ACVP & ASVCP
2013 Concurrent Annual Meeting
November 16-20
Le Westin Hotel and
Palais des congrès de Montréal
Montréal, Québec, Canada

Final Program

Montréal
ACVP & ASVCP 2013 • Montréal, QC

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• Pfizer Global Research & Development

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STUDENT CHAPTER TRAVEL AWARDS

ACVP thanks the following for providing Student Chapter Travel Awards:

• Michael and Kimberly Topper
• Novartis

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• Olympus
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(as of October 1, 2013)

ASVCP 2013 SPONSORS

• Amgen
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• A special thank you to the authors of *Veterinary Hematology: Atlas of Common Domestic and Non-Domestic Species (2nd Edition)*, published by Wiley Blackwell
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INTRODUCTION

Welcome to Montreal and the 2013 Annual Meeting of the American College of Veterinary Pathologists (ACVP) and the American Society for Veterinary Clinical Pathology (ASVCP)! We appreciate your attendance and are confident you will enjoy this year’s outstanding program. In the following paragraphs you will find a day to day summary of the meeting events. There are a variety of session topics that cater to diagnostic, experimental, industrial or research pathology. Regardless of your background, there is something for everyone at this year’s meeting.

• **Saturday, November 16.** Get a head start and jump in with one of the interesting pre-meeting workshops. This year’s C.L. Davis workshop is headlined by Brian Wilcock and will cover a host of diagnostic pathology topics from his vast experience including eye, dermatology and GI biopsies of the dog and cat. The primate pathology group will again host an all day workshop on malaria in primates. The ASVCP program will focus on “writing for publication in veterinary medicine” and will be headed by Drs. Mary Christopher and Karen Young. The first day wraps up with the ASVCP Teaching Clinical Pathology session (6:00 p.m.-8:00 p.m.) and of course the Opening Reception (7:00 p.m.).

• **Sunday, November 17.** Sunday is the first day of the general sessions. The theme for this year’s ASVCP Education Symposium will be “It’s Elementary: Evidence-Based Cytology”. The Career Development Symposium (AM) is titled “I was not Trained for This!” and will explore the transition into new roles outside of bench pathology. The day is packed with focused scientific sessions (natural disease, experimental disease, diagnostic pathology, clinical pathology and industrial/toxicologic pathology) in the morning and afternoon. Invited speakers in the morning will discuss topics ranging from mouse models to Beluga whales, depending on the session. The morning sessions also include a mini-symposium entitled “Pathology and Toxicology of Alternative Therapeutics (stem cells, oligos, and nanos)” which will explore the side effects of new therapeutic treatments. The cast of international speakers will cover alternative medications beyond the little white pills typical of western medicine. In a first for the ACVP, from 11:00 a.m. to 12:00 noon this session will be summarized in French, for the benefit of our Quebec hosts. From 12:15 p.m. to 1:15 p.m., the Emerging Disease Session will focus on Schmallenberg virus, an emerging teratogenic vector borne viral disease of ruminants.

Sunday afternoon will host the first of three ASVCP Laboratory Professionals sessions; this one focusing on hematology and reticulocytes. Afternoon focused scientific sessions will include topics ranging from malignant hematopoiesis, vasculogenomics, reproductive toxicologic pathology, bovine pancytopenia and canine respiratory disease. In the evening, the ASVCP Business Meeting (4:30 p.m.) and the ACVP Town Hall meeting (6:00 p.m.) will finish just in time for attendees to make it to the Mystery Slide Review: Neuropathology beginning at 7:30 p.m.
Monday, November 18. Monday morning contains the plenary session focusing on “Epigenetics”. The session, chaired by Marshall Scicchitano, will explore the regulation of genomic processes (gene expression or cellular phenotype) through means other than genetic sequence, such as via DNA methylation or chromosomal histone modification and its roles in disease and development. This in-depth introduction of the epigenetics topic is at the forefront of science and should be extremely valuable to pathologists involved in a wide range of scientific and clinical disciplines. The second ASVCP Laboratory Professionals session, chaired by Nicole Rosen, will run concurrently. Of course, back by popular demand, Monday afternoon is open for participants to enjoy all of the shopping, dining and sight-seeing in the fabulous and beautiful Montreal area! However, be sure to make it back in time for either the Mystery Slide Seminar: Cattle Diseases or the ASVCP Clinical Chemistry Review Session, both beginning at 7:00 p.m., as well as the many receptions that occur on Monday evening.

Tuesday, November 19. Tuesday morning will host the first two concurrent sessions. “Mitochondria in Health and Disease” is chaired by Dr. Kevin French and covers that tiny but critically important-to-life subcellular organelle. The session will explore the roles of mitochondria in veterinary and human disease as well as a target for drug-related injury. The second session focuses on emerging and important diseases of cattle, and is geared predominately for the diagnostic pathologist; however, there will be topics of interest for virtually anyone involved in infectious disease research. The focused scientific sessions will wrap-up including the education focused group and clinical pathology in the morning, and diagnostic pathology, experimental disease and industrial and toxicological pathology in the afternoon. The afternoon will also see the ever popular ASVCP Case Review Session. Do not forget to plan for the Awards and Recognition Event (5:15 p.m.) and the Presidential Reception (7:00 p.m.).

Wednesday, November 20. Last, but surely not least and guaranteed to please: Wednesday morning is highlighted by three outstanding concurrent sessions. Michael Leach chairs a session on the Microbiome, which will explain “How the Billions of Organisms that Co-Inhabit Animals and Humans Maintain Health and Cause Disease.” This session will particularly look at the microflora in veterinary disease. In addition, there will also be a mini-symposium covering “Osteochondrosis” in a variety of species (including humans), hosted by Dr. Cathy Carlson. Finally, in a session ripped from today’s headlines, Dr. Mac Law will chair a session entitled “Mini-Symposium: Gulf of Mexico Deepwater Horizon Oil Spill: Response, Research and Perspectives”. This session will look at the long term and unforeseen effects and challenges from the BP oil spill. Post-meeting workshops will begin at 1:00 p.m. and include a presentation on Practical Morphometry and Stereology, hosted by Visiopharm. This session includes hands-on training and is a “must” for pathologists who are beginning quantitative pathologic interpretation research. Running concurrently in the afternoon will be a workshop entitled, “Comparative Pathology Toolbox: Tools for Meaningful Assessment of Animal Models” and of particular interest for those in experimental pathology and performing animal model work.
Although continuing education is always paramount, make sure to take time to visit Montreal, renew relationships with old friends and colleagues, and make plans to see them again at next year’s ACVP meeting in Atlanta (2014).

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 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, Focused Scientific Session Committee, individual session chairs, ACVP Council and executive staff that have teamed together to present this meeting to you. Lastly, we would like to thank the membership of the ACVP and ASVCP for their attendance and participation, without which this meeting would not be possible.

Ken Frazier, DVM, PhD*
2013 ACVP Annual Meeting Program Chair

Jennifer A. Neel, DVM*
2013 ASVCP Annual Meeting Program Chair
2013 ACVP EDUCATION COMMITTEE

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James B. Rottman, DVM, PhD*

Program Chair
Kendall S. Frazier, DVM, PhD*

Education Committee
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Marie-Odile Benoit-Biancamano, DVM, MSc, PhD, DECVP*
Kelli L. Boyd, DVM, PhD*
Erin M. Brannick, DVM, MS*
Lauri J. Diehl, DVM, PhD*
Ingeborg Langohr, DVM, PhD*
David K. Meyerholz, DVM, PhD*
Jennifer A. Neel, DVM*
Shelley J. Newman, DVM, DVS*
Jerry W. Ritchey, DVM, PhD*
Mark Simpson, DVM, PhD*

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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, DVS*

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

Clinical Pathology
Anne Provencher Bolliger, DVM, MSc, DECVP, FIATP* (Chair)
Carolyn N. Grimes, DVM*
Dennis B. DeNicola, DVM, PhD*
Charles E. Wiedmeyer, DVM, PhD*
Angela Wilcox, BVSc, MS, DABT*

Diagnostic Pathology
Barbara Lewis, DVM* (Chair)
Akinyi C. Nyaoke, DVM, MSc* (Co-Chair)
Stephen A. Raverty, DVM, PhD*
David S. Rotstein, DVM, MPVM*
Francisco A. Uzal, DVM, PhD* (Past Chair)
Education
Amy L. Warren, BSc, BVSc* (Chair)
Ana Alcaraz, DVM, PhD* (Past Chair)
Thomas E. Cecere, DVM, PhD* (Co-Chair)
Catherine Lamm, DVM*
Jeanine Peters, DVM*
Melissa D. Sanchez, VMD, PhD*

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

Industrial and Toxicologic Pathology
Manu M. Sebastian, DVM, PhD* (Chair)
Curtis Colleton, DVM*
Mike Conner, DVM* (Co-Chair)
Daniela Ennulat, DVM, PhD*
Mark Hoenerhoff, DVM, PhD* (Past Chair)
Gopinath Palanisamy, DVM, PhD*
Vito G. Sasseville, DVM, PhD*
Bhanu Singh, DVM*

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

2013 ASVCP PROGRAM COMMITTEE

Jennifer A. Neel, DVM* (Chair)
Anne Provencher Bolliger, DVM, MSc, DECVP, FIATP*
Bruce E. LeRoy, DVM, PhD*
Jeffery McCartney, DVM, MSc, DABT*
Joanne Messick, VMD, PhD*
M. Judith Radin, DVM, PhD*
Nicole Rosen, MT(ASCP)
Laura Snyder, DVM*
Susan J. Tornquist, DVM, PhD*
Linda Vap, DVM*
Marlyn S. Whitney, DVM, PhD*

*ACVP Diplomate
**REGISTRATION**

The Registration Area will be located on the Fifth Floor in the 517E Foyer at the Palais des congrès de Montréal and open during the following hours:

<table>
<thead>
<tr>
<th>Date</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Saturday, November 16</td>
<td>7:00 a.m.–7:30 p.m.</td>
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<tr>
<td>Sunday, November 17</td>
<td>7:00 a.m.–5:00 p.m.</td>
</tr>
<tr>
<td>Monday, November 18</td>
<td>7:30 a.m.–1:30 p.m.</td>
</tr>
<tr>
<td>Tuesday, November 19</td>
<td>7:30 a.m.–5:00 p.m.</td>
</tr>
<tr>
<td>Wednesday, November 20</td>
<td>8:00 a.m.–1:00 p.m.</td>
</tr>
</tbody>
</table>

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 Palais des congrès de Montréal 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 on the fifth floor of the Center.

**Palais des congrès de Montréal (Montréal Convention Center)**

All sessions are located on the fifth (5) floor of the Convention Center except the Presidential Reception, which is located on floor seven (7).

**LeWestin Hotel**

**Floor 3**
- Bonsecours
- Notre-Dame
- Papineau
- St-Sulpice
- Youville

**Floor 8**
- Beaver Hall
- McGill
- Palais
- Ramezay
- Ste-Helene
- St-Paul
- Viger

**Floor 9**
- Fortifications Ballroom
- Ville-Marie
- St-Antoine

**Floor 11**
- Montreal Ballroom
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 Montreal.

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 just found the best restaurant in Montreal 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 comment 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 Montreal!

Wireless Internet Service

Wireless internet service will be available free of charge in the Center this year. 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 45.5 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.

ASVCP-VLP is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS PACE Program.

This program meets the requirements for up to 9 hours of continuing education credit for Clinical Laboratory Scientists in jurisdictions which recognize PACE credits.
CAREER CENTER

ACVP is once again hosting its Career Center at the 2013 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 521A at the Palais des congrès de Montréal.

Open hours are:
Saturday, November 16 ........................................... 1:00 p.m.–8:30 p.m.
Sunday, November 17 ............................................. 9:00 a.m.–5:00 p.m.
Monday, November 18 .......................................... 9:00 a.m.–5:00 p.m.
Tuesday, November 19 .......................................... 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 517C Foyer at the Palais des congrès de Montréal, next to registration.

Saturday, November 16 ........................................... 1:00 p.m.–8:30 p.m.
Sunday, November 17 ............................................. 7:00 a.m.–7:30 p.m.
Monday, November 18 .......................................... 7:00 a.m.–5:00 p.m.
Tuesday, November 19 .......................................... 7:00 a.m.–5:00 p.m.

VIN is also offering free wi-fi in the Internet Station this year.

ACVP TOWN HALL BUSINESS MEETING

Sunday, November 17, 2013
6:00 p.m.–7:30 p.m.
Room 519, Palais des congrès de Montréal

Several recent changes have been made regarding the Certification Examination. Mike Topper, Secretary–Treasurer, Anne Barger, Councilor, and Keith Harris, Chair, Certifying Examination Board, will update the membership on releasing results of the examination to candidates and sponsors, passing sections of the examination after 2015, and more formal mentorship for candidates pursuing dual certification. Mandy Fales-Williams, Chair of the Maintenance of Certification Development Committee, will provide an update of the online web portal for maintenance of certification credits. Maxey Wellman, President, will moderate the program. Member participation in these discussions is welcome and encouraged.
The Speaker Ready Room is located in Room 521B at the Palais des congrès de Montréal. 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 16 ........................................ 12:00 noon–7:00 p.m.
Sunday, November 17 ........................................ 7:00 a.m.–6:00 p.m.
Monday, November 18 ...................................... 7:00 a.m.–6:00 p.m.
Tuesday, November 19 ..................................... 7:00 a.m.–5:00 p.m.
Wednesday, November 20 .............................. 7:00 a.m.–11:30 a.m.

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

<table>
<thead>
<tr>
<th>Date/Time is...</th>
<th>Then Your Time to Load Your Presentation is...</th>
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</table>
| Sunday, November 17  
Between 8:00 a.m.–12:00 noon | Report prior to 7:00 p.m. on Saturday, November 16 |
| Sunday, November 17  
Between 1:30 p.m.–5:00 p.m. | Report prior to 10:30 a.m. on Sunday, November 17 |
| Monday, November 18  
Between 8:00 a.m.–12:00 noon | Report prior to 6:00 p.m. on Sunday, November 17 |
| Tuesday, November 19  
Between 8:00 a.m.–12:00 noon | Report prior to 6:00 p.m. on Monday, November 18 |
| Tuesday, November 19  
Between 1:30 p.m.–5:00 p.m. | Report prior to 10:30 a.m. on Tuesday, November 19 |
| Wednesday, November 20  
Between 8:00 a.m.–12:00 noon | Report prior to 5:00 p.m. on Tuesday, November 19 |
| Wednesday, November 20  
Between 1:00 p.m.–5:00 p.m. | Report prior to 10:30 a.m. on Wednesday, November 20 |

*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).
FOCUSED SCIENTIFIC POSTER SESSIONS

Focused Scientific Posters will be available for viewing in Room 517C at the Palais des congrès de Montréal at the following times:

Sunday, November 17 ............................................ 9:30 a.m.–4:30 p.m.
Monday, November 18 ............................................ 9:30 a.m.–1:00 p.m.
Tuesday, November 19 ............................................. 9:30 a.m.–3:30 p.m.

Poster Setup:
Sunday, November 17............................................. 7:00 a.m.-9:00 a.m.

Poster Teardown:
Tuesday, November 19............................................. 3:30 p.m.-4:30 p.m.

New this year: 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 morning and Tuesday afternoon
• Industrial and Toxicologic Pathology Posters: Refreshment breaks on Sunday afternoon and Tuesday afternoon
• Natural Disease Posters: Refreshment breaks on Sunday morning and Sunday afternoon

ACVP Veterinary Student Posters will be available for viewing in Room 517C during the same hours as listed above. The setup and teardown dates and times are the same as the Focused Scientific Group posters.

WELCOME VETERINARY STUDENTS!

ACVP welcomes students from the Université de Montréal to participate in activities scheduled for Sunday, November 17:

Concurrent Sessions ............................................. 8:00 a.m.-12:00 noon
Emerging Disease Focus Seminar .............................. 12:15 p.m.-1:15 p.m.
IDEXX Veterinary Student Luncheon (all students) .... 1:30 p.m.-2:30 p.m.
Meet the Pathologists (in French) ............................. 2:30 p.m.-3:30 p.m.
Focused Scientific Poster Session ............................. 3:30 p.m.-4:30 p.m.
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 19 from 5:15 p.m.–6:45 p.m. in Room 519 at the Palais des congrès de Montréal.

