



ACVP & ASVCP 2014

In partnership with ASIP 

November 8-12, 2014
Atlanta, Georgia

Final Program

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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 Löhr, 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 Burroughs, 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*

2014 ASVCP PROGRAM COMMITTEE

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	9:00 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.cleantheworld.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.*

If Your Presentation Date/Time is...	Then Your Time to Load Your Presentation is...
Sunday, November 9 8:00 a.m.–12:00 noon	Report prior to 7:00 p.m. on Saturday, November 8
Sunday, November 9 1:30 p.m.–5:00 p.m.	Report prior to 10:30 a.m. on Sunday, November 9
Monday, November 10 8:00 a.m.–12:00 noon	Report prior to 6:00 p.m. on Sunday, November 9
Tuesday, November 11 8:00 a.m.–12:00 noon	Report prior to 6:00 p.m. on Monday, November 10
Tuesday, November 11 1:30 p.m.–5:00 p.m.	Report prior to 10:30 a.m. on Tuesday, November 11
Wednesday, November 12 8:00 a.m.–12:00 noon	Report prior to 5:00 p.m. on Tuesday, November 11
Wednesday, November 12 1:00 p.m.–5:00 p.m.	Report prior to 10:30 a.m. on Wednesday, November 12

*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.
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Poster Teardown:

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

COUNCIL RECOGNITION

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*

ACVP COUNCIL

President:

Cory Brayton, DVM, DACLAM*

President-Elect:

Mark Simpson, DVM, PhD*

Secretary/Treasurer:

Michael J. Topper, DVM, PhD*

Secretary/Treasurer-Elect:

Mark R. Ackermann, DVM, PhD*

Immediate Past President:

Maxey Wellman, DVM, PhD*

Councilors:

Anne M. Barger, DVM*

Krista La Perle, DVM, PhD*

David Malarkey, DVM, PhD*

Glenn Cantor, DVM, PhD*

ASVCP EXECUTIVE BOARD

President

Anne Provencher Bolliger, DVM, MSc, DECVCP*

Immediate Past President

Marlyn Whitney, DVM, PhD*

President-Elect

Jeffrey McCartney, DVM, MSc, DABT*

2nd Year Board Member

Linda Vap, DVM*

1st Year Board Member

Tracy Stokol, DVM*

Secretary

Robin Allison, DVM, PhD*

Treasurer

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

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*

Natural Disease

Dalen Agnew, DVM*

Brad Bolon, DVM, PhD*

Heather Shive, DVM*

Alternate Judges:

Patrick A. Caplazi, DVM, PhD*

Oded Foreman, DVM*

Melissa M. Schutten, DVM, PhD*

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. McMahon, 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.

ACVP & ASVCP 2014 • Saturday, November 8

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*

Saturday, November 8, 2014

ACVP & ASVCP 2014 • Saturday, November 8

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)

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ACVP & ASVCP 2014 • Sunday, November 9

7:00 a.m.-5:00 p.m. Imperial Ballroom Registration Desk
Registration

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

7:00 a.m.-7:30 p.m. Imperial Ballroom Foyer
Internet Station
Sponsored by VIN

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

8:00 a.m.-12:00 noon Marquis Ballroom A
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. International Hall
Refreshment Break

10:20 a.m.-11:10 a.m.
Development of Dried Plasmodium Alciparum Samples for Quality Control of Malaria Rapid Diagnostics Tests and as Proficiency Testing Panels
Michael Aidoo, PhD

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

Saturday, November 8, 2014

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

(Co-Chair), K. 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 CYNOMOLGUS 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

K. Janardhan, Q. Brown, H. Jensen, O. Lyght, M.J. Hoenerhoff, D.E. Malarkey, R.C. Sills, R.A. Herbert and A.R. Pandiri

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

Saturday, November 8, 2014

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

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

S. Sisó, B.K. Sturges, A.W. Bollen, P. Marco-Salazar, E.R. Wisner, P.F. Moore, and R.J. Higgins

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.

RECURRENT 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

S.L. Benali, G.E. Lees, M.B. Nabity, A. Aricò, M. Drigo, E. Gallo, M. Giantin, and L. Aresu

Keyword: Urinary System

11:30 a.m.-11:45 a.m.

CO-INFECTION BY HEMOSPORIDIA AND ANAPLASMATACEAE AGENTS IN WILD ORINOCO GOOSE (*Neochen jubata*) IN BRAZIL

M. Luzzi, K. Werther, J. Alves Júnior, E. Sousa, J. Oliveira, K. Sousa, R. Machado, and M. André

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)

Sunday, November 9, 2014

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 ANTIGEN 1.1**
*N. Safra, S.D. Owens, N.C. Pedersen, J. Burges, T. Chew, Z.T.
Wolf, M. Aguilar, C.M. Wade, and D.L. Bannasch*
Keyword: Clinical Pathology

