A. Stewart
Keyword: Infectious Disease

N-4
RETROSPECTIVE STUDY CHARACTERIZING PARELAPHOSTRONGYLUS SPECIES IN DOMESTIC CAMELIDS, WILD UNGULATES, AND A GOAT USING HISTOPATHOLOGICAL AND MOLECULAR TECHNIQUES
C. Dobey, C. Grunenwald, S.J. Newman, L. Muller, and R.W. Gerhold
Keyword: Nervous System

N-5
A RETROSPECTIVE ANALYSIS OF FRACTURE EPIDEMIOLOGY, WITH PATHOLOGICAL ANALYSIS OF FRACTURE HEALING PROCESSES IN KOALAS
V. Gonzalez Astudillo^, J. Henning, C. Hannon, A. McKinnon, and R.E. Allavena
Keyword: Wildlife

N-6
AFRICAN HORSE SICKNESS IN NAMIBIA: CLINICAL, PATHOLOGICAL AND MOLECULAR FINDINGS
M. Scacchia, U. Molini, G. Marruchella, A. Maseke, G. Bortone, G.M. Cosseddu, F. Monaco, G. Savini, and A. Pini
Keyword: Infectious Disease

N-7
CLINICOPATHOLOGIC CHARACTERIZATION OF ACUTE THEILERIA PARVA INFECTION IN HOLSTEIN CALVES
Keyword: Infectious Disease

N-8
EVIDENCE OF EPITHELIAL-MESENCHYMAL TRANSITION IN NEOPLASTIC PROCESS OF CANINE PROSTATE
Keyword: Neoplasia

N-9
FOOTPAD HYPERKERATOSIS IN A CAT: A DISORDER OF CORNIFICATION & THE HUMAN PALMOPLANTAR KERATODERMAS
Keyword: Skin

N-10
FOUR CASES OF FATAL TOXOPLASMOsis IN THREE SPECIES OF ENDEMIC NEW ZEALAND BIRDS
L. Howe, S. Hunter, L. Burrows, and W. Roe
Keyword: Wildlife
N-11
LIMITED GENETIC VARIABILITY OF THE APICAL MEMBRANE ANTIGEN-1 OF CYTAUXZOOZ FELIS FROM DOMESTIC CATS AND BOBCATS
L.S. Kelly, H.M. Brown, and D.S. Peterson
Keyword: Infectious Disease

N-12
OPTIMIZATION OF CANINE DISTEMPER VIRAL (CDV) PROTEIN SEQUENCES TO HUMAN OR CANINE CODON USAGE BIAS INCREASES PROTEIN EXPRESSION AND SEQUENCE IDENTITY TO WILD TYPE HUMAN MEASLES VIRUS (HMV)
E.W. Uhl, M.L. Osborn, F. Michel, and R.J. Hogan
Keyword: Infectious Disease

N-13
PATHOLOGIC FINDINGS IN WILD RATS (RATTUS RATTUS) CAPTURED AT GUAFO ISLAND, NORTHERN CHILEAN PATAGONIA
M. Seguel^, F. Muñoz, E. Paredes, H. Pavés, R. Schlatter, and N. Gottdenker
Keyword: Wildlife

N-14
PATHOLOGY OF THE DISTAL THIRD METACARPAL/METATARSAL BONE AND INCIDENCE OF LATERAL CONDYLAR FRACTURES IN NEW YORK STATE THOROUGHBRED RACE HORSES: 42 CASES
B.G. Caserto
Keyword: Bone and Joint

N-15
PREVALENCE AND IDENTIFICATION OF BARTONELLA IN CANINE CAVITARY EFFUSIONS
A.L. Weeden^, H.L. Wamsley, N.A. Cherry, and E.B. Breitschwerdt
Keyword: Infectious Disease

N-16
PROGNOSTIC SIGNIFICANCE OF EPITHELIAL-MESENCHYMAL TRANSITION MARKERS IN CANINE ORAL MELANOMA
V.S. Chen^ and K.D. Woolard
Keyword: Neoplasia