Travel Award Judges
Thomas Cecere, DVM, PhD*
Robert A. Foster, BVSc, PhD*
Murray J. Hazlett, DVM, DVSc*
Margaret A. Miller, DVM, PhD*

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 winner’s names will be announced to the membership at the ACVP Awards and Recognition Event (Tuesday, November 19 at 5:15 p.m. in Room 519 at the Palais des congrès de Montréal.). Winners are asked to come to the front of the room for a photo after the Event.

Recipients of the 2013 ACVP Young Investigator Awards are asked to display their poster in the 517C Foyer on Wednesday, November 20 from 8:00 a.m.–12:00 noon. Posterboards will be provided for the display.

ACVP Young Investigator Award Judges

Diagnostic Pathology
Dominique Fournier, DVM, MVetSci*
Ingeborg Langohr, DVM, PhD*
Lanny Pace, DVM, PhD*
Rebecca Smedley, DVM*
ASVCP LIFETIME ACHIEVEMENT AWARD

2013 Recipient: Dr. Jeanne W. George

Congratulations to Dr. Jeanne George for receiving the 2013 ASVCP Lifetime Achievement Award! Jeanne completed her DVM, internship, and residency at Cornell University and her PhD at the University of Georgia. Since then, she has spent most of her incredibly productive career at the University of California-Davis, where she is now Professor Emeritus of Clinical Pathology. The following passages from letters of support for Jeanne’s nomination give some insights into her contributions to the field and her positive influence on the lives of the people around her.

Jeanne was a stellar, if not daunting, mentor with a passion for all things misunderstood or underappreciated (electrolytes, urinalysis, refractometers, large animals)! She had an unbridled passion for teaching. She would literally fly into the room chuckling about the pattern of phosphorus in goats or handing you the 1960’s “original article” that she had promised you on titrational acidosis. In resident gatherings (even now), we can all recite her list of sayings…I still find myself teaching current DVM students about electrolytes and repeating...now, “when Dr. George was here…she would have told you…” and I am not talking about history…and how things have changed…but rather I am always amazed at how what she taught continues to withstand the test of time. Finally, Jeanne was always the right balance of hard task master and loving life mentor. She cried at our weddings and she fussed over our kids. She shared with us her own personal trials and tribulations as well as her successes. Although retired, Jeanne occasionally comes through the halls and loves to provide her congratulations for accomplishments or share photos of her son and his family. She has retired gracefully...caring about all the right things...but keeping in touch with her professional family and her academic home. Dori Borjesson, DVM, PhD, Dipl. ACVP
One of the most significant things about Jeanne for me is the amazing desire she creates in her students to do better, understand more thoroughly, and constantly challenge clinical knowledge. Joanne Hodges, DVM, Dipl. ACVP

My sense is that the deepest, most lasting contribution Jeanne has made to our field is as a mentor to so many aspiring veterinary clinical pathologists. She was an exacting mentor to me, tough but caring. Mike Fry, DVM, MS, Dipl. ACVP

Quite honestly, prior to working directly with Dr. George, I was a bit intimidated by her productivity, knowledge, and reputation for demanding excellence in study and work, particularly in the area of clinical chemistry, electrolytes and acid/base balance. It only took a short time for me to realize that this accomplished woman was a kind, patient and gentle teacher. I feel fortunate to have been able to interact with her at ASVCP meetings and eventually serve with her in ASVCP leadership positions. Jeanne taught me so many new concepts in clinical chemistry and related the concepts to daily practice of clinical pathologists. In a friendly way, she challenged all around her to rise to her level of knowledge and practice. She is a tremendous mentor who is dedicated to quality in work and study of veterinary clinical pathology, and I am very proud to call her my colleague. Eric Schultze, DVM, PhD, Dipl. ACVP, Fellow IATP

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 Case Review Session scheduled for Tuesday, November 19 at 1:30 p.m. in Room 524A at the Palais des congrès de Montréal.

Judges
Jed Overmann, DVM*
M. Judith Radin, DVM, PhD*
Leslie Sharkey, DVM, PhD*
Tracy Stokol, BVSc, PhD*

*ACVP Diplomate
SOCIETY OF TOXICOLOGIC PATHOLOGY (STP) STUDENT POSTER AWARD

Purpose
The Society of Toxicologic Pathology (STP) is pleased to announce the Seventh 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 2014 STP Annual Meeting, which will take place June 22-26, in Washington, DC, 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 19, 2013 from 5:15 p.m.–6:45 p.m. in Room 519 at the Palais des congrès de Montréal.

Student Poster Award Judges
Wayne Dochterman, DVM*
Jessica S. Hoane, DVM*
Keith G. Nelson, DVM, PhD*
VETERINARY STUDENT POSTER AWARDS

For the tenth 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 amongst 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 19 starting at 5:15 p.m. in Room 519 at the Palais des congrès de Montréal. 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

Clinical Series/Case
Bruce E. LeRoy, DVM, PhD*
Elizabeth W. Uhl, DVM, PhD*

Experimental Disease
Amanda J. Fales-Williams, DVM, PhD*
Janet C. Patterson-Kane, BVSc, PhD*

ACVP PRESIDENTIAL RECEPTION

This year, the Presidential Reception will be held in Room 710 at the Palais des congrès de Montréal on Tuesday, November 19 starting at 7:00 p.m. Each attendee and spouse/guest that 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 18, 2013 from 5:15 p.m.–6:45 p.m. in the Montreal Ballroom B at Le Westin Hotel. Please be sure to join your friends and colleagues!

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 2014 Annual Meeting in Atlanta!
ACVP is proud to present its Tenth Annual Silent Auction at the 2013 Annual Meeting! Located in the Palais des congrès de Montréal, Room 517C, 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 19. The highest bids/bidders will be announced on Tuesday afternoon at the Silent Auction area. Plan to pickup your Silent Auction item at the ACVP Registration Desk located in the 517E Foyer at the Palais des congrès de Montréal prior to 1:00 p.m. on Wednesday, November 20.

MICROSCOPES AND SLIDE SETS

Mystery Slide Review and Neuropathology Case Presentations
Sunday, November 17 from 7:30 p.m.–9:30 p.m. in Room 520C, Palais des congrès de Montréal.

Slide sets will be available for viewing in Room 517C on Sunday, November 17 from 9:30 a.m.–4:30 p.m. Microscopes will be available at Room 520C one hour prior to the session.

Mystery Slide Review: Cattle Diseases
Monday, November 18 from 7:00 p.m.–9:00 p.m. in Room 520C, Palais des congrès de Montréal.

Slide sets will be available for review in Room 517C on Sunday and Monday. Microscopes will be available at Room 520C one hour prior to the session.

ASVCP Case Review Session
Tuesday, November 19 from 1:30 p.m.–5:00 p.m. in Room 524A, Palais des congrès de Montréal.

Slide sets will be available for review in Room 517C on Sunday and Monday.

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

Thanks to Olympus for providing the microscopes!

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 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 in the St-Sulpice Room at Le Westin Hotel.

If you have any questions, please visit the ACVP Registration Area at the 517E Foyer at the Palais des congrès de Montréal.

STUDENT AND GUEST HOSPITALITY AREA

The Student and Guest Hospitality area will be open at the following times in the St-Sulpice Room at Le Westin Hotel:

- Sunday, November 17: 8:00 a.m.–5:00 p.m.
- Monday, November 18: 8:00 a.m.–5:00 p.m.
- Tuesday, November 19: 8:00 a.m.–5:00 p.m.
- Wednesday, November 20: 8:00 a.m.–11:00 a.m.

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

COMMUNITY SERVICE
LE COFFRE AUX TRESORS DU CHAINON

Did you register to attend the Community Service activity on Monday afternoon? If so, please meet in the lobby of Le Westin Hotel at 1:15 p.m.

Le Coffre aux tresors du Chainon offers some used and new merchandise at a very low price. The clothes, furniture and household items in the store are goods donated by members of the community. The revenue from these sales is the main source of funding for Le Chainon, which is a shelter for women. You will be involved with sorting clothes in the afternoon. Thank you for volunteering!
**VERY IMPORTANT PATHOLOGIST PROGRAM**

The Eighth Annual Very Important Pathologist Program is designed to give ACVP emeritus members, and those with 25+ years of certification, an opportunity to visit with old friends and colleagues, hear about the direction of the College, learn more about the history and local lore of the Annual Meeting site, and, of course, participate in the educational offerings of the scientific program at the Annual Meeting.

**Tuesday, November 19, 2013**
9:00 a.m.–4:30 p.m.
Meet in the Lobby of Le Westin Hotel at 8:45 a.m.

**Schedule of Events**

- **9:00 a.m. – 10:00 a.m.**
  Walking Tour of Old Montreal with one of Montréal’s favorite guides.
  Starting from Le Westin Hotel and ending at Pointe-à-Callière Museum

- **10:00 a.m. – 11:30 a.m.**
  Visit Pointe-Callière Museum of Montreal History & Archaeology, accompanied by an archaeologist

- **11:30 a.m. – 1:00 p.m.**
  Lunch at Café L’Arrivage (PAC Museum)

- **1:00 p.m. - 1:30 p.m.**
  Transfer by mini-bus from PAC Museum to the Biodome

- **1:30 p.m. – 4:00 p.m.**
  Tour of the Biodome and ‘behind the scenes’ with veterinarians and pathologists

- **4:30 p.m.**
  Back at Le Westin Hotel

Program Cost: $135 per person. (Participants must also register to attend the Annual 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 2013 Proceedings!
2014 ANNUAL MEETING CALL FOR ABSTRACTS DEADLINE

July 1, 2014

FUTURE ANNUAL MEETING DATES AND SITES

2014 Annual Meeting
November 8-12, 2014
Marriott Marquis Hotel, Atlanta, Georgia USA

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

2016 Annual Meeting
New Orleans, Louisiana, USA

2017 Annual Meeting
Vancouver, BC, Canada

COUNCIL RECOGNITION

The following Council Members will soon be ending their terms. The Council extends their gratitude to these dedicated volunteers.

Claire Andreasen, DVM, PhD*
Mark Simpson, DVM, PhD*

ACVP COUNCIL

President:
Maxey L. Wellman, DVM, PhD*

Vice President/President Elect:
Cory Brayton, DVM, PhD*

Secretary Treasurer:
Michael J. Topper, DVM, PhD*

Immediate Past President:
Claire Andreasen, DVM, PhD*

Councilors:
Anne M. Barger, DVM*
Krista La Perle, DVM, PhD*
Dave Malarkey, DVM, PhD*
Mark Simpson, DVM, PhD*

* ACVP Diplomate
ASVCP EXECUTIVE BOARD

President
Marilyn Whitney, DVM, PhD*

Immediate Past President
Leslie Sharkey, DVM, PhD*

President-Elect
Anne Provencher Bolliger, DVM, MSc, DECVC*

2nd Year Board Member
Jeffery McCartney, DVM, MSc, DABT*

1st Year Board Member
Linda Vap, DVM*

Secretary
Robin Allison, DVM, PhD*

Treasurer
Jennifer Johns, DVM, PhD*

EXHIBITORS

Exhibits are located in Room 517C at the Palais des congrès de Montréal. 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 16 ........................................7:00 p.m.–8:30 p.m.
Opening Reception
Sunday, November 17 ............................................9:30 a.m.–4:30 p.m.
Monday, November 18 ............................................9:30 a.m.–1:00 p.m.
Tuesday, November 19 ............................................9:30 a.m.–3:30 p.m.

See page 121 of this final program book for a listing of exhibiting companies.
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 Le Westin Hotel, please dial 0. The operator will respond, evaluate the emergency, and notify the proper authorities.

At the Palais, please contact the Security Operational Center immediately. It can be contacted 24/7 by dialing extension 3141 from any house phone located in the facility or 514-871-3141 with a cell phone or/and from the exterior. Any Palais personnel can also assist you. Contacting Security Operational Center will greatly minimize response time in the event an emergency medical unit has to be dispatched to the Convention Center. Security personnel can quickly assess the situation and lead emergency personnel (because of the size of the building and it's 16 entrances) directly to the individual in need, saving precious minutes. For this reason, the Palais requests that our clients and guests NOT contact 911 directly.

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

4. Review fire safety evacuation plans located on the walls near the event rooms at the Palais. Take note of the location of fire stairwells, manual fire alarms, and fire extinguishers. If an alarm is activated at the Palais (horns and strobe lights will be on), move towards 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 Palais staff. Monitors and security officers will assist participants in moving outside of the building.

5. Ask at the Westin Montreal 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, Montreal 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. Elevators are only accessible with the guest room key.

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 security immediately.

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.
# COMMITTEE MEETINGS

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

## FRIDAY, NOVEMBER 15

**ASVCP Executive Board**  
3:00 p.m.-9:00 p.m.  
Youville, Le Westin Hotel, 3rd Floor

## SATURDAY, NOVEMBER 16

**ACVP Council**  
8:00 a.m.-5:00 p.m.  
Room 448, MCC, 4th Floor

**ASVCP Executive Board**  
8:00 a.m.-4:00 p.m.  
Youville, Le Westin Hotel, 3rd Floor

**ACVP Council and ASVCP Executive Board Meeting**  
12:00 noon-1:30 p.m.  
Montreal B, Le Westin Hotel, 11th Floor

**Veterinary Pathology Editors Luncheon**  
12:00 noon-2:00 p.m.  
St-Antoine A, Le Westin Hotel, 9th Floor

**ACVP Education Committee**  
5:00 p.m.-8:00 p.m.  
Montreal D, Le Westin Hotel, 11th Floor

**ASVCP Executive Board and Committees**  
4:00 p.m.-6:00 p.m.  
St-Sulpice, Le Westin, 3rd Floor

**Exam Committee**  
6:00 p.m.-9:00 p.m.  
Montreal B, Le Westin Hotel, 11th Floor

**ASVCP Education Committee**  
8:00 p.m.-9:00 p.m.  
Ville-Marie A, Le Westin Hotel, 9th Floor

## SUNDAY, NOVEMBER 17

**ASVCP Regulatory Affairs Committee**  
6:30 a.m.-8:00 a.m.  
St-Antoine A, Le Westin Hotel, 9th Floor

**Intersociety Experimental Pathology (IEP) Committee**  
7:00 a.m.-8:00 a.m.  
Papineau, Le Westin Hotel, 3rd Floor

**Veterinary Pathology Editorial Board Meeting**  
8:00 a.m.-9:30 a.m.  
Ville-Marie A, Le Westin Hotel, 9th Floor
ACVP Council
8:00 a.m.-5:00 p.m.
Room 448, MCC, 4th Floor

Veterinary Clinical Pathology Editorial Board Meeting
12:00 noon-1:30 p.m.
St-Antoine A, Le Westin Hotel, 9th Floor

MONDAY, NOVEMBER 18

ACVP Council and Exam Committee
7:00 a.m.-8:00 a.m.
Montreal A, Le Westin Hotel, 11th Floor

ASVCP Quality Assurance and Standards Committee
7:00 a.m.-8:00 a.m.
Ville-Marie A, Le Westin Hotel, 9th Floor

ASVCP Program Committee
7:00 a.m.-8:00 a.m.
Papineau, Le Westin Hotel, 3rd Floor

Domestic Alliances Committee
7:00 a.m.-8:00 a.m.
St-Antoine B, Le Westin Hotel, 9th Floor

Training Program Committee
7:00 a.m.-8:00 a.m.
St-Antoine A, Le Westin Hotel, 9th Floor

Government Policy Committee
7:00 a.m.-8:00 a.m.
Bonsecours, Le Westin Hotel, 3rd Floor

Certifying Examination Board
7:00 a.m.-9:00 a.m.
Ville-Marie B, Le Westin Hotel, 9th Floor

ACVP Council and Education Committee
12:15 p.m.-1:15 p.m.
Montreal A, Le Westin Hotel, 11th Floor

TUESDAY, NOVEMBER 19

ASVCP Veterinary Laboratory Professionals Program Committee
7:00 a.m.-8:00 a.m.
Ville-Marie B, Le Westin Hotel, 9th Floor

ACVP Maintenance of Certification Development Committee
7:00 a.m.-9:00 a.m.
Ramezay, Le Westin Hotel, 8th Floor

Awards Committee
7:00 a.m.-8:00 a.m.
Ville-Marie A, Le Westin Hotel, 9th Floor

International Alliances Committee
7:00 a.m.-8:00 a.m.
Palais, Le Westin Hotel, 8th Floor
ACVP Council
8:00 a.m.-5:00 p.m.
Room 448, MCC, 4th Floor