2:00 p.m.-2:15 p.m.
**INCREASED ERYTHROCYTIC OSMOTIC FRAGILITY IN
ANEMIC DOMESTIC SHORTHAIRED 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**
*C.M. Carter, C. Hollinger, D.B. Needle, M. Kiupel, A.G. Wise,
and C.L. Swenson*
Keyword: Cytology

Sunday, November 9, 2014

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
STREPTOMYCES SPP. PYOGRANULOMATOUS DERMATITIS
AND CELLULITIS**
*R.P. Traslavina#, C.M. Reilly, R. Vasireddy, E.M. Samitz, C.T.
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**
J.M. Jankovsky#, S.J. Newman, and K.M. Newkirk
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: Hematopoietic 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**

*H.R. Herd#, L.A. Starkey, M.M. Sula, T.C. Holbrook, E.M.
Johnson, T.A. Snider, and R.J. Panciera*

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*)**

*R. McManamon, C.R. Gregory, P.G. Ciembor, D.A. Pesti, W.S.
Kolar, and B.W. Ritchie*

Keyword: Avian

Sunday, November 9, 2014

4:10 p.m.-4:20 p.m.

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

4:20 p.m.-4:30 p.m.

LOW ATM PROTEIN EXPRESSION IN CANINE MAMMARY GLAND TUMORS

R. Laufer Amorim, T.M.M. Raposo-Ferreira, R.L. Salvador, E.M. Terra, M.T. Costa, S.R. Rogatto, M. Carvalho, and G.D. Cassali

Keyword: Neoplasia

4:30 p.m.-4:40 p.m.

MULTICENTRIC MESENTERIC ANGIOLEIOMYOMA IN A YOUNG GERMAN SHEPHERD DOG

G.R. Hitchener and B.G. Caserto

Keyword: Neoplasia

4:40 p.m.-4:50 p.m.

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

4:50 p.m.-5:00 p.m.

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

#Competitor for the ACVP/AAVLD Diagnostic Pathology Travel Award

1:30 p.m.-5:15 p.m. Marquis Ballroom D

Experimental Disease Focused Scientific Session I

Session Chair: *B.L. Plattner+*

Committee Members: *H. Adissu, M. Gagea, K. Gibson-Corley (Past Chair), L. Janke, S. Monette (Co-Chair), and R. Read*

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. Scarce-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

Sunday, November 9, 2014

1:30 p.m.-5:00 p.m. Marquis Ballroom A

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*)

*G.F. McGregor, V. Misra, L. Warnecke, J.M. Turner, C. Willis, and
T.K. Bollinger*

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*)

*P.M. Gaffney, D.L. Clifford, D.M. Imai, M. Ghassemian, A.N. Chang,
and C.S. Sigurdson*

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. International Hall

REFRESHMENT BREAK — VISIT THE NATURAL DISEASE SCIENTIFIC POSTERS!

3:30 p.m.-3:45 p.m.

TEUTHOLOGY-RECOGNITION OF COMMON PARASITES, PATHOGENS AND SYMBIONTS IN OCTOPI

J.A. Dill and A.C. Camus

Keyword: None of the Above

3:45 p.m.-4:00 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. Fougères, 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+

Sunday, November 9, 2014

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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 noonMarquis 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 noonRoom 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*

Monday, November 10, 2014

ACVP & ASVCP 2014 • Monday, November 10

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. *Room M201*
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**

ACVP & ASVCP 2014 • Tuesday, November 11

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.-5:00 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 noonMarquis Ballroom B
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

8:00 a.m.-12:00 p.m.Marquis Ballroom C
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

Tuesday, November 11, 2014

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

Diagnostic Challenge of Axonal Degeneration in Horses with Locomotion Deficit

*Anibal Guillermo Armien Medianero, DVM, MS, DrVetMed**

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

Important Diseases of the Equine Neonate and Perinatal Period

Grant B. Rezabek, DVM, MPH

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

Questions and Discussion

8:00 a.m.-12:00 p.m. Marquis Ballroom A

Clinical Pathology Focused Scientific Session II

Session Chair: J. McCartney

Committee Members: E. Behling-Kelly, S. Connolly, N. Tripathi, and V. Wong

Platform Presentations

8:00 a.m.-8:15 a.m.

ULTRASTRUCTURAL ABNORMALITIES OF GREYHOUND GREY EOSINOPHILS

N. Berghoff[^], S.M. Kemner, K.M. Young, and M.A. Scott

Keyword: Hematology

8:15 a.m.-8:30 a.m.

VASOACTIVE EICOSANOIDS IN GREYHOUND COMPARED TO NON-GREYHOUND DOGS

M.J. Radin, J. Tucker, L.K. Rogers, M.C. Iazbik, T. Hoepf, C.G. Couto, and C. Kellogg

Keyword: Clinical Chemistry

8:30 a.m.-8:45 a.m.

CONGENITAL MACROTHROMBOCYTOPENIA IN AKITA DOGS

S. Hayakawa[^], E.A. Spangler, P.W. Christopherson, and M.K. Boudreaux

Keyword: Hematology

8:45 a.m.-9:00 a.m.