N-17
STRAIN-RELATED LESION VARIABILITY IN AGING DBA/2J, C57BL/6, AND DBA/2J X C57BL/6 MICE
C.E. Harbison^, R.D. Lipman, and R.T. Bronson
Keyword: None of the Above

N-18
SURVEY OF ANGIOSTRONGYLUS CANTONENSIIS IN FLORIDA
Keyword: Infectious Disease

^ ACVP Diplomate
N-19
TARGETING OF THE MAPK AND AKT/MTOR PATHWAYS SHOWS THERAPEUTIC PROMISE IN CANINE MALIGNANT MELANOMA
Keyword: Neoplasia

N-20
THE ROLE OF THE IMMUNE RESPONSE IN THE PATHOGENESIS OF CONTAGIOUS BOVINE PLEUROPNEUMONIA: IMMUNOHISTOCHEMICAL AND CONFOCAL LASER SCANNING INVESTIGATIONS
Keyword: Infectious Disease

N-21
A CRITICAL INVESTIGATION OF THE CLINICAL AND HISTOLOGICAL FEATURES OF BENIGN FIBROUS GINGIVAL LESIONS IN DOGS
C.M. Bell and J.W. Soukup
Keyword: Alimentary

N-22
AN OUTBREAK OF STREPTOCOCCUS EQUI ZOOEPIDEMICUS BRONCHOPNEUMONIA IN A LOUISIANA KENNEL: THEN AND NOW
N. Crossland*, A. Kawabata, N. Fowlkes, K. Kim, J. Timoney, and F. Del Piero
Keyword: Respiratory System

N-23
CUTANEOUS AND SPLENIC MASTOCYTOSIS IN A JUVENILE MALAYAN TIGER (PANTHERA TIGRIS JACKSONI)
N.L. Stedman, R.C. Smedley, and M. Kiupel
Keyword: Neoplasia

N-24
EXTRAMEDULLARY SPINAL OLIGODENDROGLIOMA IN A CAT
M. Broman*, M. Reese, J. Lee, and M. Miller
Keyword: Neoplasia

N-25
GLOMERULAR LIPIDOSIS IN DOGS: A LESION ON THE SPECTRUM OF FOCAL SEGMENTAL GLOMERULOSCLEROSIS
R. Kohnken* and R. Cianciolo
Keyword: Urinary System

N-26
HISTOLOGIC EVALUATION AND CHARACTERIZATION OF DEGENERATIVE CHANGES OF ENDOMETRIAL AND UTERINE ARTERIES IN MARES
A.G. Toro* and N.M. Williams
Keyword: Reproductive System

N-27
NEUROPATHOLOGY OF CYTAUXZOOM FELIS INFECTION IN DOMESTIC CATS
D.R. Rissi and L.L. Clarke
Keyword: Nervous System
N-28  
**PAX8 AS AN IMMUNOHISTOCHEMICAL MARKER OF THYROID DIFFERENTIATION IN CANINE THYROID NEOPLASIA**  
J.A. Ramos-Vara, C.F. Frank, D.M. Dusold, and M.A. Miller  
Keyword: Neoplasia

N-29  
**PHYLOGENETIC AND HISTOCHEMICAL CHARACTERIZATION OF CANINE DISTEMPER VIRUS IN MULTIPLE TERRESTRIAL SPECIES**  
A.N. Cartoceti*, M.K. Keel, J. Victoria, and P. Pesavento  
Keyword: Infectious Disease

N-30  
**PREVALENCE AND PATHOLOGIC FEATURES OF FIBROUS OSTEODYSTROPHY IN HORSES IN COLOMBIA: 23 CASES (1971-2012)**  
J. Ospina and B. Doncel Diaz  
Keyword: Bone and Joint

N-31  
**PRIMARY FOCAL SEGMENTAL GLOMERULOSCLEROSIS IN MINIATURE SCHNAUZERS**  
W. Yau*, L. Mausbach, and C. Brown  
Keyword: Urinary System