Introduction to the VCS/ACVP Joint Oncology Pathology Working Group
12:00 noon-1:30 p.m.
Room 518C, MCC

Training Program Network Meeting
12:00 noon-1:30 p.m.
Montreal D, Le Westin Hotel, 11th Floor

WEDNESDAY, NOVEMBER 20

Focused Scientific Groups Meeting
7:00 a.m.-8:00 a.m.
Montreal A, Le Westin Hotel, 11th Floor

ACVP Council
8:00 a.m.-12:00 noon
Room 447, MCC, 4th Floor

MCC=Montreal Convention Center / Palais des congrès de Montréal

CONCURRENT EVENTS

SATURDAY, NOVEMBER 16

Japanese Group of ACVP (JaGA)
8:00 p.m.-10:00 p.m.
St-Antoine A, Le Westin Hotel, 9th Floor

SUNDAY, NOVEMBER 17

Pathology Chairs Breakfast
7:00 a.m.-9:00 a.m.
Ville-Marie B, Le Westin Hotel, 9th Floor

IDEXX Veterinary Pathology Resident Luncheon
12:00 noon-1:30 p.m.
Montreal B, Le Westin Hotel, 11th Floor

IDEXX/ACVP Veterinary Student Luncheon
1:30 p.m.-2:30 p.m.
Room 520B, MCC, 5th Floor

Council and Corporate Partners Reception
5:00 p.m.-6:00 p.m.
Ramezay, Le Westin Hotel, 8th Floor

Cornell University College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.
Palais, Le Westin Hotel, 8th Floor
North Carolina State University College of Veterinary Medicine Alumni Reception  
7:30 p.m.-9:00 p.m.  
Viger, Le Westin Hotel, 8th Floor

Antech Diagnostics Reception  
7:30 p.m.-9:30 p.m.  
Fortifications Ballroom, Le Westin Hotel, 9th Floor

Washington State University College of Veterinary Medicine Alumni Reception  
7:30 p.m.-9:30 p.m.  
Ste-Helene, Le Westin Hotel, 8th Floor

MONDAY, NOVEMBER 18

The Latin Comparative Pathology Group Presents  
12:15 p.m.-2:00 p.m.  
Room 518C, MCC

Latin Comparative Pathology Group Business Meeting  
2:00 p.m.-3:00 p.m.  
Room 518C, MCC

Veterinary Student and Resident Forum  
3:00 p.m.-5:00 p.m.  
Grande Place, Le Westin Hotel, 8th Floor

C.L. Davis Foundation Reception  
5:00 p.m.-6:30 p.m.  
Montreal C, Le Westin Hotel, 11th Floor

ASVCP Reception (open to ASVCP members)  
5:15 p.m.-6:45 p.m.  
Montreal B, Le Westin Hotel, 11th Floor

IDEXX Reception  
5:30 p.m.-7:00 p.m.  
Ramezay, Le Westin Hotel, 8th Floor

Comparative Pathologists Consortium Reception  
6:00 p.m.-8:30 p.m.  
McGill, Le Westin Hotel, 8th Floor

University of Georgia College of Veterinary Medicine Alumni Reception  
6:30 p.m.-8:00 p.m.  
Palais, Le Westin Hotel, 8th Floor

Iowa State University College of Veterinary Medicine Alumni Reception  
6:30 p.m.-7:30 p.m  
Viger, Le Westin Hotel, 8th Floor
University of California-Davis College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.
Ste-Helene, Le Westin Hotel, 8th Floor

Ohio State University College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.
Ville-Marie, Le Westin Hotel, 9th Floor

Colorado State University College of Veterinary Medicine Alumni Reception
7:00 p.m.-9:00 p.m.
St-Antoine A, Le Westin Hotel, 9th Floor

TUESDAY, NOVEMBER 19

ACVP Legacy Society Breakfast
7:00 a.m.-8:00 a.m.
Montreal C, Le Westin Hotel, 11th Floor

International Veterinary Pathology Coalition
8:00 a.m.-10:00 a.m.
Montreal A, Le Westin Hotel, 11th Floor

Very Important Pathologist Program
9:00 a.m.-4:30 p.m.
Meet in the Lobby of Le Westin Hotel at 8:45 a.m.

ACVP/STP Coalition for Veterinary Pathology Business Luncheon
12:00 noon-1:30 p.m.
Montreal B, Le Westin Hotel, 11th Floor

ACVP/STP Coalition for Veterinary Pathology Fellows Board of Governors Meeting
1:30 p.m.-3:30 p.m.
Ville-Marie A, Le Westin Hotel, 9th Floor

ACVP Presidential Reception
7:00 p.m.-9:30 p.m.
Room 710, MCC, 7th Floor

MCC=Montreal Convention Center / Palais des congrès de Montréal
MEETING ROOM FLOOR PLANS

LE WESTIN MONTRÉAL - 3RD FLOOR
MEETING ROOM FLOOR PLANS

LE WESTIN MONTRÉAL - 8TH FLOOR
7:00 a.m.–7:30 p.m. ........................................... 517E Foyer, MCC
Registration

8:00 a.m.–5:00 p.m. ............................................ Room 520A, MCC
ASVCP Pre-Meeting Workshop (available at an additional fee)
Writing for Publication in Veterinary Medicine: Keys to Success
Session Chairs: Mary M. Christopher, DVM, PhD, DECVP* & Karen Young, VMD, PhD*

8:00 a.m.–5:00 p.m. ............................................ Room 524, MCC
C.L. Davis Pre-Meeting Workshop (available at an additional fee)
A Day with Brian Wilcock
Session Chair: Bruce Williams, DVM*

8:00 a.m.–5:30 p.m. ............................................ Room 520B, MCC
Primate Pathology Workshop (available at an additional fee)
Malaria in Primates: An Evolving Global Health Challenge

12:00 noon-7:00 p.m. ........................................... Room 521B, MCC
Speaker Ready Room

1:00 p.m.–8:30 p.m. ........................................... Room 521A, MCC
Career Center

1:00 p.m. ......................................................... 517C Foyer, MCC
Internet Station
Sponsored by VIN

5:30 p.m.-6:30 p.m. ............................................ Room 518C, MCC
Social Media: Using Connections to Find Your Career Path
Speaker: Heather Jury,
Senior Talent Sourcing Strategist, IDEXX Laboratories, Inc.
Sponsored by IDEXX Laboratories

6:00 p.m.–8:00 p.m. ........................................... Room 520A, MCC
ASVCP Teaching Clinical Pathology
Perceived Needs for Continuing Education in Clinical Pathology: A Survey of Practicing Veterinarians and Clinical Pathologists
Session Chair: Jed Overmann, DVM*

7:00 p.m.–8:00 p.m. ........................................... Room 517C, MCC
Opening Reception
(cash bar and hors d’oeuvres)

* ACVP Diplomate
7:00 a.m.–5:00 p.m. ........................................... 517E Foyer, MCC
Registration

7:00 a.m.–5:00 p.m. ........................................... Room 521B, MCC
Speaker Ready Room

7:00 a.m. ......................................................... 517C Foyer, MCC
Internet Station
Sponsored by VIN

8:00 a.m.–5:00 p.m. .......... St-Sulpice, Le Westin Hotel, 3rd Floor
Student and Guest Hospitality Area

8:00 a.m.–12:00 noon ........................................... Room 518A, MCC
ASVCP Education Symposium: It’s Elementary: Evidence-
Based Cytology
Session Chair: Jennifer Neel, DVM*

8:00 a.m.–8:10 a.m.
Introduction

8:10 a.m.–9:00 a.m.
Evidence-Based Cytology: What is Evidence?
Carlo Masserdotti, DVM, DECVCP

9:00 a.m.–9:50 a.m.
The Evidence-Based Approach to Changing the Routine
Practice of Diagnostic Cytopathology and Resident
Training Focused Topics and Issues
Gordon H. Yu, MD

9:50 a.m.–10:20 a.m. ........................................... Room 517C, MCC
Refreshment Break and Focused Scientific Posters

10:20 a.m.–11:10 a.m.
Quality Improvement and Risk Reduction in Cytopathology
Dina R. Mody, MD

11:10 a.m.–12:00 noon
Historical Overview of Evidence-Based Diagnostic
Cytology Including Bone Marrow in Veterinary Medicine
Rose E. Raskin, DVM, PhD*

8:00 a.m.–12:00 noon ........................................... Room 518C, MCC
Career Development: I Was Not Trained for This!
Session Chair: Erin Brannick, DVM, MS*
Session Co-Chair: David K. Meyerholz, DVM, PhD, DACVM*

8:00 a.m.–8:15 a.m.
Introduction

8:15 a.m.–8:50 a.m.
Running a Governmental Diagnostic Laboratory
Frederic J. Hoerr, DVM, PhD, DACPV*
8:50 a.m.–9:25 a.m.
Directing a Division at a Contract Research Organization
Kevin S. McDorman, DVM, PhD*

9:25 a.m.–10:00 a.m.
Supervising a Combined Pathology Residency/Graduate Program
Paul C. Stromberg, DVM, PhD*

10:00 a.m.–10:30 a.m. ........................................Room 517C, MCC
Refreshment Break and Focused Scientific Posters

10:30 a.m.–11:30 a.m.
Developing and Leading a Core Facility
Kelli L. Boyd, DVM, PhD*
Krista La Perle, DVM, PhD*

11:30 a.m.–12:00 noon
Q&A Session
Kelly L. Boyd, DVM, PhD*
Frederic J. Hoerr, DVM, PhD, DACPV*
Krista La Perle, DVM, PhD*
Kevin S. McDorman, DVM, PhD*
Paul C. Stromberg, DVM, PhD*

8:00 a.m.–12:00 noon ................................................Room 524C, MCC
Mini-Symposium: Pathology and Toxicology of Alternative Therapeutics
Session Chair: Marie-Odile Benoit-Biancamano, DVM, PhD, DECVP*

8:00 a.m.–8:25 a.m.
Alternative Medications to the Little White Pill
Ken Frazier, DVM, PhD, DABT, FIATP*

8:25 a.m.–9:15 a.m.
Examples of Histopathology from Preclinical Cellular Therapy Studies
Julia F.M. Baker, BVMS, DipRCPath, MRCVS

9:15 a.m.–10:00 a.m.
Toxicologic Pathology of Antisense Oligonucleotide Therapies
Cécile Sobry, DVM*

10:00 a.m.–10:30 a.m. ..................................................517C, MCC
Refreshment Break and Focused Scientific Posters

10:30 a.m.–11:15 a.m.
Thinking Small: New Approaches for Evaluating the Toxicologic Pathology of Nanotechnology Products
Ann Hubbs, DVM, PhD*

11:15 a.m.–12:00 noon
Les Nouvelles Thérapies: de Nouveaux Défis en Toxicopathologie
Marie-Odile Benoît-Biancamano, DVM, PhD, DECVP*
Cécile Sobry, DVM*
(This presentation will be in French.)

Co-Sponsored by the ECVP
Experimental Disease Focused Scientific Session I

Session Chair: K. Gibson-Corley
Committee Members: M. Gagea, J. Greenlee (Past Chair), S. Monette, B. Plattner (Co-Chair), and R. Read
Supported by Genentech

Platform Presentations

8:00 a.m.-9:00 a.m.
Invited Speaker
MOUSE MODELS OF HUMAN BREAST CANCER: WHAT THEY HAVE TOLD US
R. Cardiff

9:00 a.m.-9:15 a.m.
CHARACTERIZATION OF THE BRAIN MICROENVIRONMENT SURROUNDING PERMEABLE AND IMPERMEABLE LESIONS IN A MOUSE MODEL OF BRAIN METASTATIC INFLAMMATORY BREAST CANCER
L.T. Reed, B. Gril, G. Mason, and P.S. Steeg
Keyword: Neoplasia

9:15 a.m.-9:30 a.m.
CONDITIONAL DELETION OF PTEN WITHIN MURINE UTERINE EPITHELIIUM RESULTS IN ENDOMETRIAL CARCINOMA
C. Koivisto, V. Bravo, A. Perez-Castro, K. La Perle, and G. Leone
Keyword: Reproductive System

9:30 a.m.-9:45 a.m.
LOSS OF RHYTHMIC CIRCADIAN CLOCK GENE EXPRESSION IS ASSOCIATED WITH DECREASES IN ESTROGEN RECEPTOR EXPRESSION IN CANINE MAMMARY CANCER
K.L. Hughes, S. Bracha, C. Goodall Peyton, and P.E. Chappell
Keyword: Neoplasia

9:45 a.m.-10:00 a.m.
EXPRESSION OF DIFFERENT INTEGRIN SUBUNITS IN HUMAN AND MURINE TRANSGENIC Pancreatic Ductal Adenocarcinoma and Its Precursor Lesions
Keyword: Liver and Pancreas

10:00 a.m.-10:30 a.m.
REFRESHMENT BREAK—VISIT THE EXPERIMENTAL DISEASE FOCUSED SCIENTIFIC POSTERS!

10:30 a.m.-11:15 a.m.
Invited Speaker
MICROBIAL PROVOCATION AND SUSCEPTIBILITY TO GASTROINTESTINAL INFLAMMATION
A. Ramer-Tait
11:15 a.m.-11:30 a.m.
**CYSTIC FIBROSIS FERRETS MODEL PULMONARY AND GASTROINTESTINAL DISEASE PATHOLOGY**
Keyword: Ferret

11:30 a.m.-11:45 a.m.
**TRANSCRANIAL NEUTRALIZATION OF REACTIVE OXYGEN SPECIES AMELIORATES MILD TRAUMATIC BRAIN INJURY**
K.N. Corps, T.L. Roth, and D.B. McGavern
Keyword: Nervous System

11:45 a.m.-12:00 noon
**FIBROBLASTS EXPRESS OVHV-2 CAPSID PROTEIN IN VASCULITIS LESIONS OF AMERICAN BISON (BISON BISON) WITH EXPERIMENTAL SHEEP-ASSOCIATED MALIGNANT CATARRHAL FEVER**
Keyword: Infectious Disease

8:00 a.m.-12:00 noon ..................................................
Room 519, MCC
**Natural Disease Focused Scientific Session I**
Session Chair: J.P. Teifke
Committee Members: G. Haldorson, I. Langohr (Co-Chair), A. Miller, B.L. Njaa (Past Chair), D.R. Rissi, and N. Wakamatsu

**Platform Presentations**

8:00 a.m.-8:15 a.m.
**CHRONIC SEIZURE ACTIVITY IN FVB/N MICE**
D. Schwahn and R. Kohnken
Keyword: Laboratory Animals, Nervous System

8:15 a.m.-8:30 a.m.
**ATOXOPLASMA-ASSOCIATED MYOCARDITIS AND MYOSITIS IN PASSERINE BIRDS**
A.L. Righton, K.A. Terio, M.J. Adkesson, and T. Snyder
Keyword: Avian, Infectious Disease

8:30 a.m.-8:45 a.m.
**THYROID GLAND MORPHOMETRICS AND IODINE CONCENTRATION IN CAPTIVE SOUTHERN STINGRAYS AND COWNOSE RAYS**
N.L. Stedman, T.N. Tollefson, and Z.V. Mills
Keyword: Fish, Endocrine

8:45 a.m.-9:00 a.m.
**PISCINE EXOPHALOSIS CASES SUBMITTED TO THE PATHOLOGY DEPARTMENT, UNIVERSITY OF GEORGIA, 2006-2013**
J.A. Dill and A.C. Camus
Keyword: Fish, Infectious Disease
9:00 a.m.-9:15 a.m.
HEPATIC LESIONS IN HARBOR PORPOISES STRANDED ALONG THE DUTCH COAST (2008-2012)
S. Hiemstra, L. Harkema, L.C.M. Wiersma, and R.I. Keesler
Keyword: Wildlife

9:15 a.m.-10:00 a.m.
Invited Speaker
THE LIFE AND DEATH OF BELUGA WHALES INHABITING THE ST. LAWRENCE ESTUARY (QUEBEC, CANADA)
D. Martineau

10:00 a.m.-10:30 a.m. Room 517C, MCC
REFRESHMENT BREAK – VISIT THE NATURAL DISEASE FOCUSED SCIENTIFIC POSTERS!