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

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

Invited Speaker

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

T. Chiller

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

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. Adediji[^], 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

S.K. Bland[^], C.W. Schmiedt, C.A. Brown, M.E. Clark, J. DeLay, and D. Bienze

Keyword: Urinary System

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

ENZYME-LINKED IMMUNOSORBENT ASSAY TO MEASURE SERUM FERRITIN IN TOUCANS

M.J. Meindel[^], P.S. Chavey, G.A. Andrews, M.J. Wilkerson, N. Cernicchiaro, and L.M. Pohlman

Keyword: Clinical Pathology

11:30 a.m.-11:45 a.m.

EVALUATION OF CYTOSPIN 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

W.R. Gow, G.A. Wood, D. Bienze, A.J. Mutsaers, R. Moorehead, and R.D. Wood

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

Tuesday, November 11, 2014

ACVP & ASVCP 2014 • Tuesday, November 11

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, DECVCP

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, DECVCP

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)

12:15 p.m.-1:15 p.m. Marquis Ballroom B
Emerging Disease Focus Seminar II: Ebola Virus
Session Chairs: Jim Rottman, DVM, PhD* and David K.
Meyerholz, DVM, PhD, DACVM*+

1:30 p.m.-5:00 p.m. Marquis Ballroom C
ASVCP Mystery Slide Case Session
Session Chair: Tracy Stokol, BVSc, PhD*

1:30 p.m.-5:00 p.m. Marquis Ballroom A
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. Stieger-Vanegas, and
S.M. Nemanic
Keyword: Neoplasia

1:50 p.m.-2:00 p.m.
**BLUETONGUE IN SOUTH AMERICAN CAMELIDS FROM
CENTRAL WASHINGTON**
J.B. Stanton, A.J. Allen, L.M. Fry, M.G. Ackerman, D.S.
Bradway, and J.F. Evermann
Keyword: Infectious Disease

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

Tuesday, November 11, 2014

2:20 p.m.-2:30 p.m.

INVESTIGATION OF SUSPECTED IMPORTED JERKY TREAT MORTALITIES

D.S. Rotstein, R. Reimschuessel, O. Ceric, S.M. Nemser, J. Guag, A. Tkachenko, J. Queen, and L.A. Palmer

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.

FIBROUS 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

R.E. Ruby, E.A. Barrell, G.A. Perkins, and T.L. Southard

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

D. Agnew, C. Stretton, S. Bolin, T. Mullane, B. Pfluger, M. Hint, E. Severt, S. Nordstrom, M. Bolton, K. Fenton, S. Hall, T. Hill, A. Gaudet, T. Hartshorn, and D. Grooms

Keyword: General Topic

3:40 p.m.-3:50 p.m.

VASCULAR HAMARTOMA IN THE BRAIN OF A COW

T. Veiga-Parga, M. Nobrega-Lee, and S.J. Newman

Keyword: Nervous System

3:50 p.m.-4:00 p.m.

MASSIVE HEMORRHAGES ASSOCIATED WITH RODENTICIDE ANTICOAGULANTS IN RACE HORSES

F.R. Carvallo, R. Poppenga, H. Kinde, A.C. Nyaoke, R.M. Arthur, and F.A. Uzal

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)**

*S. Choudhary, G. Andrews, C. Ganta, L.M. Pohlman, D. Eshar,
and C.T. Higbie*

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

*A.L. Perry, J. Diaz Delgado, K. Eden, A.M. Arenas-Gamboa, J.
Mansell, and B.F. Porter*

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

1:30 p.m.-5:00 p.m.Room M103

Experimental Disease Focused Scientific Session II

Session Chair: B.L. Plattner+

Committee Members: *H. Adissu, M. Gagea, K. Gibson-Corley
(Past Chair), L. Janke, S. Monette (Co-Chair), and R. Read*

Platform Presentations

1:30 p.m.-2:30 p.m.

Invited Speaker

**DEVELOPMENTAL PATHWAYS IN LIVER INJURY AND
TUMORIGENESIS: A WNT-BETA-CATENIN SIGNALING
PERSPECTIVE**

P. Monga+

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

**THE NFKB PATHWAY IS AN ESSENTIAL COMPONENT
FOR LINEAGE COMMITMENT IN THE PBCRE4;PTENFL/
FL;TRP53FL/FL PROSTATE CANCER MOUSE MODEL**

H.S. Tillman, J.J. Yin, Y-N. Liu, P. Hynes, and K. Kelly

Keyword: Neoplasia

Tuesday, November 11, 2014

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**

*D.K. Meyerholz, J.C. Sieren, X. Wang, B. Davis, J.D. Newell Jr., E.
Hammond, J. Rohret, F. Rohret, J. Struzynski, J.A. Goeken, P.W.
Naumann, M.R. Leidinger, J. Hagen, R. VanRheeden, B.W. Darbro,
D.E. Quelle, and C.S. Rogers*

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**

*J. Stanley, K. Regan, A. LaRochelle, B.G. Zani, P.M. Markham, A.R.
Tzafiriri, L. Bailey, A. Spognardi, G.A. Kopia, and E.R. Edelman*

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.