N-32  
**PROTEOMIC ANALYSIS OF HIGHLY PREVALENT AMYLOID A (AA) AMYLOIDOSIS IN ENDANGERED ISLAND FOXES (UROCYON LITTORALIS)**  
Keyword: Wildlife

N-33  
**RICKETS IN A STRANDED CETACEAN**  
T.D. Redford, P.J. Duignan, M. Piscitelli, P. Cottrell, and S. Raverty  
Keyword: Wildlife

N-34  
**SYSTEMIC ADENOVIRUS INFECTION IN A CAPUCHIN MONKEY (CEBUS CAPUCINUS)**  
L. Kattenhorn*, J. Graham, A. Miller, and S. Macri  
Keyword: Primates

N-35  
**SYSTEMIC REACTIVE ANGIOENDOTHELIOMATOSIS IN A CAT WITH NEUROLOGIC DISEASE**  
C.G. Knight and J.L. Davies  
Keyword: Cardiovascular

N-36  
**THE EFFECTS OF STRESS ON THE ECOLOGY OF NEOSPORA CANINUM IN BISON (BISON BISON)**  
Keyword: Wildlife

*Competitor for the ACVP Young Investigator Award

*ACVP Diplomate
Veterinary Student Posters will be available for viewing in the International Hall at the following times:

Sunday, November 9 ........................................ 9:30 a.m.–4:30 p.m.
Monday, November 10 ................................. 9:30 a.m.–1:00 p.m.
Tuesday, November 11 ................................. 9:30 a.m.–3:30 p.m.

Poster Setup:
Sunday, November 9 ........................................ 7:00 a.m.-9:00 a.m.

Poster Teardown:
Tuesday, November 11 ................................. 3:30 p.m.-4:30 p.m.

**CLINICAL CASE REPORT/SERIES**

**Veterinary Student Poster #1**
FIBROBLASTIC OSTEOSARCOMA WITH SQUAMOUS EPITHELIAL CELLS IN THE RIGHT DISTAL FEMUR OF A GREYHOUND
T.L. Jenkins, E. Uhl, and D.R. Rissi
University of Georgia College of Veterinary Medicine, Athens, GA

**Veterinary Student Poster #2**
GENOTYPIC CHARACTERIZATION OF CANINE CORONAVIRUSES ASSOCIATED WITH FATAL CANINE NEONATAL ENTERITIS IN THE UNITED STATES
B.N. Licitra, E.J. Dubovi, G.R. Whittaker, and G.E. Duhamel
Cornell University; New York Animal Health Diagnostic Center, Ithaca, NY

**Veterinary Student Poster #3**
VULVO-VAGINAL TRANSMISSIBLE VENEREAL TUMOR WITH LYMPH NODE METASTASES IN A YOUNG DOG
H. Huynh, A. Peda, and O. Illanes
Ross University School of Veterinary Medicine, St. Kitts, West Indies

**Veterinary Student Poster #4**
A RETROSPECTIVE STUDY OF PERDIDO KEY BEACH MICE (*PEROMYSCUS POLIONOTUS TRISSYLEPSIS*) SUBMITTED TO THE UNIVERSITY OF GEORGIA FROM APRIL 2013 TO MAY 2014
A.D. Byas¹, E.W. Howerth¹, and T. Zachariah²
¹The University of Georgia and ²Brevard Zoo

**Veterinary Student Poster #5**
RENAL HYALINE DROPLETS IN A DOG WITH HISTIOCYTIC SARCOMA
C.F. Monahan and L.E. Craig
University of Tennessee College of Veterinary Medicine, Knoxville, TN
Veterinary Student Poster #6
ESOPHAGEAL OSTEOSARCOMA AND HYPERTROPHIC OSTEOPATHY IN A DOG WITH CHRONIC SPIROCERCA LUPIN-INDUCED ESOPHAGITIS
L. Robinson, M. Arauz, A. Pedra, S. Jones, W. du Plessis, and O. Illanes
Ross University School of Veterinary Medicine, St. Kitts, West Indies