10:30 a.m.-10:45 a.m.
NEUROLOGIC DISEASE IN CATTLE CAUSED BY THE NOVEL BOVINE ASTROVIRUS BOVASTV-NEUROS1
Keyword: Infectious Disease

10:45 a.m.-11:00 a.m.
FIP OPHTHALMITIS: HISTOPATHOLOGICAL, IMMUNOHISTOCHEMICAL, AND RT-PCR FINDINGS IN 35 CATS
Keyword: Eye and Ear, Infectious Disease

11:00 a.m.-11:15 a.m.
MELIOIDOSIS IN IMPORTED PIGTAIL MACAQUES
Keyword: Infectious Disease

11:15 a.m.-11:30 a.m.
PATHOLOGIC ASPECTS OF PESTE DES PETITS RUMINANTS (PPR): 40 CASES
A. Berkowitz, V. Bumbarov, and S. Perl
Keyword: Infectious Disease

11:30 a.m.-11:45 a.m.
SCHMALLENBERG VIRUS: A LONG-TERM EPIDEMIOLOGICAL, SEROLOGICAL, VIROLOGICAL AND PATHOLOGICAL FOLLOW-UP IN AFFECTED SHEEP FLOCKS
Keyword: Infectious Disease

11:45 a.m.-12:00 noon
SCHMALLENBERG VIRUS: PATHOLOGY OF A NEW ARTHROPOD-BORNE VIRUS IN GERMANY
Keyword: Infectious Disease
9:00 a.m.-5:00 p.m. ..............................................Room 521A, MCC
Career Center

9:30 a.m.–4:30 p.m. ..............................................Room 517C, MCC
Exhibits and Poster Session

10:00 a.m.–10:30 a.m. ..............................................Room 517C, MCC
REFRESHMENT BREAK: VISIT THE EXPERIMENTAL AND
NATURAL DISEASE FOCUSED SCIENTIFIC POSTERS!

12:15 p.m.–1:15 p.m. ..............................................Room 524A, MCC
Emerging Disease Focus Seminar
Clinical Signs, Epidemiology, Pathology and Diagnosis of an
Emerging Teratogenic Vector Borne Viral Disease of Ruminants—
Schmallenberg Virus as an Example
Peter D. Kirkland, BVSc, PhD, FASM, PSM

12:30 p.m.–4:30 p.m. ..............................................Room 518C, MCC
ASVCP Veterinary Laboratory Professionals Session I
Session Chair: Nicole Rosen, MT(ASCP)

1:00 p.m.–2:00 p.m.
Quality Improvement and Risk Reduction in Cytopathology
Diane R. Mody, MD

2:00 p.m.–3:00 p.m.
Quantifying and Reporting Reticulocytes: Benefits and Pitfalls
of Each Method
Melinda Camus, DVM*

3:00 p.m.–3:30 p.m. ..............................................Room 517C, MCC
Refreshment Break and Focused Scientific Posters

3:30 p.m.–4:30 p.m.
Reticulocyte Indices in the Assessment of Iron Availability
Andrea Bohn, DVM, PhD*

1:30 p.m.–4:30 p.m. ..............................................Room 518A, MCC
Clinical Pathology Focused Scientific Session I
Session Chair: A. Provencher Bolliger
Committee Members: D. DeNicola, C. Grimes, C. Wiedmeyer, and A.
Wilcox

Platform Presentations

1:30 p.m.–2:30 p.m.
Invited Speaker
LOSS OF IMPRINTING AT THE 14q32 LOCUS IN
OSTEOSARCOMA
S. Subramanian

2:30 p.m.–2:45 p.m.
Pig-A Mutagenesis Assay and Regenerative Anemia in
Rats
B. LeRoy, P. Sonders, J. Murray, J. Nicolette, and E. Blomme
Keyword: Clinical Pathology
2:45 p.m.-3:00 p.m.
RETICULOCYTOSIS IN NON-ANEMIC DOGS: AN INVESTIGATION INTO POTENTIAL ETIOLOGIES
Keyword: Hematology

3:00 p.m.-3:30 p.m.
RETICULOCYTOSIS IN NON-ANEMIC DOGS: AN INVESTIGATION INTO POTENTIAL ETIOLOGIES
Keyword: Hematology

3:30 p.m.-3:45 p.m.
FELINE MICROCYTOSIS: A RETROSPECTIVE STUDY OF 165 CATS
K. Uchiumi, E.H. Griffith, J.A. Neel, and C.B. Grindem
Keyword: Hematology

3:45 p.m.-4:00 p.m.
IDENTIFICATION OF VACCINE-DERIVED MATERIAL IN INFLAMMATORY LESIONS USING CULTURED CANINE MACROPHAGES
J.L. Scruggs and C.J. LeBlanc
Keyword: Cytology

4:00 p.m.-4:15 p.m.
ALKALINE PHOSPHATASE IS A SENSITIVE AND SPECIFIC MARKER FOR CANINE ACUTE MYELOMONOCYTIC AND MONOCYTIC LEUKEMIA
T. Stokol, D.M. Schaefer, M. Shuman, and N. Bell
Keyword: Cytology

4:15 p.m.-4:30 p.m.
CYTOCHEMICAL CHARACTERIZATION OF BLOOD LEUKOCYTES IN ELASMOBRANCHS
K. Webb†, N. Stacy, J. Neel, T. Clauss, L. Leppert, A. Santos, and R. Raskin
Keyword: Hematology

+Competitor for the ASVCP Young Investigator Award

1:30 p.m.–5:00 p.m.
Diagnostic Pathology Focused Scientific Session I
Session Chair: B. Lewis
Committee Members: A. Nyaoke (Co-Chair), S. Raverty, D. Rotstein, and F.A. Uzal (Past Chair)

Platform Presentations

1:30 p.m.-1:40 p.m.
DUCTAL PLATE MALFORMATION IN BOXER DOGS: CLINICAL AND HISTOLOPATHOLOGICAL CHARACTERISTICS
S.P.S. Pillai†, S.A. Center, and S.P. McDonough
Keyword: Liver and Pancreas

1:40 p.m.-1:50 p.m.
HISTOLOGIC CHARACTERIZATION OF DARK SPOT LESIONS IN MADRACIS CORALS
C. Hollinger†, B. Curtis, A. Bruckner, B. Riegl, and M. Kiupel
Keyword: Wildlife

*ACVP Diplomate
1:50 p.m.-2:00 p.m.
LESIONS ASSOCIATED WITH CAPILLARIA SP. IN THE FORESTOMACH OF WILD URBAN RATTUS NORVEGICUS AND RATTUS RATTUS
J.L. Rothenburger\(^*\), F.A. Leighton, M. Lejeune, P.M. Treuting, and C.G. Himsworth
Keyword: Alimentary

2:00 p.m.-2:10 p.m.
USE OF MALDI-TOF MS FOR PREDICTING RESPONSE OF CANINE DIFFUSE LARGE B CELL LYMPHOMA TO CHOP CHEMOTHERAPY
C. Andrews\(^*\), C. Bolin, J. Buchwitz, N. Kettler, and M. Kiupel
Keyword: Neoplasia

2:10 p.m.-2:20 p.m.
WEST NILE VIRUS EPORNITIC IN A PELICAN RESEARCH COLONY IN MISSISSIPPI
S. Kumar\(^*\), A.J. Cooley, F.L. Cunningham, and W. Baumgartner
Keyword: Nervous System

2:20 p.m.-2:30 p.m.
A NOVEL FERRET ADENOVIRUS IDENTIFIED IN THE RESPIRATORY TRACT OF CYSTIC FIBROSIS FERRETS
Keyword: Respiratory System

2:30 p.m.-2:40 p.m.
CLINICAL, MORPHOLOGIC AND IMMUNOHISTOCHEMICAL FEATURES OF CANINE ORBITAL HIBERNOMAS
M. Ravi, C. Schober, R. Dubielzig, and M. Kiupel
Keyword: Eye and Ear

2:40 p.m.-2:50 p.m.
FUNGAL POLYMERASE CHAIN REACTION TESTING IN EQUINE ULCERATIVE KERATITIS
C. Zeiss, M. Neaderland, F. Yang, G. Terwilliger, and S. Compton
Keyword: Eye and Ear

2:50 p.m.-3:00 p.m.
INVESTIGATIVE DIAGNOSTIC PATHOLOGY IN ANIMAL FEED OUTBREAKS-REGULATORY PERSPECTIVES
D.S. Rotstein, R. Reimschuessel, C. Tuite, A. Castiglia, J. Queen, M. Ross, and D.H. Woody, Jr.
Keyword: General Topic

3:00 p.m.-3:30 p.m..........................Room 517C, MCC REFRESHMENT BREAK – VISIT THE DIAGNOSTIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-3:40 p.m.
IONOPHORE TOXICOSIS IN A DOG: COMPARISON WITH BOVINE CASES
M. Behr, D. Sockey, L. Licari, and B. Puschner
Keyword: Toxicologic Pathology

\(^*\) ACVP Diplomate
3:40 p.m.-3:50 p.m.
UPPER GASTROINTESTINAL LESIONS CAUSED BY A FERRIC SULFATE LITTER TREATMENT PRODUCT IN DAY OLD BABY CHICKS
S.M. Williams, E.A. Myers, and G. Zavala
Keyword: Avian

3:50 p.m.-4:00 p.m.
ACUTE KIDNEY INJURY ASSOCIATED WITH PUTATIVE DRUG-INDUCED MINIMAL CHANGE DISEASE IN THREE PROTEINURIC DOGS
R.E. Cianciolo, G.E. Lees, and M. Nabity
Keyword: Urinary System

4:00 p.m.-4:10 p.m.
AN UNUSUAL CASE OF CONCOMITANT EQUINE PROTOZOAL MYELITIS AND CERVICAL VERTEBRAL INSTABILITY IN A STANDARDBRED GELDING
L. Kennedy
Keyword: Nervous System

4:10 p.m.-4:20 p.m.
AN UNUSUAL PLEOMORPHIC RETROBULBAR NEOPLASM IN A BEARDED DRAGON
A.E. Ellis and D. Martinez-Jimenez
Keyword: Neoplasia

4:20 p.m.-4:30 p.m.
CANINE ACANTHOMATOUS AMELOBLASTOMA WITH SQUAMOUS CELL CARCINOMA DIFFERENTIATION AND AMYLOID-PRODUCING EXTRAMEDULLARY LINGUAL PLASMACYTOMA
U. Bryant
Keyword: Neoplasia

4:30 p.m.-4:40 p.m.
CEREBRAL HISTIOCYTIC SARCOMA WITH HEPATIC METASTASIS IN A CORGI
A. McBride and W. Baumgartner
Keyword: Neoplasia

4:40 p.m.-4:50 p.m.
CHRONIC INTESTINAL PSEUDO-OBSTRACTION IN THREE ADULT DOGS: CASE REPORTS AND LITERATURE REVIEW
V.S. Carreira, S. French, J. Lamoureux, V. Vemiredd, K. Salisbur, and I. Langohr
Keyword: Alimentary

4:50 p.m.-5:00 p.m.
CLINICAL SIGNS AND LESIONS ASSOCIATED WITH A NOVEL HEMOTROPIC BACTERIUM IN SOWS IN QUEBEC, CANADA
A. Chiasson, D. Tremblay, C.A. Gagnon, I. Mandeville, and C. Girard
Keyword: Infectious Disease

^ACVP/AAVLD Diagnostic Pathology Travel Award Competitor

Supported by Antech Diagnostics
1:30 p.m.–5:00 p.m. ....................................................Room 524C, MCC
Industrial and Toxicologic Pathology Focused Scientific Session I

Session Chair: M. Sebastian
Committee Members: C. Colleton, M. Conner (Co-Chair), D. Ennulat, M. Hoenerhoff (Past Chair), G. Palanisamy, V. Sasseville, and B. Singh

Supported by Covance Laboratories

Platform Presentations

1:30 p.m.–1:35 p.m.
OPENING REMARKS

1:35 p.m.–2:20 p.m.
Invited Speaker
MICROHEMORRHAGE, ALZHEIMER’S DISEASE AND THE USE OF ANIMAL MODELS IN ITS ASSESSMENT
R. Dunstan

2:20 p.m.–2:40 p.m.
ASSESSING POTENTIAL THERAPIES FOR DUCHENNE MUSCULAR DYSTROPHY USING IN VIVO MUSCLE ELECTROPHYSIOLOGY IN THE MDX MOUSE
R. Terry and D.J. Wells
Keyword: Muscle

2:40 p.m.–3:00 p.m.
CHARACTERIZATION OF THE TUMOR SPECTRUM ARISING IN HZE IRRADIATED OUTBRED MICE
E. Edmondson, C. Fallgren, E. Garcia, D. Kamstock, and M. Weil
Keyword: Neoplasia

3:30 p.m.–4:20 p.m.
Invited Speaker
NOVEL BIOMARKERS OF SKELETAL MUSCLE INJURY
D. Watson

4:20 p.m.–4:40 p.m.
CHLOROQUINE CAUSES SIMILAR ELECTRORETINOGRAM MODIFICATIONS, NEURONAL PHOSPHOLIPIDOSIS AND MARKED IMPAIRMENT OF SYNAPTIC VESICLE TRANSPORT IN ALBINO AND PIGMENTED RATS
S. Lezmi, N. Rokh, G. Saint-Macary, M. Pino, V. Sallez, F. Thevenard, N. Roome, and S. Rosolen
Keyword: Nervous System

4:40 p.m.–5:00 p.m.
CONTRIBUTION OF THROMBIN AND PLATELETS TO ACETAMINOPHEN HEPATOTOXICITY IN MICE
Keyword: Toxicologic Pathology
1:30 p.m.–5:00 p.m. ..........................................., Room 524A, MCC
Natural Disease Focused Scientific Session II
Session Chair: J.P. Teifke
Committee Members: G. Haldorson, I. Langohr (Co-Chair), A. Miller, B.L. Njaa (Past Chair), D.R. Rissi, and N. Wakamatsu

Platform Presentations

1:30 p.m.-1:45 p.m.
EXPRESSION OF p62/SEQUESTOSOME-1 IN CANINE MAST CELL TUMORS: THE POTENTIAL FOR REFINED THERAPEUTIC DECISION-MAKING
T. Rich, R.T.G. Dean, C.G. Lamm, and J.C. Patterson-Kane
Keyword: Neoplasia

1:45 p.m.-2:00 p.m.
HER-2 AND METALLOPROTEASES IN CANINE MAMMARY TUMORS: EXPRESSION IN SINGLE VERSUS MULTIPLE NODULES AND IN SPECIFIC TUMOR SUBTYPES
V. Zappulli, E. Clementi, D. D’ambroso, R. Rasotto, and M. Castagnaro
Keyword: Mammary

2:00 p.m.-2:15 p.m.
DOES SYNOVIAL CELL SARCOMA EXIST IN ANIMALS?
L.E. Craig and R.A. Fairley
Keyword: Neoplasia

2:15 p.m.-3:00 p.m.
Invited Speaker
BOVINE NEONATAL PANCYTOPENIA AND BEYOND
S. Scholes

3:00 p.m.-3:30 p.m.
REFRESHMENT BREAK – VISIT THE NATURAL DISEASE FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.-3:45 p.m.
GENE EXPRESSION AND TISSUE TROPISM OF NATURAL RACCOON POLYMAMVIRUS (RacPyV) INFECTION
M. Church, F. Dela Cruz Jr., and P. Pesavento
Keyword: Wildlife, Infectious Disease

3:45 p.m.-4:00 p.m.
GENOMIC CHARACTERIZATION AND DISEASE ASSOCIATION OF A NEWLY DISCOVERED CANINE CIRCOVIRUS
Keyword: Infectious Disease
4:00 p.m.-4:15 p.m.
HUMAN CODON USAGE BIAS (CUB) HAS HIGHER RELATIVE ADAPTIVENESS FOR CANINE DISTEMPER VIRAL PROTEINS THAN CANINE CUB
E.W. Uhl and R.J. Hogan
Keyword: Infectious Disease

4:15 p.m.-5:00 p.m.
Invited Speaker
CANINE RESPIRATORY DISEASE COMPLEX: MORE COMPLEX THAN WE THOUGHT
E.J. Dubovi

3:00 p.m.-3:30 p.m. .................................................Room 517C, MCC
REFRESHMENT BREAK: VISIT THE CLINICAL PATHOLOGY, DIAGNOSTIC PATHOLOGY, INDUSTRIAL AND TOXICOLOGIC PATHOLOGY AND NATURAL DISEASE FOCUSED SCIENTIFIC POSTERS!