Tuesday, November 11, 2014

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 noonMarquis Ballroom Foyer
Young Investigator Award Poster Session

8:00 a.m.-12:00 noonMarquis Ballroom A
Concurrent Session V: Pathogenesis of Osteoarthritis
*Session Chair: Cathy S. Carlson, DVM, PhD**
*Session Co-Chair: Elizabeth Uhl, DVM, PhD**

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.....Marquis Ballroom Foyer
Refreshment Break

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, DACVSMR

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

8:00 a.m.-12:00 noonMarquis Ballroom B
Mini-Symposium: Iron Biology and Anemia
Session Chair: Tara Arvedson, PhD
Session Co-Chair: Elizabetha Nemeth, PhD

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 & 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.
Chemoimmunotherapy: 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

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

Wednesday, November 12, 2014

[illegible]

[illegible]

ACVP & ASVCP 2014 • Focused Scientific Posters

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.
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Poster Teardown:

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

CLINICAL PATHOLOGY FOCUSED SCIENTIFIC POSTER PRESENTATIONS

C-1

BREED AND AGE RELATED DIFFERENCES IN CANINE MAMMARY TUMOR DEVELOPMENT

H.W. Kim, H.Y. Lim, J.I. Shin, J.H. Ju, and J.H. Sur

Keyword: Neoplasia

C-3

IMMUNOHISTOCHEMICAL ANALYSIS OF HYPOXIA INDUCIBLE FACTOR-1 EXPRESSION IN ASSOCIATION WITH CHARACTERISTICS OF MALIGNANT CANINE MAMMARY TUMORS

J.I. Shin, H.Y. Lim, H.W. Kim, J.H. Ju, and J.H. Sur

Keyword: Neoplasia

C-4

STABILITY OF CANINE CRYOPRECIPITATE IN TWO DIFFERENT FREEZING PROTOCOLS

R.K. Takahira, C.Z. Garcia, T.C. Trentin, D.S. Gonçalves, R.B. Tossato, and R.S. Lopes

Keyword: Hematology

C-5

A MODIFIED METHOD TO EVALUATE "DELTA-WBC" 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

N.J. Tagliari, M.G. Ceregatti, C.R.S. Mattoso, J. Volpato, M.M. Coelho, S.L. Beier, A. Costa, L.A. Yonezawa, and M.E. Saito

Keyword: Clinical Pathology

C-12

HEMATOLOGICAL AND HEMOSTATIC ABNORMALITIES OF PARANEOPLASTIC ORIGIN IN CANINE MAMMARY CANCER

N.C.B. Duda, S.F. Valle, J.P. Matheus, N.C. Angeli, N.N. Júnior, and F.H.D. González

Keyword: Clinical Pathology

C-13

HEMATOLOGICAL AND LIVER EVALUATION OF SHEEP UNDER TREATMENT WITH NEEM CAKE (*AZADIRACHTA INDICA*)

M.M. Coelho, C.P. Cardoso, V. Avilla, L.A. Yonezawa, C.R.S. Mattoso, J. Volpato, N.C. Weinert, R.R. Antunes, C.S. Dias, and M.E. Saito

Keyword: Clinical Pathology

C-14

OCCURRENCE OF HEPATOZOON SPP. INFECTION IN DOMESTIC CATS FROM BRASILIA, BRAZIL

N.S. Zanani, M.A. Teixeira, M.C. Scaloni, L.R. Camargos, E.F.G. Barbosa, J.L. Reis Jr., C.S. Martins, and G.R. Paludo

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. Körner, and B. Altmann

Keyword: Hematology

C-17

SOME HEMATOLOGICAL AND BIOCHEMICAL PARAMETERS OF AMAZON FRESHWATER TURTLE (*PODOCNEMIS EXPANSA*) IN BRASILIA ZOO, DISTRITO FEDERAL, BRAZIL

L.M.B. Pessoa, M.A. Abraham, F.T. Carneiro, M.A. Lima, T.F. Da Silva, W.A.C. Da Silva, M.G.M. Lima, M.C. Scaloni, N.S. Zanani, R.V. Monteiro, A.G. De Brito, and G.R. Paludo

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

G.R. Hitchener^A, K.R. Mullen, T.J. Divers, and G.E. Duhamel

Keyword: Urinary System

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 RENAL AMYLOIDOSIS 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

R.P. Traslavina[^], C.M. Reilly, R. Vasireddy, E.M. Samitz, C.T. Stepnik, C. Outerbridge, V.K. Affolter, B.A. Byrne, L.J. Lowenstine, S.D. White, and B. Murphy

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

J.M. Jankovsky[^], S.J. Newman, and K.M. Newkirk

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 MATURATION 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 MYCOTOXICOSIS