Veterinary Student Poster #7
CRYPTOCOCCUS GATTII INFECTION IN A HORSE FROM THE EASTERN UNITED STATES
J. Lebovitz, K.M. Boes, M. Vieson, G. Saunders, B. Burkett, and W.K. Scarratt
Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA

Veterinary Student Poster #8
DISEASE ATTRIBUTED TO MYCOBACTERIUM CHELONAE IN LABORATORY COLONY OF MISSISSIPPI GOPHER FROGS
M.F. Dalton, J. Cooley, and F. Austin
Mississippi State University, Starkville, MS

Veterinary Student Poster #9
DIQUAT ACUTE RENAL TUBULAR NECROSIS IN CHANNEL CATFISH (ICTALURUS PUNCTATUS) FINGERLINGS
C.R. Hanks, J.P. Hawke, and F. Del Piero
Louisiana State University School of Veterinary Medicine, Baton Rouge, LA

Veterinary Student Poster #10
OUTBREAK OF BURKHOLDERIA CENOCEPACIA AS A CAUSE OF SUPPURATIVE CELLULITIS IN FIVE CATS
1University of Georgia, Athens, GA and 2Lance Animal Hospital, Gainesville, GA

Veterinary Student Poster #11
INFLITRATIVE OMASAL LIPOMATOSIS IN A BRANGUS BULL
C. Barbic and T. Morgan
Mississippi State University College of Veterinary Medicine, Starkville, MS

Veterinary Student Poster #12
RECLASSIFYING PULMONARY CARCINOMAS IN DOGS
K. Carlton1, D. Hwang2, and J. Caswell3
1University of Guelph, Guelph ON and 2University Health Network and University of Toronto, Toronto, Ontario

Veterinary Student Poster #13
GROSS AND HISTOPATHOLOGICAL LESIONS OF RENAL STEPHANURIASIS IN SAINT KITTS SWINE
D.T. Morosco, O. Illanes, and C. Fuentealba
Ross University School of Veterinary Medicine, Saint Kitts, West Indies
Veterinary Student Poster #14
EPIZOOTIC DIARRHEA IN FERRETS (MUSTELA PUTORIUS FURO) ASSOCIATED WITH COLONIC INFECTION BY CLOSTRIDIUM PILIFORME
B. Curtis1, D.G. Sledge1, K. Shirota2, and M. Kiupel1
1Michigan State University, Lansing, MI and 2Azabu University, Sagamihara, Kanagawa, Japan

Veterinary Student Poster #15
BACTERIAL GRANULOMATOUS NEPHRITIS WITH COLLECTING DUCT SQUAMOUS METAPLASIA IN TWO AMERICAN ALLIGATORS (ALLIGATOR MISSISSIPPIENSIS)
D.A. Recinos1, J. Nevarez2, and F. Del Piero2
1Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies and 2Louisiana State University School of Veterinary Medicine, Baton Rouge, LA

Veterinary Student Poster #16
ANGIOMATOSIS IN AN AGED ZOO BEAR (URSUS ARCTOS)
L. Paschal1 and D. Agnew2
1Tuskegee University School of Veterinary Medicine, Tuskegee, AL and 2Michigan State University, East Lansing, MI

Veterinary Student Poster #17
A RETROSPECTIVE EVALUATION OF THROMBOMODULIN EXPRESSION IN TISSUES FROM DOGS WITH SYSTEMIC INFLAMMATORY DISEASE
University of Guelph, Guelph, ON

Veterinary Student Poster #18
MORPHOLOGIC AND MOLECULAR SURVEILLANCE STUDY OF INFECTIOUS AGENTS IN THE KIDNEYS OF SWINE SLAUGHTERED AT THE SAINT KITTS ABATTOIR
Ross University School of Veterinary Medicine, St. Kitts, West Indies