4:30 p.m.-6:00 p.m. .................................................Room 518A, MCC
ASVCP Business Meeting

6:00 p.m.-7:30 p.m. .................................................Room 519, MCC
ACVP Town Hall Business Meeting

7:30 p.m.-9:30 p.m. .................................................Room 520C, MCC
Mystery Slide Review and Neuropathology Case Presentations
Session Chair: Jey Koehler, DVM, PhD*

Supported by Consultants in Veterinary Pathology, Inc. & Tox Path Specialists

MCC=Montreal Convention Center / Palais des congrès de Montréal
7:00 a.m.  Internet Station
Sponsored by VIN

7:00 a.m.-5:00 p.m.  Room 521B, MCC
Speaker Ready Room

7:30 a.m.—1:00 p.m. 517E Foyer, MCC
Registration

8:00 a.m.-5:00 p.m.  St-Sulpice, Le Westin Hotel, 3rd Floor
Student and Guest Hospitality Area

8:00 a.m.—12:00 noon  Room 517A, MCC
ACVP and ASVCP Joint Plenary Session: Epigenetics:
Understanding the World of DNA Sequence-Independent Gene Expression
Session Chair: Marshall S. Scicchitano, MS
Session Co-Chair: Ken Frazier DVM, PhD, DABT, FIATP*
Supported by Charles River Laboratories

8:10 a.m.—9:05 a.m.
How Genes and Environment Interact
Randy Jirtle, PhD

9:05 a.m.—10:00 a.m.
Epigenetics: Biologic Targets, Biomarkers and Role in Disease
James Herman, MD

10:00 a.m.—10:30 a.m.  Room 517C, MCC
Refreshment Break and Focused Scientific Posters

10:30 a.m.—11:15 a.m.
DNA Methylation Mediating the Effects of Early Life Environment on Adult Phenotypes
Moshe Szyf, PhD

11:15 a.m.—12:00 noon
Reproductive Epigenetics: Preparing the Epigenome for the Next Generation
Jacquetta Trasler, MD, PhD

* ACVP Diplomate
8:00 a.m.–12:00 noon ..................................................Room 518C, MCC
**ASVCP Veterinary Laboratory Professionals Session II**
*Session Chair: Nicole Rosen, MT(ASCP)*

8:00 a.m.–10:00 a.m.
**Interpretation of Graphical Reports from the Advia 2120, Sysmex XT-2000iV and Cell-Dyn**
*Inger Lilliehöök, DVM, PhD, DECVP*
*Harold Tvedten, DVM, PhD, DECVP**

10:00 a.m.–10:30 a.m. .......................................................Room 517C, MCC

**Refreshment Break and Focused Scientific Posters**

10:30 a.m.–11:30 a.m.
**Comparison of Manual Total Cell Counts with Fresh versus Formalin Fixed Blood from Fish**
*Jill Arnold, MT(ASCP)*

11:30 a.m.–12:30 p.m.
**Roundtable Discussion: After-Hour/Call Back Testing and Staining Issues**

9:00 a.m.-5:00 p.m. ............................................................Room 521A, MCC

**Career Center**

9:30 a.m.–1:00 p.m. ..........................................................Room 517C, MCC

**Exhibits and Poster Session**

12:15 p.m.–1:15 p.m. ..........................................................Room 520C, MCC
**ACVP Clinical Pathology Examination Slide Review**

12:15 p.m.–1:15 p.m. ..........................................................Room 524A, MCC
**ACVP Gross and Microscopic Examination Slide Review**

12:15 p.m.–1:15 p.m. ..........................................................Room 518C, MCC

**Latin American Pathology Group Presents**

Freshwater Ornamental Fish Diseases in Colombia, SA
*Paola Andrea Barato, DVM, Specialty in Aquiculture, Candidate PhD, Owner and Scientific Head Corpavet, Bogota, Colombia and Assistant Professor, National University, Bogota, Colombia*

Lesions, Virus Distribution, and Forms of Bovine Viral Diarrhea
*Fabio Del Piero, DVM, PhD**

1:15 p.m.
**Afternoon on your own to explore Montréal**

1:30 p.m. - 4:30 p.m.
**ACVP Community Service Opportunity (advance registration required)**
Meet in the lobby of Le Westin Hotel at 1:15 p.m.

1:45 p.m.–3:00 p.m. ..........................................................Room 518A, MCC

**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. ........ Grande Place, LeWestin Hotel, 8th Floor
Veterinary Student and Resident Forum
Supported by Experimental Pathology Labs

5:15 p.m.–6:45 p.m. ........ Montreal B, LeWestin Hotel, 11th Floor
ASVCP Reception
(open to ASVCP members)

7:00 p.m.–9:00 p.m. .........................Room 518C, MCC
ASVCP Clinical Chemistry Review Session
Session Chair: Linda Vap, DVM*

7:00 p.m.–9:00 p.m. .........................Room 520C, MCC
Mystery Slide Review Session: Cattle Diseases
Session Chair: Murray E. Hines II, DVM, PhD*

Panelists:
Agathe Bédard, DVM, DES*
Claus Buergelt, DVM*
Fabio Del Piero, DVM, PhD*
Peter D. Kirkland, BVSc, PhD, FASM, PSM
Rob Moeller, DVM*
Francisco Uzal, DVM, FRVC, MSc, PhD*

MCC=Montreal Convention Center / Palais des congrès de Montréal

*ACVP Diplomate
7:00 a.m. ..................................................... 517C Foyer, MCC
Internet Station
Sponsored by VIN

7:00 a.m.-5:00 p.m. ...................................... Room 521B, MCC
Speaker Ready Room

7:30 a.m.-5:00 p.m. ................................. 517E Foyer, MCC
Registration

8:00 a.m.-5:00 p.m. .................. St-Sulpice, Le Westin Hotel, 3rd Floor
Student and Guest Hospitality Area

8:00 a.m.–12:00 noon .................. Room 524A, MCC
Concurrent Session I: Mitochondria in Health and Disease
Session Chair: Kevin J. French, PhD, DABT

8:00 a.m.–8:50 a.m.
Drug-Induced Mitochondrial Toxicity
Yvonne Will, PhD

8:50 a.m.–9:40 a.m.
Progress and Challenges in Understanding the
Mechanisms of Mitochondrial Disease
Eric Shoubridge, PhD

9:40 a.m.–10:10 a.m. .................. Room 517C, MCC
Refreshment Break and Focused Scientific Posters

10:10 a.m.–11:00 a.m.
Mitochondrial DNA Mutations and Disease
Lee-Jun Wong, PhD, CABMG, FACMG

11:00 a.m.–11:50 a.m.
Interaction of NLRs with Mitochondria
Jenny Ting, PhD

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

8:00 a.m.–12:00 noon .................. Room 519, MCC
Concurrent Session II: Emerging and Important Diseases of Cattle
Session Chair: Fabio Del Piero, DVM, PhD*

8:00 a.m.–8:30 a.m.
Lessons from the Abattoir
Yves Robinson, DVM, MSc

8:30 a.m.–9:15 a.m.
Respiratory Diseases of Cattle
Daniel Paulsen, DVM, PhD*

9:15 a.m.–9:45 a.m.
Indirect Immunohistochemistry for the Identification of Cattle Infectious Diseases
Fabio Del Piero, DVM, PhD*
9:45 a.m.–10:15 a.m. Refreshment Break and Focused Scientific Posters

10:15 a.m.–11:00 a.m.
Approaches to the Diagnosis of Emerging and Major Endemic Viral Diseases of Cattle
Peter D. Kirkland, BVSc, PhD, FASM, PSM

11:00 a.m.–11:20 a.m.
Bovine Viral Diarrhea
Edward J. Dubovi, MS, PhD

11:20 a.m.–12:00 noon
Enteric Clostridial Diseases of Cattle
Francisco Uzal, DVM, FRVC, MSc, PhD*

8:00 a.m.-12:00 p.m.
Clinical Pathology Focused Scientific Session II
Session Chair: A. Provencher Bolliger
Committee Members: D. DeNicola, C. Grimes, C. Wiedmeyer, and A. Wilcox

Platform Presentations

8:00 a.m.–8:15 a.m.
COMPARISON OF FLOW CYTOMETRY AND CANINE GLYCOPHORIN A ELISA FOR DETECTION OF MICROPARTICLES IN STORED CANINE BLOOD
A.G. Burton+, S.D. Owens, and M.S. Mellema
Keyword: Hematology

8:15 a.m.-8:30 a.m.
REPORTING AND INTERPRETING RED BLOOD CELL MORPHOLOGY: IS THERE A DISCONNECT BETWEEN CLINICAL PATHOLOGISTS AND CLINICIANS?
A. Newman+, M. Rishniw, and E. Behling-Kelly
Keyword: Hematology

8:30 a.m.-8:45 a.m.
EFFECTS OF RANAVIRUS INFECTION OF RED EARED SLIDERS (TRACHEMYS SCRIPTA ELEGANS) ON PLASMA PROTEIN CONCENTRATIONS AS DETERMINED BY AGAROSE GEL ELECTROPHORESIS
A.R. Moore+, M.C. Allender, and A.L. MacNeill
Keyword: Immune System

8:45 a.m.-9:00 a.m.
HIGH-TROUGHPUT SEQUENCING OF THE CANINE T CELL RECEPTOR REPERTOIRE
S.M. Keller+, P. Lott, I. Korf, and P.F. Moore
Keyword: Immune System

9:00 a.m.-10:00 a.m.
Invited Speaker
DISRUPTION OF EPIGENETIC MECHANISMS AND MALIGNANT HEMATOPOIESIS
E. Milot
10:00 a.m.-10:30 a.m. ..............................................Room 517C, MCC
REFRESHMENT BREAK—VISIT THE CLINICAL PATHOLOGY FOCUSED SCIENTIFIC POSTERS!

10:30 a.m.-10:45 a.m.
EFFECT OF DELAYED SERUM SEPARATION AND STORAGE TEMPERATURE ON RATE OF SERUM GLUCOSE CONCENTRATION DECLINE IN FOUR SPECIES
N.B. Collicutt+, B. Garner, M.S. Camus, and K. Hart
Keyword: Clinical Chemistry

10:45 a.m.-11:00 a.m.
EVALUATION OF NGAL AND RBP AS TUBULAR DAMAGE BIOMARKERS IN NATURALLY OCCURRING CANINE CHRONIC KIDNEY DISEASE
J.A. Hokamp+, M.B. Nabity, G.E. Lees, and R. Cianciolo
Keyword: Urinary System

11:00 a.m.-11:15 a.m.
KIDNEY INJURY MOLECULE-1: A POTENTIAL URINARY BIOMARKER IN CATS
S.K. Bland+, O. Côté, and D. Bienzle
Keyword: Urinary System

11:15 a.m.-11:30 a.m.
LUTEINIZING HORMONE IS NOT DIRECTLY INVOLVED IN THE PATHOGENESIS OF HYPERADRENOCORTICISM IN SCOTTISH TERRIERS
Keyword: Endocrine

11:30 a.m.-11:45 a.m.
A MYCOPLASMA OVIS AND CANDIDATUS MYCOPLASMA HAEMOVIS WHOLE GENOME SEQUENCING AND VALIDATION: A SINGLE BACTERIUM?
P.L. Deshuillers+, N.C. do Nascimento, A.P. Santos, and J.B. Messick
Keyword: Infectious Disease

11:45 a.m.-12:00 p.m.
THE EXPRESSION AND ACTIVITY OF SEROTONIN RECEPTORS IN CANINE OSTEOSARCOMA CELLS AND NORMAL CANINE OSTEOBLASTS
A.K. Viall+, C.P. Goodall, P.E. Chappell, and S. Bracha
Keyword: Neoplasia

+Competitor for the ASVCP Young Investigator Award
Platform Presentations

8:00 a.m.-8:15 a.m.  
**DEVELOPMENT OF A GROUPWARE SYSTEM TO ALLOW REAL-TIME FEEDBACK DURING LARGE GROUP INTERACTIONS IN AN ACADEMIC INSTITUTION**  
M.J. Burkhard, K. Matthias, R. Gaydos, J. Simmons, D.J. Stone, and L.J. King  
Keyword: General Topic

8:15 a.m.-8:30 a.m.  
**DESIGNING COMPETENCY-BASED RUBRICS TO MEASURE AND EVALUATE LEARNER OUTCOMES IN PATHOLOGY ROTATIONS**  
C. Fuentealba  
Keyword: General Topic

8:30 a.m.-8:45 a.m.  
**THE USE OF AN ONLINE DISCUSSION FORUM IN AN INTRODUCTORY PATHOLOGY COURSE FOR UNDERGRADUATE STUDENTS: PARTICIPATORY RATES WERE ASSOCIATED WITH BETTER LEARNING OUTCOMES**  
V.M. Wong, and R.A. Foster  
Keyword: General Topic

8:45 a.m.-9:00 a.m.  
**USE OF A TEAM-MAKER AND PEER EVALUATION WEBSITE TO FACILITATE GROUP ASSIGNMENTS**  
B.C. Garner, H.M. Brown, and M.S. Camus  
Keyword: General Topic

9:00 a.m.-10:00 a.m.  
**Invited Speaker**  
**CURRICULUM AND ASSESSMENT MODELS: IN SEARCH OF A PANACEA**  
S. Rhind

10:00 a.m.-10:30 a.m.  
**AN E-LEARNING COURSE IN GENETICALLY ENGINEERED MOUSE MODEL PATHOLOGY: THE EUROPEAN EXPERIENCE**  
Keyword: General Topic
11:45 a.m.-12:00 noon
EFFECTIVE USE OF ANIMATIONS IN VETERINARY PATHOLOGY INSTRUCTION
J. Green, K. Nelson, J. Chapes, M. Hoover, H. Wang, and D. Mosier
Keyword: None of the Above

8:30 a.m.–12:00 noon ..................................................Room 518C, MCC
ASVCP Veterinary Laboratory Professionals Session III
Session Chair: Nicole Rosen, MT(ASCP)

8:30 a.m.–9:30 a.m.
Canine DEA 1 Typing and Crossmatching: Various Testing Techniques
Urs Giger, PD, DACVIM, DECVP, DECVM-C

9:30 a.m.–10:30 a.m.
Direct Antiglobulin Testing with Various Techniques and Implications for IMHA
Urs Giger, PD, DACVIM, DECVP, DECVM-C

10:30 a.m.–11:00 a.m. .............................................Room 517C, MCC
Refreshment Break and Focused Scientific Posters
Final bids are due for the 2013 Silent Auction!