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

K. Casey[^], K. Winger, K. Vernau, P. Dickinson, R. Higgins, and S. Siso

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

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, I. Langohr, and F. Del Piero

Keyword: Nervous System

D-22

FELINE PLASMA CELL PODODERMATITIS IN SIBLINGS

J.A. Conway[^], E.D. Epperson, W.F. Craft, W.D. Gram, P.E. Ginn, and C. Adams

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**

*S.K.H. Sousa[^], S.P. Cardoso, L. Sonne, F.J.F. Sant'Ana, C.S.L.
Barros, and J.L. Reis Jr.*

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

T. Veiga-Parga[^], M. Nobrega-Lee, and S.J. Newman

Keyword: Nervous System

D-33

**A CASE OF LEUKEMIA OF UNKNOWN ORIGIN WITH ALP
POSITIVE CELLS AND SEVERE HYPERPHOSPHATEMIA**

R. Froment and C. Bédard

Keyword: Clinical Pathology

D-34

**ADRENAL LESIONS OF LEISHMANIASIS IN DOGS FROM SÃO
PAULO—BRAZIL**

*J.M. Guerra, N.C.C.A. Fernandes, L.M. Kimura, N.K. Shirata,
J.A. Magno, J.E.R. Barbosa, H.H. Taniguchi, R.M. Hiramoto, S.
Nonogaki, and J.E. Tolezano*

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-Pelaez,
and I.C. Rangel-Rodriguez*

Keyword: Neoplasia

D-38

BIVENTRICULAR AND BIATRIAL DILATION, PULMONARY ARTERY DIROFILARIASIS, AND FOCAL ACUTE MYOCARDIAL INFARCTION IN A BOXER

M.T. O'Brien, L.K. Bryan, R. Winter, F.J. Clubb, and A. Rodrigues-Hoffmann

Keyword: Cardiovascular

D-39

CUTANEOUS MELANOMA AND PHEOCHROMOCYTOMA IN AN AFRICAN GREEN MONKEY (*CHLOROCEBUS AETHIOPS SABAEUS*)

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 LEPTOMENINGEAL OLIGODENDROGLIOMATOSIS IN A STAFFORDSHIRE BULL TERRIER DOG

F. Serra, M. Lobacz, G. Hammond, A. Oevermann, and A. Haley

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

J.N.S.N. Tran, R.E. Ruby, M. Slanina, G.E. Duhamel, and T. Southard

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 SABAEUS*)

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**

G.R. Blume, C.S. Martins, L.B. Matter, A.P.C. Vargas, L.B. Oliveira, J.L. Reis Jr., and F.J.F. Sant'Ana

Keyword: Infectious Disease

D-48

**SCHISTOSOME INFECTION AS A CAUSE OF HEMOMELASMA
ILEI IN A HORSE**

J.A. Conway, W.F. Craft, S.R. Roff, H.S. Walden, K.F. Snowden, J.Y. Rodriguez, D.C. Dymock, and R.J. MacKay

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**

W.A.C. Da Silva, M.A. Abraham, M.A. Lima, F.T. Carneiro, S.P. Mesquita, M.C. Scalon, M.S. Nascente, G.B. Pereira-Neto, N. Nitz, and G.R. Paludo

Keyword: Infectious Disease

D-54

**A CASE STUDY OF DISSEMINATED PHAEOHYPHOMYCOSIS
IN CAPTIVE MUDPUPIES (*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

I.A. Fischer-McMorrow, I. Sidor, S.R. Cramer, J. Arruda, M. Niemeyer, and D.R. Ketten

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

K. Kelly, K. Kasperbauer, K. Sakamoto, M. Camus, J. Mayer, S. Divers, and P. Cazzini

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

OCIPITAL 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 (*TRICHECHUS MANATUS LATIROSTRIS*)

D.S. Rotstein, M. deWit, A.J. Garrett, K.J. Rigney, B.L. Bassett, A.R. Howell, A.L. Panike, and C.R. White

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

L.B. Oliveira, J. Nobrega, R. Laufer-Amorim, F.J.F. Sant'Ana, and J.L. Reis Jr.

Keyword: Neoplasia

D-71

BOVINE ABORTIONS, OPHTHALMITIS AND POLYARTHRITIS ASSOCIATED WITH UREAPLASMA SPP. IN NORTHEASTERN UNITED STATES

R.E. Ruby, T.L. Southard, J. Tran, P.D. Virkler, and G.E. Duhamel

Keyword: Bone and Joint

^Competitor for the ACVP Young Investigator Award
Abstracts will be published on the website at www.acvp.org.