Veterinary Student Poster #19
HEMORRHAGIC SUDDEN DEATH IN RACING GREYHOUNDS: PRELIMINARY DATA INVESTIGATING A VASCULAR PATHOGENESIS
A.J. Stephens and A. Brower
University of Nottingham, United Kingdom

Veterinary Student Poster #20
CONGENITAL LOBAR EMPHYSEMA IN A DOG
E. Yanovich, T. Cecere, and A. Bachelez
Virginia–Maryland Regional College of Veterinary Medicine, Blacksburg, VA

Veterinary Student Poster #21
LEFT VENTRICULAR HYPOPLASIA AND DOUBLE OUTLET RIGHT VENTRICLE IN A CALF
C.E. Davila1, K. Whitman2, and A. Alcaraz1
1Western University of Health Sciences, Pomona, CA and 2University of Nebraska, Clay Center, NE
Veterinary Student Poster #22
IDIOPATHIC EOSINOPHILIC ENTEROCOLITIS IN AN ADULT BEEF COW
J. Samuelson, T. Cecere, and W.D. Whittier
Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA

Veterinary Student Poster #23
A TREND TOWARDS DECREASED HEART WEIGHTS IN BROILER CHICKENS WITH SEVERE "WOODEN BREAST"
C.D. Landon and H.J. Barnes
North Carolina State University College of Veterinary Medicine, Raleigh, NC

Veterinary Student Poster #24
UNDERSTANDING THE ROLE OF INFECTIOUS DISEASE IN FELINE RESTRICTIVE CARDIOMYOPATHY
L. McEndaffer, A. Molesan, and K. Kelly
Cornell University College of Veterinary Medicine, Ithaca, NY

Veterinary Student Poster #25
INTRANUCLEAR COCCIDIOSIS IN A CAPTIVE TORTOISE
A. Myers, L. Bryan, C. Burrell, S. Hoppes, S. Lawhon, and A. Rodrigues-Hoffmann
Texas A&M University, College Station, TX

Veterinary Student Poster #26
GENOTYPE DIVERSITY OF INFECTIOUS BRONCHITIS VIRUS IN BROILER TYPE CHICKENS IN MOROCCO
L.R. Tensa1, M.F. Ducatez2, S. Fellahi3,4, and M. El houadfi4
1Oregon State University, Corvallis, OR; 2Interactions Hôtes-Agent Pathogènes, École Nationale Vétérinaire de Toulouse, Toulouse, France; 3,4Unité de Pathologie Aviaire, Département de Pathologie et Santé Publique Vétérinaire, Institut Agronomique et Vétérinaire Hassan II, Rabat, Maroc; 4Laboratoire de Virologie, Microbiologie et Qualité/ETB- Faculté des Sciences et Techniques, Mohammedia, Université Hassan II- Mohammedia, Casablanca, Maroc

Veterinary Student Poster #27
IMMUNOHISTOCHEMICAL CHARACTERIZATION OF VASCULAR REMODELING IN CANINE PULMONARY VENO-OCLUSIVE DISEASE
K. Andre1, A. Jutkowitz2, D. Goldsmith2, A. Cartoceti2, and K. Williams1
1Michigan State University, East Lansing, MI and University of California, Davis, CA

Veterinary Student Poster #28
USE OF A POLYCLONAL RABBIT ANTIBODY AGAINST A SYNTHETICALLY DERIVED PEPTIDE ANTIGEN TO DETECT ODOCOILEUS ADENOVIRUS 1 VIA IMMUNOFLUORESCENCE ASSAY AND IMMUNOHISTOCHEMISTRY
I.M. Barber-Axthelm, K.A. Fischer, R.J. Bildfell, and L. Jin
Oregon State University, Corvallis, OR