11:00 a.m.–12:00 noon
Advanced Techniques for the Diagnosis of Lymphoma and Leukemia
Anne Avery, VMD, PhD

9:00 a.m.–4:30 p.m. ............................................... Meet in the Lobby of
Very Important Pathologist Le Westin Hotel at 8:45 a.m.
Program

9:00 a.m.–5:00 p.m. ..............................................Room 521A, MCC
Career Center

9:30 a.m.–3:30 p.m. .................................................Room 517C, MCC
Exhibits and Poster Session

12:00 noon–1:30 p.m.
Lunch Break (on your own)

1:30 p.m.–5:00 p.m. .............................................Room 524A, MCC
ASVCP Case Review Session
Session Chair: Linda Vap, DVM*
Platform Presentations

1:30 p.m.-1:40 p.m.
COMPARISON OF CAT FEMORAL BONE MARROW FAT CONTENT QUANTIFIED BY ANALYTICAL ANALYSIS AND IMAGE ANALYSIS OF HISTOLOGIC SECTIONS
H.B. Hanley, C.R. Wilson, M.C. Mengel, D.E. Stallknecht, and E.W. Howerth
Keyword: General Topic

1:40 p.m.-1:50 p.m.
CONCURRENT ADENOVIRAL INFECTION AND PNEUMONIC MANNEHMIOSIS IN A HOLSTEIN CALF
E.R. Burrough, B.L. Wilberts, and J. Zhang
Keyword: Infectious Disease

1:50 p.m.-2:00 p.m.
CYTOLOGICAL AND HISTOLOGICAL CHARACTERIZATION OF A CUTANEOUS PHAEOHYPOMYCOSIS IN A CAT
M. Kummerfeld, S. Muller, N. Pantchev, and N. Kühn
Keyword: Skin

2:00 p.m.-2:10 p.m.
INTRAOCULAR CHOLESTEROL GRANULOMA ASSOCIATED WITH SYNCHYSIS SCINTILLANS IN A SHETLAND SHEEPDOG
Keyword: Eye and Ear

2:10 p.m.-2:20 p.m.
ORAL HISTIOCYTOMA-LIKE TUMORS IN 8 DOGS
J. Pinard, and T.J. Scase
Keyword: Neoplasia

2:20 p.m.-2:30 p.m.
POST-VACCINAL REOVIRUS INFECTION WITH HIGH MORTALITY IN 3-DAY-OLD BREEDER CHICKS
S. Chénier, M. Boullanne, and C. Gagnon
Keyword: Avian

2:30 p.m.-2:40 p.m.
PRESumptIVE CANE TOAD (RHINELLA MARINUS) TOXICITY IN SOUTHERN CASSOWARIES (CASUARIUS CASUARIUS)
J. Scott, R. Basham, A. Salim, R. Capon, S. Joseph, and L. Johnson
Keyword: Avian

2:40 p.m.-2:50 p.m.
PRIMARY RADIAL GRANULOMATOUS OSTEOMYELITIS DUE TO HALICEPHALOBUS GINGIVALIS IN A THOROUGHBRED HORSE
W.A. Baumgartner and C. Mochal
Keyword: Bone and Joint
2:50 p.m.-3:00 p.m.  PRIMARY RENAL RHABDOMYOSARCOMA IN A CORGI DOG  
K.R. Clarke, and A.J. Cooley 
Keyword: Neoplasia

3:00 p.m.-3:30 p.m.  REFRESHMENT BREAK – VISIT THE DIAGNOSTIC PATHOLOGY FOCUSED GROUP POSTERS

3:30 p.m.-3:40 p.m.  SERUM AMYLOID A AND INTERLEUKIN 1 AS AN EARLY MARKER OF FATIGUE IN ENDURANCE HORSES  
Keyword: General Topic

3:40 p.m.-3:50 p.m.  SPECTRUM OF HISTOLOGICAL AND PATHOLOGICAL FEATURES IN THE DISTAL THIRD METACARPAL BONE OF THOROUGHBRED RACEHORSES WITH AND WITHOUT CONDYLAR FRACTURES  
Keyword: Bone and Joint

3:50 p.m.-4:00 p.m.  DOG1 IS A SENSITIVE AND SPECIFIC IMMUNOHISTOCHEMICAL MARKER FOR DIAGNOSIS OF CANINE GASTROINTESTINAL STROMAL TUMORS (GISTs)  
D. Dailey, E.J. Ehrhart, T. Bass, and B. Powers 
Keyword: Neoplasia

4:00 p.m.-4:10 p.m.  ESTROGEN RECEPTOR EXPRESSION AND STAT3 ACTIVITY IN EQUINE MAMMARY TUMORS  
K. Hughes and A.K. Foote 
Keyword: Mammary

4:10 p.m.-4:20 p.m.  FATAL SARCOCYSTIS ENCEPHALITIS INFECTIONS IN DOVES IN TEXAS  
Keyword: Wildlife

4:20 p.m.-4:30 p.m.  STRESS CARDIOMYOPATHY SECONDARY TO SEVERE SOFT TISSUE TRAUMA IN A CHIMPANZEE  
B. Troan and M. Loomis 
Keyword: None of the Above

4:30 p.m.-4:40 p.m.  2012 AAVLD Award Recipient  
CANINE COLORECTAL POLYPS AND PROGRESSION TO MALIGNANCY; A RETROSPECTIVE STUDY OF 100 CANINE COLORECTAL EPITHELIAL POLYPOID TUMORS  
B. Butler and G. Duhamel
1:30 p.m.–5:00 p.m. .................................Room 524C, MCC
Experimental Disease Focused Scientific Session II
Session Chair: K. Gibson-Corley
Committee Members: M. Gagea, J. Greenlee (Past Chair), S. Monette, B. Plattner (Co-Chair), and R. Read
Supported by Amgen

Platform Presentations
Supported by Genentech

1:30 p.m.-2:30 p.m.
Invited Speaker
UNRAVELLING HOST-BACTERIAL INTERACTIONS IN IBD
K. Simpson

2:30 p.m.-2:45 p.m.
A GUINEA PIG MODEL OF TYPE 2 DIABETES AS A RISK FACTOR FOR TUBERCULOSIS
Keyword: Infectious Disease

2:45 p.m.-3:00 p.m.
SPECIFICITY OF MUC5B EXPRESSION IN HUMAN AND PORCINE AIRWAYS
D.K. Meyerholz, M.T. Maher-Sturm, P. Karp, L. Ostedgaard, D.A. Stoltz, and M.J. Welsh
Keyword: Respiratory System

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

3:30 p.m.-4.15 p.m.
Invited Speaker
CHARACTERIZATION OF THE ATTACHING AND EFFACING MECHANISM OF ESCHERICHIA COLI IN THE PIG INTESTINE USING IN VITRO, ORGAN CULTURE, AND TISSUE CULTURE INFECTION MODELS
J.M. Fairbrother

4:15 p.m.-4:30 p.m.
AVIAN INFLUENZA VIRUS AND CENTRAL NERVOUS SYSTEM (CNS) INFECTION IN FERRETS: A PROPOSED NOVEL ROUTE FOR CNS INVASION
I. Moore, H. Kenney, and K. Subbarao
Keyword: Infectious Disease

4:30 p.m.-4:45 p.m.
ROLE OF THE E211K PRION PROTEIN POLYMORPHISM IN BOVINE SPONGIFORM ENCEPHALOPATHY
Keyword: Nervous System
4:45 p.m.–5:00 p.m.
EFFECTS OF FORMALIN-INACTIVATED HUMAN RESPIRATORY SYNCYTIAL VIRUS (FI-hRSV) IN THE NEONATAL LAMB MODEL OF hRSV
Keyword: Respiratory System

1:30 p.m.–5:00 p.m. ..............................................Room 519, MCC
Industrial and Toxicologic Pathology Focused Scientific Session II
Session Chair: M. Sebastian
Committee Members: C. Colleton, M. Conner (Co-Chair), D. Ennulat, M. Hoenerhoff (Past Chair), G. Palanisamy, V. Sasseville, and B. Singh

Platform Presentations

1:30 p.m.–1:35 p.m.
OPENING REMARKS

1:35 p.m.–2:20 p.m.
Invited Speaker
REPRODUCTIVE PATHOLOGY: HAZARD MITIGATION IN NONCLINICAL SAFETY ASSESSMENT
J. Vidal

2:20 p.m.–2:40 p.m.
DEVELOPMENT OF AN IN VITRO MODEL OF ACQUIRED RESISTANCE TO TOCERANIB PHOSPHATE (PALLADIA®) IN CANINE MAST CELL TUMOR
Keyword: Neoplasia

2:40 p.m.–3:00 p.m.
MINOCYCLINE, A PUTATIVE NEUROPROTECTANT, IN THE SETTING OF DOXORUBICIN-CYCLOPHOSPHAMIDE CHEMOTHERAPY IN A XENOGRAFT MODEL OF TRIPLE-NEGATIVE BREAST CANCER
L. Himmel, M.B. Lustberg, A.C. DeVries, C.-S. Chen, C.L. Shapiro, and S.K. Kulp
Keyword: Toxicologic Pathology

3:00 p.m.–3:30 p.m. .....................................Room 517C, MCC
REFRESHMENT BREAK - VISIT THE INDUSTRIAL AND TOXICOLOGIC PATHOLOGY FOCUSED SCIENTIFIC POSTERS!

3:30 p.m.–4:20 p.m.
Invited Speaker
GENOMIC AND MECHANISTIC INSIGHTS INTO DRUG-INDUCED VASCULAR INJURY IN THE RAT
D.A. Dalmas Wilk

*ACVP Diplomate
4:20 p.m.-4:40 p.m.
**ORAL ADMINISTRATION OF SOLUBLE GUANYLYL CYCLASE ACTIVATORS TO RATS RESULTS IN OSTEOCLASTIC BONE RESORPTION AND REACTIVE NEW BONE FORMATION IN THE APPENDICULAR AND AXIAL SKELETON**
B. Homer, C.M. Bagi, C.J. Andresen, J.A. Warneke, L.O. Whiteley, D.L. Morris, and M.A. Tones
Keyword: Bone and Joint

4:40 p.m.-5:00 p.m.
**NOVEL MULTIFUNCTIONAL TUMOR-TARGETING NANOPORPHYRIN**
T. Lin, Y. Li, Y. Lo, Q. Chang, C-X. Pan, and K. Lam
Keyword: Neoplasia

5:15 p.m.–6:45 p.m. ................................................. Room 519, MCC
**ACVP Awards and Recognition Event**

7:00 p.m.–9:30 p.m. ................................................. Room 710, MCC
**ACVP Presidential Reception**

MCC=Montreal Convention Center / Palais des congrès de Montréal
Wednesday, November 20, 2013

7:00 a.m.–11:30 a.m. Room 521B, MCC
Speaker Ready Room

8:00 a.m.–1:00 p.m. 517E Foyer, MCC
Registration

8:00 a.m.–11:00 a.m. St-Sulpice, Le Westin Hotel, 3rd Floor
Student and Guest Hospitality Area

8:00 a.m.–12:00 noon 517C Foyer, MCC
Young Investigator Award Poster Session

8:00 a.m.–12:00 noon Room 524A, MCC
Concurrent Session III: The Microbiome: How the Billions of Organisms that Co-Inhabit Animals and Humans Maintain Health and Cause Disease
Session Chair: Michael Leach, DVM, PhD*

8:00 a.m.–8:10 a.m.
Introduction

8:10 a.m.–9:00 a.m.
An Introduction to the Microbiome and the Human Microbiome Project
Lita M. Proctor, PhD

9:00 a.m.–9:50 a.m.
The Respiratory Tract Microbiome in Health and Disease
Michael Surrette, PhD

9:50 a.m.–10:20 a.m. 517E Foyer, MCC
Refreshment Break

10:20 a.m.–11:10 a.m.
The GI Microbiome in Domestic Animals: Contributions to Health and Disease
Jan Suchodolski, PhD

11:10 a.m.–12:00 noon
The Skin Microbiome in Health and Disease: Humans, Dogs and Their Relationship
Aline Rodrigues Hoffmann, DVM, MS, PhD

8:00 a.m.–12:00 noon Room 518A, MCC
Mini-Symposium: Osteochondrosis
Session Chair: Cathy S. Carlson, DVM, PhD*

8:00 a.m.–8:45 a.m.
From König to the Present: What Have We Learned?
Cathy S. Carlson, DVM, PhD*

8:45 a.m.–9:45 a.m.
Current Understanding of the Pathogenesis and Risk Factors
Stina Ekman, DVM, PhD, DECVP

*ACVP Diplomate
9:45 a.m.–10:00 a.m. ........................................ 517E Foyer, MCC
Refreshment Break

10:00 a.m.–10:45 a.m.
CT and Micro-CT Investigations of Induced and Naturally Occurring Disease
Kristin Olstad, BVSc, PhD, CertVR

10:45 a.m.–11:45 a.m.
High Field MRI Investigations: Pathway to Diagnosing Subclinical Disease
Ferenc Tóth, DVM, PhD, DACVS

11:45 a.m.-12:00 noon
Where Do We Go From Here?
Cathy S. Carlson, DVM, PhD*

Co-Sponsored by ECVP

8:00 a.m.–12:00 noon .................................................. Room 519, MCC
Mini-Symposium: Gulf of Mexico Deepwater Horizon Oil Spill: Response, Research and Perspectives
Session Chair: Mac Law, DVM, PhD*

8:00 a.m.–8:10 a.m.
Introduction

8:10 a.m.–9:00 a.m.
The Effects of Crude Oil on Wild Fish Populations: Lessons Learned From the Exxon Valdez Oil Spill
Gary Marty, DVM, PhD*

9:00 a.m.–9:50 a.m.
Ecological Impacts During the Deepwater Horizon Oil Spill
Mace Barron, PhD

9:50 a.m.–10:10 a.m. .............................................. 517E Foyer, MCC
Refreshment Break

10:10 a.m.–11:00 a.m.
Marine Mammals, Oil, and the Gulf of Mexico: Perspectives on the Ongoing Unusual Mortality Event Investigation
Kathleen M. Colegrove, DVM, PhD*

11:00 a.m.–11:50 a.m.
Physiological and Genomic Footprint of the Deepwater Horizon Oil Spill in Gulf Killifish in Field and Laboratory Studies
Fernando Galvez, BSc, PhD

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

12:00 noon
Annual Meeting Ends
Quantitative Histomorphometry: Methods and Applications for Image Analysis and Stereology
Lars Pedersen, PhD

Quantitative histomorphometry is an important tool to assess morphological tissue changes due to drug treatment, aging, etc. from histological tissue sections. This workshop presents different methods to extract as much reliable quantitative information as possible from the tissue sections in a reproducible, precise, and efficient manner. Advantages and disadvantages of image analysis and stereology and when to apply each method will be addressed. The focus will be on practical guidelines and examples from pre-clinical and safety studies.

Practical Morphometry and Stereology for the Pathologist
Danielle L. Brown, DVM*

Practical Examples of Stereology to Address Questions Related to Toxicologic Pathology
Rosanna Mirabile, MS, HTL (ASCP)

Comparative Pathology Toolbox: Tools for Meaningful Assessment of Animal Models
Session Co-Chairs:
Marilene Paquet, DVM, MSc*
Lauren Richey, DVM, PhD*

Animal models have extensively expanded our knowledge of biology, physiology, genetics, mechanisms of disease, prevention, and treatments. However, the value of research animals as models of human disease continues to be questioned in literature and the news media. In the first Comparative Pathologist Consortium pre-meeting workshop held last year, pathologists raised questions: are we assessing models correctly? Are we effectively communicating the accuracy and limitations of the model? Are we over interpreting the data coming from these models? In this year’s workshop, experts in comparative pathology will address these questions directly by sharing tools that can be used in small academic labs to large scale research initiatives to define, manipulate, compare, and interpret data from models. We will discuss the use of non-rodent models such as zebrafish as well as new mouse resources developed to more closely model the human population. Experts will share how they use descriptive, semi-quantitative, and quantitative tools to validate models.

Introduction: Tools of Trade: Research Tools for Fair Evaluation of Comparative Pathology Models
Marilene Paquet, DVM MSc*
Lauren Richey, DVM, PhD*
1:10 p.m.-2:00 p.m.
Image Acquisition, Processing, Quantitative Analysis and Ethics
Claire Brown, PhD

2:00 p.m.-3:00 p.m.
Image Analysis for Pathologists: Getting Down to the Bare Bones
Alicia K. Olivier, DVM, PhD*

3:00 p.m.-3:15 p.m.
Refreshment Break

3:15 p.m.-4:15 p.m.
Modeling Human Disease: Methods for Getting Practical and Relevant Data From Animal Models
David K. Meyerholz, DVM, PhD, DACVM*

4:15 p.m.-5:15 pm
Toxicologic Pathology for Non-Toxicologic Pathologists
Jean-Martin Lapointe, DVM, MSc*
Focused Scientific Posters will be available for viewing in Room 517C at the Palais des congrès de Montréal at the following times:

Sunday, November 17 ........................................ 9:30 a.m.—4:30 p.m.
Monday, November 18 .................................... 9:30 a.m.—1:00 p.m.
Tuesday, November 19 ................................... 9:30 a.m.—3:30 p.m.

Poster Setup:
Sunday, November 17 ........................................ 7:00 a.m.—9:00 a.m.

Poster Teardown:
Tuesday, November 19 ..................................... 3:30 p.m.—4:30 p.m.