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)-AS- SOCIATED 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

*A. Larios[^], A. Van Geelen, L. Detalle, M.S. Davis, T. Stohr, J.M.
Gallup, and M.R. Ackermann*

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

B. Bawa, B. Zhou, J. Ma, Q. Liu, W. Wang, M. Duff, J. Lee, Y. Lang, D.E. Wentworth, J.A. Richt, and W. Ma

Keyword: Respiratory System

E-14

PATHOLOGICAL AND GENETIC ASPECTS OF SCRAPIE IN GOATS EXPERIMENTALLY AND NATURALLY EXPOSED TO AN OVINE SCRAPIE ISOLATE

C. Maestrale, M.G. Cancedda, 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

L.M. Zadrozny[^], E.B. Neufeld, B.M. Lucotte, P.S. Connelly, Z. Yu, L. Dao, L. Hsu, and R.S. Balaban

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

D.K. Meyerholz, D.A. Stoltz, N.D. Gansemer, S.E. Ernst, D.P. Cook, E.N. LeClair, C.K. Barker, M.R. Leidinger, K.N. Gibson-Corley, P.H. Karp, M.J. Welsh, and P.B. McCray Jr.

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. Gril, 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

O. Garcia-Nicolas, R.S. Rosales, F.J. Pallares, D. Risco, S.P. Graham, J.P. Frossard, and F.J. Salguero

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. Lamoike, 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

C.E. Hoover[^], N.T. Buhrdorf, N.D. Denkers, D.M. Henderson, C. Soto, C.K. Mathiason, M.D. Zabel, and E.A. Hoover

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. Shanmukhappa

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

E.W. Howerth, J.D. Gabbard, C. Jones, S.M. Tompkins, D.E. Stallknecht, A. Danner, Z. Kocer, S. Krauss, and R. Webster

Keyword: Infectious Disease

E-42

PATHOLOGICAL AND PHYLOGENETIC CHARACTERIZATION OF NEWCASTLE DISEASE VIRUSES FROM ISRAEL AND PAKISTAN

P. Pandarangga, L. Susta, V.M.B.D. Moura, C.C Brown, P.J. Miller, S. Cardenas-Garcia, and C.L. Alfonso

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

S. Naidu, U. Saini, A. ElNaggar, H. Bid, R. Wanner, E. Sudhaker, A. Suarez, N. Wakamatsu, J. Hays, P. Houghton, D. Cohn, and K. Selvendiran

Keyword: Toxicologic Pathology

E-46

THE EFFECT OF AMBLYOMMA MACULATUM FEEDING ON RICKETTSIA PARKERI INFECTION IN RHESUS MACAQUES

K.H. Banajee^, M.E. Embers, I.M. Langohr, L.A. Doyle, and K.R. Macaluso

Keyword: Infectious Disease

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E-47

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

E-48

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

E-49

TRANSCRANIAL ADENOSINE RECEPTOR AGONISM IS NEUROPROTECTIVE FOLLOWING MILD TRAUMATIC BRAIN INJURY

K.N. Corps[^] and D.B. McGavern

Keyword: Nervous System

E-50

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

The ACVP abstracts will be published on the website at www.acvp.org.

INDUSTRIAL AND TOXICOLOGIC PATHOLOGY FOCUSED SCIENTIFIC POSTER PRESENTATIONS

T-1

DETECTION OF MURINE PANCREATIC INTRAEPITHELIAL NEOPLASIA UTILIZING TISSUE IMAGE ANALYSIS TOOLS

F. Aeffer, M. Peljto, M.O. Ports, T. Hagemann, N.T. Martin, and G.D. Young

Keyword: Liver and Pancreas

T-2

DIAGNOSTIC APPROACH TO MALICIOUS CARBOFURAN POISONING IN THE ABSENCE OF GROSS AND HISTOLOGIC LESIONS

K. Kim[@], P. Jowett, and F. Del Piero

Keyword: Toxicologic Pathology

T-3

EVALUATION OF POTENTIAL CHANGE LEADING TO VASCULAR PROLIFERATION OF MESENTERIC LYMPH NODE WITH OR WITHOUT VASCULAR TUMORS IN CARCINOGENICITY STUDY IN SPRAGUE-DAWLEY RATS

M. Sasaki, T. Sakurai, A. Ishii, K. Matsue, Y. Nakanishi, S. Tsutsumi, and Y. Sato

Keyword: Toxicologic Pathology

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 CYNOMOLGUS MONKEY

Z. Radi and M. Evans

Keyword: Primates

T-8

SILENCING OF KV9.3 POTASSIUM CHANNEL INHIBITS PROLIFERATION OF COLON AND LUNG CARCINOMA CELLS

J-H. Lee, B-H. Lee, S-Y. Lee, and D-Y. Kim

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

@Competitor for the STP Student Poster Award

The ACVP abstracts will be published on the website at www.acvp.org.