Veterinary Student Poster #29
CYTOLOGIC CASE OF HEPATIC MEGALOCYTOSIS IN A HORSE
E.A. Smith, K.L. Zimmerman, D.P. Sponenberg, and W.L. Gilsenan
Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA
Veterinary Student Poster #30
DEVELOPMENT OF AN IMMUNOCYTOCHEMISTRY MAST CELL TUMOR PROFILE
M. Gibas, B. Charles, and E.J. Ehrhart
Colorado State University, Ft. Collins, CO

Veterinary Student Poster #31
PRIMARY INTRACRANIAL HISTIOCYTIC SARCOMA IN A BEAGLE
D.S. Sidhu, K.M. Boes, K. Zimmerman, and T. Pancotto
Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA

Veterinary Student Poster #32
FAMILIAL BILATERAL RENAL NEPHROBLASTOMA IN TWO 3 MONTH OLD PUPPIES: A CASE REPORT
A. Leblanc, G. St-Jean, M-J. Guy, M. Doré, and M. Paquet
Université de Montréal, QC, Canada

Veterinary Student Poster #33
OPTIC NERVE ASTROCYTOMA IN THE EYE OF A DOG
O. Rozov, P. Pineyro, K. Zimmerman, I. Herring, R. Matusow, and J. Rossmeisl
Virginia-Maryland College of Veterinary Medicine, Blacksburg, VA

Veterinary Student Poster #34
PARASITIC BRONCHOPNEUMONIA IN YOUNG HUNTER-KILLED NARWHAL (MONODON MONOCEROS)
J. Duval, S. Black, and P. Duignan
University of Calgary, Calgary, Alberta

Veterinary Student Poster #35
EARLY-ONSET PROGRESSIVE SPINOCEREBELLAR DEGENERATION IN A CAT
M. Rhéaume, G. St-Jean, J. Parent, and P. Hélie
Université de Montréal, QC Canada

Veterinary Student Poster #36
CLINICAL OUTCOME AND HISTOPATHOLOGICAL CHARACTERIZATION OF OCULAR LYMPHOMA IN CATS AND DOGS
A.R. Musciano, R.D. Dubielzig, and A.C. Durham
University of Pennsylvania, Philadelphia, PA and University of Wisconsin, Madison, WI

Veterinary Student Poster #37
ATYPICAL INTERSTITIAL PNEUMONIA IN A HOLSTEIN COW: A HISTOPATHOLOGICAL OBSERVATION
M.E. Putnam and P.D. Sponenberg
Virginia Polytechnic Institute and State University, Blacksburg, VA

Veterinary Student Poster #38
ROCKY MOUNTAIN SPOTTED FEVER: ONE HOUSEHOLD, TWO LAP DOGS
B.S. Grilli1, J. Dickerson2, B.S. Thomas3, E.B. Breitschwerdt3, and A.K. Olivier4
1Mississippi State University, Mississippi State, MS, 2Northside Veterinary Hospital, Cullman, AL, and 3North Carolina State University, Raleigh, NC
Veterinary Student Poster #39
CO-INFECTION WITH FELINE HERPESVIRUS 1 AND CLOSTRIDIUM PILIFORME IN A KITTEN
S. Jolissaint¹, F.R. Carvallo², F.A. Uza³, and A. Alcaraz¹
¹Western University of Health Sciences, Pomona, CA and ²California Animal Health and Food Safety Laboratory, San Bernardino, CA

Veterinary Student Poster #40
INITIAL DEVELOPMENT OF A MULTI-PLEX IMMUNOCYTOCHEMISTRY PROTOCOL FOR DIFFERENTIATION OF EPITHELIUM, MESENCHYMAL TISSUE, AND MACROPHAGES IN CANINE CYTOLOGY SAMPLES
S.E. Leavell¹, M.P. Truelove², A.L. MacNeill², and K.S. Santangelo²
¹Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies and ²Colorado State University, Fort Collins, CO