New this year: 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 morning and Tuesday afternoon
- **Industrial and Toxicologic Pathology Posters**: Refreshment breaks on Sunday afternoon 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 POSTER PRESENTATIONS**

C-1
A CASE OF PANCYTOPENIA IN A YOUNG MIXED-BREED CANINE ON THE ISLAND OF ST. KITTS
J. Beeler-Marfisi, F. Castillo Alcala, A.D. Loftis, R. Hall, S. Porter, B.M. Nibblett, and M.A. Thrall
Keyword: Infectious Disease

C-2
PREVALENCE OF HEMOPLASMAS AND ITS HEMATOLOGICAL ALTERATIONS IN BRAZILIAN PETS
Keyword: Clinical Pathology
C-3
OCURRENCE OF EHRLICHIA SPP. INFECTION IN DOGS FROM DISTRITO FEDERAL AND ITS CLINICAL PATHOLOGICAL ALTERATIONS
Keyword: Clinical Pathology

C-4
HEMATOLOGY OF BOBTAIL LIZARDS (TILIQUA RUGOSA) IN WESTERN AUSTRALIA
C.A. Moller, T. Gaál, and J.N. Mills
Keyword: Hematology

C-5
HEMATOLOGY RESULTS OF DOGS WITH LYMPHOMA AT INITIAL PRESENTATION
B.C. Rütgen, M. Hutter, and I. Schwendenwein
Keyword: Hematology

C-6
PROGNOSTIC VALUE OF IMMUNOCYTOCHEMISTRY IN CANINE LYMPHOMA
S.J. Tornquist, S.C. Helfand, M.E. Gorman, and J. Rigas
Keyword: Clinical Pathology

C-7
LACTATE DEHYDROGENASE ACTIVITY IN EQUINE ABDOMINAL FLUID: A PREDICTOR OF LIFE OR DEATH?
C. Smuts, J. Mills, R. Myles, C. Moller, G. D’Mello, and T. Gaál
Keyword: Clinical Pathology

C-8
AGE-DEPENDENT VARIATION IN THE CELLULAR COMPOSITION OF EQUINE BRONCHOALVEOLAR LAVAGE FLUID
S.J. Hostetter, J. Gilbertie, S. Wiechert, S.K. Clark, M. de Macedo and B.A. Sponseller
Keyword: Cytology

C-9
LABORATORY MARKERS OF INFLAMMATION: DETECTING CANINE C-REACTIVE PROTEIN WITH A POINT-OF-CARE TEST COMPARED TO MICROSCOPIC CHANGES IN NEUTROPHILS
Keyword: Clinical Pathology

C-10
ANTI-CHEMOTACTIC EFFECTS OF CANINE PROTEIN C ARE DEPENDENT ON THE ENDOTHELIAL PROTEIN C RECEPTOR (EPCR) EXPRESSED IN CANINE NEUTROPHILS
V.M. Wong, O. Côté, D. Bienzle, M.A. Hayes, and R.D. Wood
Keyword: Hematology

C-11
N-LINKED GLYCOSYLATION MAPPING OF CANINE PROTEIN C
V.M. Wong, D. Bienzle, M.A. Hayes, P. Taylor, and R.D. Wood
Keyword: Hematology
C-12
BONE MARROW AND HAEMATOLOGICAL EVALUATION OF 62 XENOGRAFTED CYNOMOLGUS MONKEYS
M.E. Gelain, A. Salmaso, L. Pintore, F. Fante, M. Boldrin, E. Cozzi, and L. Cavicchioli
Keyword: Primates

C-13
EFFECTS OF PHYSICAL AND CHEMICAL RESTRAINT ON HEMATOLOGICAL AND HEMOSTATIC VARIABLES IN CATS
Keyword: Clinical Pathology

C-14
VALIDATION OF THE ELECTRACHEMATIC CHROMOGENIC FACTOR VIII ASSAY IN MONKEY PLASMA USING THE AUTOMATED ACL ADVANCE COAGULATION ANALYZER
Keyword: Hematology

C-15
HEPARINASE MODIFIED THROMBELASTOGRAPHY: AN EX-VIVO EXPERIMENTAL STUDY IN HEALTHY CATS
B. Cuq, M. Dunn, and C. Bédard
Keyword: Clinical Pathology

C-16
INTRA-INDIVIDUAL VARIABILITY OF FELINE THROMBELASTOGRAPHY PARAMETERS AND EFFECT OF TISSUE FACTOR CONCENTRATION ON FELINE CITRATED WHOLE BLOOD
B. Cuq, C. Bédard, and M. Dunn
Keyword: Clinical Pathology

C-17
BIOLOGICAL VARIATION OF THROMBOELASTOGRAPHY VARIABLES IN CLINICALLY HEALTHY FEMALE HORSES
J.L. Scruggs, B. Flatland, and A. Reed
Keyword: Clinical Pathology

C-18
MICROVOLUME URINARY BIOMARKER ANALYSIS IN A RAT MODEL OF KIDNEY DISEASE
Keyword: Urinary System

C-19
COMPARISON OF GLUCOSE CONCENTRATION IN RAT AND MONKEY WHOLE BLOOD ANALYZED WITH THE STATSTRIP XPRESS GLUCOMETER AND SERUM ANALYZED WITH THE MODULAR ANALYTICS
M. Zamfir, F. Poitout, K. Larocque, L. Huard, and J. McCartney
Keyword: Clinical Chemistry
C-20
SERUM PROTEIN CONCENTRATIONS IN CAPTIVE BLUE-FRONTED AMAZON PARROT (AMAZONA AESTIVA) DETERMINED BY MEANS OF SODIUM DODECYL SULFATE-POLYACRYLAMIDE GEL ELECTROPHORESIS (SDS-PAGE)

E.M.S. Schmidt, A.C. Paulillo, R.R. Lange, J.J. Fagliari, and P.C. Silva

Keyword: Clinical Chemistry

C-21
SERUM PROTEIN CONCENTRATIONS IN MALE TURKEYS DETERMINED BY MEANS OF SDS-PAGE ELECTROPHORESIS


Keyword: Clinical Chemistry

C-22
LIPOPEROXIDATION AND CARDIAC MARKERS IN HORSES SUBMITTED TO LOW INTENSITY EXERCISE BEFORE AND AFTER ANTIOXIDANT SUPPLEMENTATION

L.A. Yonezawa, T.S. Barbosa, M.J. Watanabe, C.L. Marinho, J.L. Knaut, and A. Kohayagawa

Keyword: Cardiovascular

C-23
COMPARISON OF THREE COMMERCIAL ENZYME-LINKED IMMUNOASSAYS FOR DETERMINATION OF HISTAMINE IN SPRAGUE DAWLEY RAT SERUM

A. Farhad, M. Ameri, and D. Hollenback

Keyword: Clinical Pathology

C-24
A METHOD COMPARISON STUDY OF TWO ROUTINELY-USED METHODOLOGIES FOR PERFORMING NON-MAMMALIAN COMPLETE BLOOD COUNTS

M.S. Camus and S. Bush

Keyword: Clinical Pathology

C-25
AVOIDING TRANSFUSION REACTIONS IN DOGS: EVALUATION OF A COMMERCIAL AVAILBLE CROSS-MATCHING KIT


Keyword: Clinical Pathology

C-26
DETERMINATION OF ALLOWABLE TOTAL ERROR FOR HEMATOLOGY AND COAGULATION MEASURANDS

M.B. Nabity, M.S. Camus, K.E. Harr, B. Flatland, K. Freeman, and L.M. Vap

Keyword: Hematology

C-27
DISCOVERY OF A CARIBBEAN ARENAVIRUS IN LONE STAR TICKS FROM NORTH CENTRAL FLORIDA

K.A. Sayler, J. Lednicky, A.F. Barbet, W. Clapp, and A.R. Alleman

Keyword: Infectious Disease
C-28
DEVELOPMENT OF A SYBR GREEN QUANTITATIVE PCR FOR THE DETECTION OF RANGELIA VITALII
Keyword: Infectious Disease

The ASVCP abstracts are published in the Journal of Veterinary Clinical Pathology.

DIAGNOSTIC PATHOLOGY POSTER PRESENTATIONS

D-1+
HETEROTROPIC GASTRIC MUCOSA/WALL IN SMALL INTESTINE OF DOG
V. Kulshreshtha, K. Saile, and N. Wakamatsu
Keyword: Alimentary

D-2
CONGENITAL SPONGIFORM LEUKODYSTROPHY IN TWO FEMALE LITTERMATE GERMAN SHEPHERD PUPPIES
Z. Demeter+, D.W. Hague, D.A. Coleman, and S. Lezmi
Keyword: Nervous System

D-3
A RETROSPECTIVE STUDY OF THYMIC HEMORRHAGE IN 16 DOGS
S. Coutermarsh-Ott+ and E. Howerth
Keyword: Toxicologic Pathology

D-4
ALTERNARIA SP. SUPERFICIAL DERMATITIS IN A REHABILITATED HARBOR SEAL
S.J. Belton+, A. Tuttle, K. Marcheterre, D. Sutton, and S. Frasca, Jr.
Keyword: Skin

D-5
BILE DUCT DYSPLASIA IN A CALF
A. Ahamat Aboulmali+, D. Francoz, D. Achard, and C. Girard
Keyword: Liver and Pancreas

D-6
COMPREHENSIVE PATHOLOGIC EVALUATION OF EMBOLIZING COILS IMPLANTED FOR OCCLUSION OF A CANINE PATENT DUCTUS ARTERIOSUS
M.T. O’Brien+, T. Lancon, B. Weeks, M.W. Miller, and F.J. Clubb
Keyword: Cardiovascular

D-7
LISTERIA MONOCYTOGENES HEPATITIS IN A SERVAL CAT (LEPTAILURUS SERVAL): A CASE REPORT
C. Schmidt+, C. Miller, and G. Haldorson
Keyword: Infectious Disease
D-8
MULTIFOCAL IDIOPATHIC NODULAR BONE FORMATION IN THE DERMIS AND SUBCUTIS OF A CYNOMOLGUS MACAQUE (MACACA FASCICULARIS)
Keyword: Primates

D-9
OUTBREAK OF HISTOPHILUS SOMNI MYOCARDITIS AND LARYNGITIS IN FIVE STEERS
K. Horzmann+, Y. Jones-Hall, S. Lenz, and W. Wigle
Keyword: Infectious Disease

D-10
PREVALENCE OF INDIGESTIBLE FOREIGN BODY (PLASTIC) AND ITS PATHOLOGY IN THE RUMEN OF THE CATTLE IN ALGERIA
Z. Rouabah+ and M. Tlidjane
Keyword: Clinical Pathology

D-11
SMALL INTESTINAL MUSCULARIS THICKENING IN DOGS: CORRELATION OF HISTOLOGIC AND ULTRASONOGRAPHIC FINDINGS
M.M. Broman+, M.A. Miller, J.D. Ruth, and H.G. Heng
Keyword: Alimentary

D-12
SUBCUTANEOUS GRANULAR CELL TUMOR (FORMERLY GRANULAR CELL MYOBLASTOMA) IN A GUINEA PIG (CAVIA PORCELLUS)
L. Wennerdahl+, D. Shaw, and F. Williams III
Keyword: Neoplasia

D-13
DISSEMINATED HISTIOCYTIC SARCOMA IN A HORSE: A DIAGNOSIS BY IMMUNOCYTOCHEMISTRY AND CYTOCHEMISTRY
K. Nunez+, R. Raskin, M. Broman, and S. Lenz
Keyword: Cytology

D-14
EXTRASKELETAL COELOMIC OSTEOSARCOMA IN A PARAKEET
R. Blair+, M. Leissinger, J. Johnson, and F. Del Piero
Keyword: Neoplasia

D-15
FATAL SARCOCYSTIS ENCEPHALITIS INFECTIONS IN DOVES IN TEXAS
Keyword: Wildlife

D-16
FIRST POTENTIAL CASE OF NOCARDIOFORM PLACENTITIS IN A MARE FROM ALABAMA
S.M. Shrader+, J.C. Newton, and R.R. Wilborn
Keyword: Reproductive System
D-17
GUINEA PIG ADENOVIRUS
Keyword: Respiratory System

D-18
IDENTIFICATION OF A DISSEMINATED PSEUDALLESCHERIA BOYDII INFECTION IN A GOLDEN RETRIEVER USING DNA SEQUENCING
S. Aschenbroich+, S. Sanchez, J. O'Neill, S. Platt, and U. Blas-Machado
Keyword: Infectious Disease

D-19
INTESTINAL PYTHIOSIS IN A BLACK JAGUAR (PANTHERA ONCA)
N. Villafuerte-Ramirez, G. Martinez-Romero, L. Aviles-Serrano, L. Mendoza, and A. Alcaraz
Keyword: Infectious Disease

D-20
CONN’S SYNDROME IN CATS - A CASE REPORT
K. Dietert, J. Magenwirth, M. Deutschland, O. Kershaw, and R. Kopfleisch
Keyword: Endocrine

D-21
GLOSSAL SQUAMOUS CELL CARCINOMA IN SITU WITH CANINE ORAL PAILLOMAVIRUS INFECTION IN A DOG
D. Kojima and N. Wakamatsu
Keyword: Neoplasia

D-22
A NEW APPROACH TO APE POSTMORTEM CARDIAC EVALUATION
Keyword: Cardiovascular

D-23
CANINE DEGENERATIVE MYELOPATHY: A ROLE FOR ASTROCYTES
B. Bacci, P. Hodge, A. Hamilton, J.R. Sandy, and S.N. Long
Keyword: Nervous System

D-24
CONGENITAL ANOMALY OF KIDNEY AND URINARY TRACT (CAKUT) IN A RHODESIAN RIDGEBACK DOG
R. Cianciolo, G.E. Lees, and J. Stafford
Keyword: Urinary System

D-25
CONGENITAL HEPATIC FIBROSIS IN A HUACAYA ALPACA
M.D. Vieson, T. LeRoith, and T. Cecere
Keyword: Liver and Pancreas
D-26
CYTOLOGIC DIAGNOSIS OF PERKINSUS-LIKE PROTOZOAL INFECTION IN SOUTHERN LEOPARD FROGS (RANA SPHENOCEPHALA) IN GEORGIA
H.M. Brown, J.D. Brown, and M.K. Keel
Keyword: Infectious Disease

D-27
CYTOLOGY AND HISTOPATHOLOGY OF FELINE LUNG-DIGIT SYNDROME IN A CAT
P.J. Yang, C.I. Wu, D.B. Whitley, K. Peery, and E.M. Pieczarka
Keyword: Cytology

D-28
DIFFUSE LEPTOMENINGEAL HISTIOCYTIC SARCOMA IN THE CEREBROSPINAL FLUID OF A DOG
C. Cluzel, A. Ahamat Aboulmali, J. Parent, and C. Gara-Boivin
Keyword: Neoplasia

D-29
IMMUNOHISTOCHEMICAL EXPRESSION OF IONIZED CALCIUM-BINDING ADAPTER MOLECULE 1 (IBA1) IN CUTANEOUS HISTIOCYTIC PROLIFERATIVE AND INFLAMMATORY DISORDERS OF DOGS AND CATS
F. Pierezan, J. Mansell, A. Ambrus, and A. Rodrigues Hoffmann
Keyword: Skin

D-30
MORTALITY IN 8 SPECIES OF 14 ANSERIFORMES FROM A NORTH LOUISIANA AVIARY
K. Kim and F. Del Piero
Keyword: Avian

D-31
OCULAR LESIONS OF LEISHMANIASIS IN DOGS FROM BRAZIL
Keyword: Eye and Ear

D-32
PORCINE RESPIRATORY DISEASE COMPLEX IN SOUTHERN BRAZIL: PATHOGENS AND ASSOCIATED HISTOPATHOLOGY
Keyword: Respiratory System

D-33
POSTMORTEM FINDINGS IN DOGS TRAPPED IN A HOUSE FIRE
B. McHale and A.W. Stern
Keyword: None of the Above
D-34
TIMP-1 IMMUNOEXPRESSION IN CANINE CUTANEOUS MAST CELL TUMORS CORRELATES WITH HISTOPATHOLOGICAL GRADING
Keyword: Neoplasia

D-35
ULTRASTRUCTURAL AND HISTOCHEMICAL CHARACTERISTICS OF A LYOSOMAL STORAGE DISEASE IN A GERMAN SHORTHAIRED POINTER
C.E. Watson and M.D. Chalkley
Keyword: Nervous System

D-36
WEISELLA CONFUSA BACTEREMIA IN A FOAL
Keyword: None of the Above

D-37
MOLECULAR DETECTION OF FELINE AUTOSOMAL-DOMINANT POLYCYSTIC KIDNEY DISEASE IN CATS FROM DISTRITO FEDERAL, BRAZIL
Keyword: Clinical Pathology

+ACVP Young Investigator Award Competitor

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EDUCATION POSTER PRESENTATIONS

ED-1
THE ACVP MAINTENANCE OF CERTIFICATION PROGRAM
Keyword: None of the Above

ED-2
THE MPI RESEARCH/MICHIGAN STATE UNIVERSITY COMBINED RESIDENCY PROGRAM – A COLLABORATIVE TOXICOLOGIC PATHOLOGY TRAINING PROGRAM
K. Nelson, D. Patrick, and S. Fitzgerald
Keyword: Toxicologic Pathology

The ACVP abstracts will be published on the website at www.acvp.org.
E-1
THE EFFECT OF HYPERCHOLESTEROLEMIA ON JOINT HEALTH IN A SWINE MODEL
K. Kuroki, C.C. Bozynski, A.M. Stoker, M.H. Laughlin, and J.L. Cook
Keyword: Bone and Joint