NATURAL DISEASE FOCUSED SCIENTIFIC POSTER PRESENTATIONS

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 PARELAPOSTRONGYLUS 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

L.M. Fry[^], D.P. Knowles, D.D. Nelson, G.A. Scoles, C.L. Olds, T.K. Connelly, W.I. Morrison, and W.C. Brown

Keyword: Infectious Disease

N-8

EVIDENCE OF EPITHELIAL-MESENCHYMAL TRANSITION IN NEOPLASTIC PROCESS OF CANINE PROSTATE

R. Laufer-Amorim, C.E. Fonseca-Alves, P.E. Kobayashi, and L.G. Rivera Calderon

Keyword: Neoplasia

N-9

FOOTPAD HYPERKERATOSIS IN A CAT: A DISORDER OF CORNIFICATION & THE HUMAN PALMOPLANTAR KERATODERMAS

K.L. Wahl, J. Mansell, J. Evans, and A. Rodrigues-Hoffmann

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 CYTAUXZOOM 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. Seguel¹, 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. Weeden¹, 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. Chen¹ 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. Harbison¹, R.D. Lipman, and R.T. Bronson

Keyword: None of the Above

N-18

SURVEY OF ANGIOSTRONGYLUS CANTONENSIS IN FLORIDA

S.R. Roff, J. Stern, K. Hayes, J. Slapcinsky, A. McIntosh, J.A. Conway, and H.S. Walden

Keyword: Infectious Disease

N-19

TARGETING OF THE MAPK AND AKT/MTOR PATHWAYS SHOWS THERAPEUTIC PROMISE IN CANINE MALIGNANT MELANOMA

H.T. Michael[^], B-R. Wei, S.B. Hoover, J.E. Dwyer, S.M. Hewitt, C.H. Halsey, G. Merlino, and R.M. Simpson

Keyword: Neoplasia

N-20

THE ROLE OF THE IMMUNE RESPONSE IN THE PATHOGENESIS OF CONTAGIOUS BOVINE PLEUROPNEUMONIA: IMMUNOHISTOCHEMICAL AND CONFOCAL LASER SCANNING INVESTIGATIONS

G. Marruchella, A.R. D'Angelo, F. Sacchini, G. Mukka, A. Pini, and M. Scacchia

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 Díaz

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*)

P.M. Gaffney[^], D.L. Clifford, D.M. Imai, M. Ghassemian, A.N. Chang, and C.S. Sigurdson

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*)

M.E. Shoemaker, M.A. Coutinho da Silva, M.M. Schook, R.B. Garabed, and B.A. Wolfe

Keyword: Wildlife

[^]Competitor for the ACVP Young Investigator Award

[illegible]

ACVP & ASVCP 2014 • Veterinary Student Posters

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.
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Poster Teardown:

Tuesday, November 11	3:30 p.m.–4:30 p.m.
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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 TRISSYLLEPSIS*) 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 LUPI-INDUCED ESOPHAGITIS

L. Robinson, M. Arauz, A. Peda, S. Jones, W. du Plessis, and O. Illanes

Ross University School of Veterinary Medicine, St. Kitts, West Indies

Veterinary Student Poster #7

CRYPTOCOCCUSS 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

J.K. Wong¹, L. Boyce², E.J. Elsmo¹, T.L. Jenkins¹, E.W. Howerth¹, A. Phillips¹, S. Sánchez¹, and K. Sakamoto¹

¹University of Georgia, Athens, GA and ²Lance Animal Hospital, Gainesville, GA

Veterinary Student Poster #11

INFILTRATIVE 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. Caswell¹

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

S.D. Kim, P. Baker, J. DeLay, and R.D. Wood
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

S. Niesz-Ent, O. Illanes, E. Soto, A. Verma, F. Sithole, and C. Fuentealba.

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

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LEFT VENTRICULAR HYPOPLASIA AND DOUBLE OUTLET RIGHT VENTRICLE IN A CALF

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²University of Nebraska, Clay Center, NE

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IDIOPATHIC EOSINOPHILIC ENTEROCOLITIS IN AN ADULT BEEF COW

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A TREND TOWARDS DECREASED HEART WEIGHTS IN BROILER CHICKENS WITH SEVERE "WOODEN BREAST"

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UNDERSTANDING THE ROLE OF INFECTIOUS DISEASE IN FELINE RESTRICTIVE CARDIOMYOPATHY

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INTRANUCLEAR COCCIDIOSIS IN A CAPTIVE TORTOISE

*A. Myers, L. Bryan, C. Burrell, S. Hoppes, S. Lawhon, and A. Rodrigues-Hoffmann
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GENOTYPE DIVERSITY OF INFECTIOUS BRONCHITIS VIRUS IN BROILER TYPE CHICKENS IN MOROCCO

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IMMUNOHISTOCHEMICAL CHARACTERIZATION OF VASCULAR REMODELING IN CANINE PULMONARY VENO-OCCLUSIVE DISEASE

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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
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CYTOLOGIC CASE OF HEPATIC MEGALOCYTOSIS IN A HORSE

*E.A. Smith, K.L. Zimmerman, D.P. Sponenberg, and W.L. Gilseman
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DEVELOPMENT OF AN IMMUNOCYTOCHEMISTRY MAST CELL TUMOR PROFILE

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PRIMARY INTRACRANIAL HISTIOCYTIC SARCOMA IN A BEAGLE

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FAMILIAL BILATERAL RENAL NEPHROBLASTOMA IN TWO 3 MONTH OLD PUPPIES: A CASE REPORT