EXPERIMENTAL DISEASE

Veterinary Student Poster #41
THE EFFECT OF PI3K GAMMA KD AND PI3K DELTA KD ON INTESTINAL LESIONS IN MICE WITH DSS-INDUCED COLITIS
A. Klein¹,², A. Guy³, J. Vegas³, F. Schoetens³, J.E. McDuffie³, W. Fung-Leung³, T. Rao³, B. Zimmerman³, and C. Louden³
¹University of Pennsylvania, Philadelphia, PA ²Janssen Research and Development, Spring House, PA, and ³Janssen Research and Development, La Jolla, CA

Veterinary Student Poster #42
HISTOMORPHOMETRIC COMPARISON OF GRAFT MATERIALS USING A CAPRINE CHRONIC TIBIAL DEFECT MODEL
A. Weinziert¹, F. Tóth¹, G.E. Pluhar¹, G. Muschler², and C.S. Carlson¹
¹University of Minnesota, St. Paul, MN and ²Cleveland Clinic, Cleveland, OH

Veterinary Student Poster #43
COMPARATIVE MRI STUDIES OF THE DEVELOPING DISTAL FEMUR IN HUMANS AND GOATS
M. Roy, M. Nissi, F. Toth, L. Wang, J. Ellermann, and C.S. Carlson University of Minnesota

Veterinary Student Poster #44
HISTOMORPHOMETRIC EVALUATION OF OSTEOCHONDROSIS LESIONS IN PIGLETS
L.R. Harper¹, J. Torrison², M. Wilson², and C.S. Carlson¹
¹College of Veterinary Medicine, St. Paul, MN and ²Zinpro Performance Minerals, Eden Prairie, MN

Veterinary Student Poster #45
IN VITRO INDUCTION OF NETOSIS BY CANINE LIPOPROTEINS
V. Wallace, E. Behling-Kelly, and C. Wong
Cornell University College of Veterinary Medicine, New York, NY
Veterinary Student Poster #46
RACCOON POLYOMAVIRUS DNA AND TUMOR ANTIGEN TRANSCRIPTS ARE STABLE AND ABUNDANT IN NEUROGLIAL TUMORS
T. Brostoff, F. Dela Cruz, Jr., M. Church, K. Woolard, and P. Pesavento
University of California, Davis, CA

Veterinary Student Poster #47
DEVELOPMENT OF A CANINE RESPIRATORY TISSUE EXPLANT CULTURE
K.L. Maltry and E.A. Driskell
University of Illinois, Urbana, IL

Veterinary Student Poster #48
CHARACTERIZATION OF THE HCA2 RECEPTOR IN CATS
O.C. Norris, E.C. Graff, M. Sandey, R.J. Kemppainen, and R.L. Judd
Auburn University College of Veterinary Medicine, Auburn AL

Veterinary Student Poster #49
EVALUATION OF MOUSE PULMONARY HISTOPATHOLOGY SUBSEQUENT TO MULTIPLE ADMINISTRATIONS OF LOW DOSE URETHANE
K. Vail1,2, T.S. Rex1, C. Thompson1,3, and K. Boyd1
1Vanderbilt University School of Medicine, 2Tuskegee University School of Veterinary Medicine, and 3North Carolina State University College of Veterinary Medicine

Veterinary Student Poster #50
RNA KNOCKDOWN OF TISSUE FACTOR IN CANINE HEMANGIOSARCOMA CELLS
L. Witter, C. Leifer, W.M. Yeo, and T. Stokol
Cornell University, Ithaca, NY

Veterinary Student Poster #51
HOST FACTORS CONTRIBUTING TO RESTRICTION OF CANINE INFLUENZA VIRUS INFECTION IN CANINE RESPIRATORY TISSUE EXPLANTS
A. Pohly and E. Driskell
University of Illinois College of Veterinary Medicine

Veterinary Student Poster #52
EVALUATION OF CHRONIC WASTING DISEASE DISSEMINATION IN CATTLE USING REAL TIME QUAKING-INDUCED CONVERSION
C. Siepker, N. Haley, J. Greenlee, and J. Richt
Kansas State University, Manhattan, KS and United States Department of Agriculture, Ames, IA

Veterinary Student Poster #53
ROLE OF OSTEOCHONDROSIS DESSICANS AND COLLAGEN BINDING IN THE DEVELOPMENT OF ENTEROCOCCUS SPONDYLITIS
M.C Harris, M.M. Suyemoto, and L.B. Borst
North Carolina State University College of Veterinary Medicine
Veterinary Student Poster #54
REGULATION OF HOST RESTRICTION FACTOR SAMHD1 BY MICRORNAS
S.L. Myers, E. Buchanan, and K.W. Witwer
Johns Hopkins University School of Medicine, Baltimore, MD

Veterinary Student Poster #55
ANIMAL MODEL OF HUMAN IMMUNODEFICIENCY VIRUS: HISTOLOGIC CHARACTERIZATION OF LYMPHOID ENGRAFTMENT AND VIRAL RNA IN HUMANIZED MICE
W. Sills1, D. Krull1, E. McNeil1, C. Merrill2, R. Peterson2, J. Jeffrey3 and B. Hamilton3
1North Carolina State University, Raleigh, NC, 2Department of Safety Assessment and 3GlaxoSmithKline, Research Triangle Park, NC

Veterinary Student Poster #56
DO SURVIVING HIPPOCAMPAL MOSSY CELLS HYPERTROPHY IN EPILEPTIC DOMOIC ACID-EXPOSED SEA LIONS (ZALOPHUS CALIFORNIANUS)?
C. LeRoy1,2, S. Johnson3, F. Gulland3, and P.S. Buckmaster1
1Stanford University, Stanford, CA, 2Tuskegee University, Tuskegee, AL and 3The Marine Mammal Center, Sausalito, CA

Veterinary Student Poster #57
EXPLORING THE ROLE OF THE DOPAMINE AXIS IN LUNG CANCER DEVELOPMENT
A. Flis1, O. Vidal2, H. Sheppard-Tillman2, and B. Ryan3
1Purdue University College of Veterinary Medicine and 2National Cancer Institute

Veterinary Student Poster #58
ENDOGENOUS BMP ACTIVITY IS REQUIRED FOR BONE MARROW-DERIVED MESENCHYMAL STEM CELL OSTEOGENESIS
M. Martychenko, B. Schuster, S. Durgham, and M. Stewart
University of Illinois

Veterinary Student Poster #59
HISTOLOGY ATLAS OF THE DEVELOPING MOUSE HEPATOBILIARY HEMOLYMPHATIC VASCULAR SYSTEM WITH EMPHASIS ON EMBRYONIC DAYS 11.5-18.5 AND EARLY POSTNATAL DEVELOPMENT
O.M. Swartley1, J.F. Foley2, D.P. Livingston3, D.A. Sabio4, J.M. Cullen1, and S.A. Elmore2
1North Carolina State University College of Veterinary Medicine, Raleigh, NC, 2NTP, NIEHS, NIH, Research Triangle Park, NC, 3USDA and North Carolina State University, Raleigh, NC, and 4Experimental Pathology Laboratories, Inc., Research Triangle Park, NC

Veterinary Student Poster #60
IN VITRO ECHINOCYTOSIS DEVELOPMENT SECONDARY TO RATTLE SNAKE (CROTALUS ATROX) AND COPPERHEAD (AGKISTRODON CONTORTRIX LACTICINCTUS) VENOM IN THE DOG AND THE HORSE
S. Sullivan, R. Allison, J. Taylor, J. Bagwell, P. Yang, and L. Gilliam
Oklahoma State University Center for Veterinary Health Sciences, Stillwater, OK
Famke Aeffner, DVM  
Pathologist, Flagship Biosciences, Inc., Boulder, CO

Michael Aidoo, PhD  
Microbiologist, Centers for Disease Control and Prevention, Atlanta, GA

Peter G. Anderson, DVM, PhD+  
Professor of Pathology, Director of Pathology Undergraduate Education, University of Alabama, Birmingham, AL

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