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OPTIC NERVE ASTROCYTOMA IN THE EYE OF A DOG

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PARASITIC BRONCHOPNEUMONIA IN YOUNG HUNTER-KILLED NARWHAL (*MONODON MONOCEROS*)

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EARLY-ONSET PROGRESSIVE SPINOCEREBELLAR DEGENERATION IN A CAT

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CLINICAL OUTCOME AND HISTOPATHOLOGICAL CHARACTERIZATION OF OCULAR LYMPHOMA IN CATS AND DOGS

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ATYPICAL INTERSTITIAL PNEUMONIA IN A HOLSTEIN COW: A HISTOPATHOLOGICAL OBSERVATION

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ROCKY MOUNTAIN SPOTTED FEVER: ONE HOUSEHOLD, TWO LAP DOGS

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CO-INFECTION WITH FELINE HERPESVIRUS 1 AND CLOSTRIDIUM PILIFORME IN A KITTEN

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INITIAL DEVELOPMENT OF A MULTI-PLEX IMMUNOCYTOCHEMISTRY PROTOCOL FOR DIFFERENTIATION OF EPITHELIUM, MESENCHYMAL TISSUE, AND MACROPHAGES IN CANINE CYTOLOGY SAMPLES

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EXPERIMENTAL DISEASE

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THE EFFECT OF PI3K GAMMA KD AND PI3K DELTA KD ON INTESTINAL LESIONS IN MICE WITH DSS-INDUCED COLITIS

A. Klein^{1,2}, A. Guy³, J. Vegas³, F. Schoetens³, J.E. McDuffie³, W. Fung-Leung³, T. Rao³, B. Zimmerman², and C. Loudon²

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HISTOMORPHOMETRIC COMPARISON OF GRAFT MATERIALS USING A CAPRINE CHRONIC TIBIAL DEFECT MODEL

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COMPARATIVE MRI STUDIES OF THE DEVELOPING DISTAL FEMUR IN HUMANS AND GOATS

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HISTOMORPHOMETRIC EVALUATION OF OSTEOCHONDROSIS LESIONS IN PIGLETS

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IN VITRO INDUCTION OF NETOSIS BY CANINE LIPOPROTEINS

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RACCOON POLYOMAVIRUS DNA AND TUMOR ANTIGEN TRANSCRIPTS ARE STABLE AND ABUNDANT IN NEUROGLIAL TUMORS

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DEVELOPMENT OF A CANINE RESPIRATORY TISSUE EXPLANT CULTURE

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CHARACTERIZATION OF THE HCA2 RECEPTOR IN CATS

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Veterinary Student Poster #49

EVALUATION OF MOUSE PULMONARY HISTOPATHOLOGY SUBSEQUENT TO MULTIPLE ADMINISTRATIONS OF LOW DOSE URETHANE

K. Vail^{1,2}, T.S. Rex¹, C. Thompson^{1,3}, and K. Boyd¹
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RNA KNOCKDOWN OF TISSUE FACTOR IN CANINE HEMANGIOSARCOMA CELLS

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HOST FACTORS CONTRIBUTING TO RESTRICTION OF CANINE INFLUENZA VIRUS INFECTION IN CANINE RESPIRATORY TISSUE EXPLANTS

A. Pohly and E. Driskell
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Veterinary Student Poster #52

EVALUATION OF CHRONIC WASTING DISEASE DISSEMINATION IN CATTLE USING REAL TIME QUAKING-INDUCED CONVERSION

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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
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REGULATION OF HOST RESTRICTION FACTOR SAMHD1 BY MICRORNAS

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AN ANIMAL MODEL OF HUMAN IMMUNODEFICIENCY VIRUS: HISTOLOGIC CHARACTERIZATION OF LYMPHOID ENGRAFTMENT AND VIRAL RNA IN HUMANIZED MICE

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Veterinary Student Poster #56

DO SURVIVING HIPPOCAMPAL MOSSY CELLS HYPERTROPHY IN EPILEPTIC DOMOIC ACID-EXPOSED SEA LIONS (*ZALOPHUS CALIFORNIANUS*)?

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Veterinary Student Poster #57

EXPLORING THE ROLE OF THE DOPAMINE AXIS IN LUNG CANCER DEVELOPMENT

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ENDOGENOUS BMP ACTIVITY IS REQUIRED FOR BONE MARROW-DERIVED MESENCHYMAL STEM CELL OSTEOGENESIS

M. Martychenko, B. Schuster, S. Durgham, and M. Stewart
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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

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Veterinary Student Poster #60

IN VITRO ECHINOCYTOSIS DEVELOPMENT SECONDARY TO RATTLESNAKE (*CROTALUS ATROX*) AND COPPERHEAD (*AGKISTRODON CONTORTRIX LACTICINCTUS*) VENOM IN THE DOG AND THE HORSE

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Exhibits are located in the International Hall, two floors below the lobby. 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.

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