E-2
A WINDOW TO THE PERIPHERAL NERVOUS SYSTEM: CORNEAL SENSORY NERVE FIBER LOSS IN SIV-INFECTED MACAQUES
L. Mangus+, J. Dorsey, J. Oakley, and J. Mankowski
Keyword: Nervous System

E-3
ADMINISTRATION OF VIRUS NEUTRALIZING ANTIBODIES IN THE PERIPHERY CAN CLEAR RABIES VIRUS FROM THE CNS ONCE THE BLOOD-BRAIN-BARRIER PERMEABILITY IS ENHANCED IN MICE
C. Huang+, Z. Li, G. Zhang, M. Zhou, H. Wu, and Z. Fu
Keyword: Infectious Disease

E-4
AGE-DEPENDENT SUSCEPTIBILITY TO MYCOBACTERIUM AVIUM SUBSPECIES PARATUBERCULOSIS INFECTION IN EXPERIMENTALLY INFECTED CALVES USING TWO DIFFERENT DOSES
R. Mortier, H. Barkema, J. Bystrom, O. Illanes, K. Orsel, R. Wolf, G. Atkins, and J. De Buck
Keyword: Infectious Disease

E-5
ATTENUATION OF GASTRIC TUMORIGENESIS ASSOCIATED WITH MNU AND HELICOBACTER PYLORI INFECTION IN OSTEOPONTIN DEFICIENT MICE
S-H. Lee+, J-W. Park, D-M. Go, H-K. Kim, and D-Y. Kim
Keyword: Neoplasia

E-6
BICARBONATE AVAILABILITY IN PORCINE VOCAL FOLD DEFENSE TO ACIDIC CHALLENGE
A. Durkes+, P. Snyder, and M. Sivasankar
Keyword: Alimentary

E-7
CANINE ADIPOSE DERIVED MESENCHYMAL STEM CELLS – A USEFUL THERAPEUTIC OPTION FOR DEGENERATIVE DISEASES OF THE CENTRAL NERVOUS SYSTEM?
F. Hansmann+, N. Jungwirth, T. Skripuletz, M. Stangel, and W. Baumgartner
Keyword: Nervous System

E-8
CELLULAR TARGETS OF THE MOUSE PAPILLOMAVIRUS ONCOPROTEINS
Keyword: Neoplasia
E-9
DEREGULATION OF THE RAS SIGNALING AXIS PROMOTES METASTASIS VIA THE NFKB PATHWAY IN THE PTEN/-/TP53-/I MOUSE PROSTATE CANCER MODEL
H.S. Tillman+, J.J. Yin, Y-N. Liu, M. Awan, O. Casey, P. Hynes, P. Martin, and K. Kelly
Keyword: Neoplasia

E-10
CONDITIONAL DELETION OF PTEN WITHIN MURINE UTERINE EPITHELIELM RESULTS IN ENDOMETRIAL CARCINOMA
C. Koivisto+, V. Bravo, A. Perez-Castro, K. La Perle, and G. Leone
Keyword: Respiratory System

E-11
HISTOPATHOLOGICAL AND IMMUNOHISTOCHEMICAL STUDY OF EXOCRINE AND ENDOCRINE PANCREATIC LESIONS IN AVIAN INFLUENZA A EXPERIMENTALLY-INFECTED TURKEYS
L. Cavicchioli, G. Beffagna, R. Zanetti, M. Mainenti, F. Frezza, F. Bonfante, C. Terregino, V. Zappulli, and I. Capua
Keyword: Avian

E-12
ULTRASTRUCTURAL STUDIES ON THE VF MUTANT RAT WITH RECOVERABLE TREMOR
Keyword: Nervous System

E-13
CHARACTERIZATION OF A NOVEL MOUSE MODEL OF RENAL DYSPLASIA WITH AN ENU-INDUCED MUTATION ON CHROMOSOME 8
Keyword: Urinary System

E-14
CHARACTERIZATION OF INTERFERON-EPSILON EXPRESSION IN THE RHESUS MACAQUE (MACACA MULATTA)
L.M. Kattenhorn+, E.A. Gengo, and A.D. Miller
Keyword: Immune System

E-15
CHARACTERIZING AND DIMINISHING AUTOFLUORESCENCE IN FORMALIN-FIXED PARAFFIN-EMBEDDED HUMAN RESPIRATORY TISSUE
A.S. Davis+, A. Richter, S. Becker, J.E. Moyer, A. Sandouk, O. Schwartz, and J.K. Taubenberger
Keyword: Respiratory System

E-16
COMPARISONS OF MONKEYPOX VIRUS CLADE KINETICS AND PATHOLOGY WITHIN THE PRAIRIE DOG ANIMAL MODEL
Keyword: Infectious Disease
E-17
DISRUPTED MATURATION OF OLIGODENDROCYTES IN THE VF MUTANT RAT
Keyword: Nervous System

E-18
GROSS AND HISTOLOGIC LESIONS ASSOCIATED WITH ACCIDENTAL INTRA-ARTERIAL XYLAZINE ADMINISTRATION IN A REINDEER (RANGIFER TARANDUS)
D. Woodburn and K. Singh
Keyword: Nervous System

E-19
IDENTIFICATION OF CRYOGLOBULIN-PRODUCING CELLS IN A CAPILLARIHA HEPATICA-INFECTED CRYOGLOBULINEMIA MOUSE MODEL
N. Aihara+, M. Yamada, J. Kamiie, and K. Shirota
Keyword: Immune System

E-20
INVESTIGATION OF THE BIOLOGY OF KERATOACANTHOMAS IN A MOUSE MODEL
K.N. Gibson-Corley, L.M. Rogers, A.J. Dupuy, and D.K. Meyerholz
Keyword: Skin

E-21
LECTIN HISTOCHEMISTRY ANALYSES DEMONSTRATE ALTERED GLYCANS IN MOUSE MODEL OF NONALCOHOLIC STEATOHEPATITIS
Keyword: Liver and Pancreas

E-22
LOSARTAN RE-PURPOSED AS NOVEL MONOCYTE MIGRATION INHIBITOR FOR TREATMENT OF CANCER METASTASIS
D.P. Regan, A.M. Guth, J. Dunham, M. Petri, and S.W. Dow
Keyword: Immune System

E-23
MICE HETEROZYGOUS FOR THE F508DEL MUTATION IN THE CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR ANION CHANNEL DISPLAY ATTENUATED CARDIOPULMONARY DYSFUNCTION AND LUNG INJURY AFTER INFLUENZA H1N1 INFECTION
Keyword: Respiratory System

E-24
MICROARRAY ANALYSIS OF ILEUM FROM PIGS EXPERIMENTALLY CHALLENGED WITH LAWSONIA INTRACELLULARIS
S.H. Smith, A. Wilson, I. Van Ettinger, N. MacIntyre, A.L. Archibald, and T. Ait-Ali
Keyword: Alimentary
E-25
MOLECULAR CHARACTERIZATION OF A NOVEL DIETARY MOUSE MODEL OF NONALCOHOLIC STEATOHEPATITIS
Keyword: Liver and Pancreas

E-26
MYCOBACTERIUM TUBERCULOSIS MAY PERSIST IN VIVO BY INFECTING BONE MARROW MESENCHYMAL STEM CELLS
S. Major, A. Campos-Neto, and G. Beamer
Keyword: Infectious Disease

E-27
MYOSTATIN/ACTRIIB ANTAGONISM REVERSES LOSS OF LEAN BODY MASS AND BODY WEIGHT IN SIV-INFECTED MACAQUES
Keyword: Muscle

E-28
NEUTROPHILS MAY CONTRIBUTE TO PULMONARY TUBERCULOSIS
S. Major and G. Beamer
Keyword: Infectious Disease

E-29
NON-SPECIFIC STRESSORS AS HOST DEFENSES
E.K. LeGrand and J. Day
Keyword: Immune System

E-30
NOVEL SV40 POLYOMAVIRUS INFECTION OF SPINAL CORD AND RETINA IN SIV-IMMUNOSUPPRESSED MACAQUE MONKEYS WITH PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY AND MENINGOENCEPHALITIS
S. Kaliyaperumal+ and S.V. Westmoreland
Keyword: Primates

E-31
OSTEOLYTIC SARCOMAS FROM MICE EXPRESSING HUMAN T-LYMPHOTROPHIC VIRUS-1 TAX VIRAL ONCOGENE
L.G. Lanigan, W.P. Dirksen, J.K. Simmons, T.L. Papenfuss, and T.J. Rosol
Keyword: Bone and Joint

E-32
PHENOTYPIC CHARACTERIZATION OF AN ALLELIC VARIANT OF THE MECHANISTIC TARGET OF RAPAMYCIN (MTOR)
J. Gary, S. Zhang, K. Zhang, W. DuBois, D. Tran, A. Michalowski, and B. Mock
Keyword: General Topic
E-33
PLAYING WITH FIRE: AN AGENT-BASED MODEL OF FEVER AND OTHER SYSTEMIC STRESSORS
E.K. LeGrand and J. Day
Keyword: Immune System

E-34
ROLE OF THE E211K PRION PROTEIN POLYMORPHISM IN BOVINE SPONGIFORM ENCEPHALOPATHY
Keyword: Nervous System

E-35
SIV-INDUCED AIDS AND DEATH IN RHESUS MACAQUES IN THE ABSENCE OF MACROPHAGE INFECTION
S.V. Westmoreland, A.P. Converse, K. Hrecka, H. Knight, M. Piatak, J. Lifson, K.G. Mansfield, J. Skowronski, and R.C. Desrosiers
Keyword: Immune System

E-36
SPINAL CORD NEURONAL DYSFUNCTION IN NAGLU-/ MICE
D. Collins, R. Wheeler, J.V. Rutkowski, and T. Nagy
Keyword: Nervous System

E-37
SPONTANEOUS COLITIS IN A RECOMBINANT INBRED LINE OF THE MURINE COLLABORATIVE CROSS
A. Rogala+ and V. Godfrey
Keyword: Alimentary

E-38
THE ROLE OF TLRS IN THE PATHOGENESIS OF GLOBOID CELL LEUKODYSTROPHY
Keyword: Nervous System

E-39
VALIDATION OF NORMAL HUMAN BRONCHIAL EPITHELIAL CELLS AS A MODEL FOR INFLUENZA A VIRUS INFECTIONS
Keyword: Respiratory System

E-40
THE ROLE OF PALATINE TONSILS AS A PRION ENTRY SITE IN CLASSICAL AND ATYPICAL SHEEP SCRAPIE
Keyword: Nervous System
E-41
THE IDENTIFICATION OF KINASE TARGETS IN EWING SARCOMA CELL LINES
A.C. McCalla+, P.J. Grohar, S.E. Martin, E. Buehler, S. Kim,
N.J. Caplen, J. Morris, M. Kunkel, D. Evans, A. Monks, B.A. Teicher, and L.J. Helman
Keyword: Neoplasia

+Competitor for the ACVP Young Investigator Award

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INDUSTRIAL AND TOXICOLOGIC PATHOLOGY POSTER PRESENTATIONS

T-1
COMBINATION OF MITOMYCIN C AND LOW DOSE SURAMIN INCREASES SURVIVAL IN AN OPTIMIZED ORTHOTOPIC MODEL OF URINARY BLADDER CARCINOMA IN MICE
J. Tremblay, C. Glover, L. Kolodzieyski, D. Lacroix, S. Thebaud, J. Godin-Ethier, A. Nelson, and V. Dimitriadou
Keyword: Toxicologic Pathology

T-2
EVALUATION OF THE EFFECT OF CASTRATION ON THE LIVER TRANSCRIPTOME OF MALE SPRAGUE DAWLEY-RATS
E. Blomme, A. Ditewig, M. Liguori, and W. Buck
Keyword: Liver and Pancreas

T-3
HISTOLOGIC AND ECHOCARDIOGRAPHIC CHARACTERIZATION OF CATECHOLAMINE-INDUCED CARDIOMYOPATHY IN DOGS WITH PHEOCHROMOCYTOMAS
E. Edmondson+, J. Bright, and E.J. Ehrhart
Keyword: Cardiovascular

T-4
INTERDIGITAL TRICHOGENIC DERMATITIS IN LABORATORY BEAGLES: ORIGINS IN FOLLICULAR TRAUMA
S. Morgan, E. Nunamaker, C.L. Medina, and W.R. Buck
Keyword: Skin

T-5
PARTICIPATION OF MACROPHAGE POPULATIONS IN GST-P-POSITIVE LIVER LESIONS INDUCED IN RATS BY REPEATED INJECTIONS OF THIOACETAMIDE (TAA)
K. Wijesundera+, T. Izawa, C. Katou-Ichikawa, A. Tennakoon, H. Murakami, H. Golbar, M. Kuwamura, and J. Yamate
Keyword: Liver and Pancreas

*ACVP Diplomate
T-6
PROMETASTATIC VARIANTS OF NOVEL MOUSE GASTRIC CANCER CELL LINE WITH CANCER STEM CELL PHENOTYPE AND RESISTANCE TO CYTOTOXIC CHEMOTHERAPY
Keyword: Neoplasia

T-7
THE NOVEL ENERGY-RESTRICTION MIMETIC AGENT OSU-CG5 REDUCES PROSTATE CANCER SEVERITY IN TRANSGENIC ADENOCARCINOMA OF THE MOUSE PROSTATE (TRAMP) MICE
Keyword: Neoplasia

T-8
DEVELOPMENT OF AN IN VITRO MODEL OF ACQUIRED RESISTANCE TO TOCERANIB PHOSPHATE (PALLADIA®) IN CANINE MAST CELL TUMOR
Keyword: Neoplasia

T-9
CONTRIBUTION OF THROMBIN AND PLATELETS TO ACETAMINOPHEN HEPATOTOXICITY IN MICE
Keyword: Toxicologic Pathology

T-10
CHARACTERIZATION OF THE TUMOR SPECTRUM ARISING IN HZE IRRADIATED OUTBRED MICE
E. Edmondson+, C. Fallgren, E. Garcia, D. Kamstock, and M. Weil
Keyword: Neoplasia

T-11
ASSESSING POTENTIAL THERAPIES FOR DUCHENNE MUSCULAR DYSTROPHY USING IN VIVO MUSCLE ELECTROPHYSIOLOGY IN THE MDX MOUSE
R. Terry+ and D.J. Wells
Keyword: Muscle

T-12
MINOCYCLINE, A PUTATIVE NEUROPROTECTANT, IN THE SETTING OF DOXORUBICIN-CYCLOPHOSPHAMIDE CHEMOTHERAPY IN A XENOGRAFT MODEL OF TRIPLE-NEGATIVE BREAST CANCER
L. Himmel, M.B. Lustberg, A.C. DeVries, C.-S. Chen, C.L. Shapiro, and S.K. Kulp
Keyword: Toxicologic Pathology

+Competitor for the ACVP Young Investigator Award.
^Competitor for the STP Student Poster Award.

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NATURAL DISEASE POSTER PRESENTATIONS

N-1
MODULATION OF COAGULATION AND FIBRINOLYSIS BY CARBON MONOXIDE AND NITRIC OXIDE IN HEALTHY AND DISEASED DOGS: A THROMBOELASTOGRAPHIC ANALYSIS
S. Yoo+ and C. Olver
Keyword: Clinical Pathology

N-2
GENE EXPRESSION AND TISSUE TROPISM OF NATURAL RACCOON POLYOMAVIRUS (RACPYV) INFECTION
M. Church+, F. Dela Cruz Jr., and P. Pesavento
Keyword: Wild life

N-3
IDENTIFICATION OF BABESIA SPP. INFECTIONS IN WILD CERVIDS OF SASKATCHEWAN, CANADA
K.M. Pattullo+, H.J. Burgess, C.A. Rainbow, B.P. Lockerbie, and T.K. Bollinger
Keyword: Wildlife

N-4
PROGNOSTIC SIGNIFICANCE OF PAKT, E-CADHERIN, AND KI-67 EXPRESSION IN FELINE MAMMARY CARCINOMAS
Keyword: Mammary

N-5
SURVEY OF RESPIRATORY PATHOLOGY IN WILD URBAN RATTUS NORVEGICUS AND RATTUS RATTUS
J.L. Rothenburger+, C.B. Clifford, F.A. Leighton, P.M. Treuting, and C.G. Himsworth
Keyword: Respiratory System

N-6
BONE METASTASES FROM CANINE TRANSITIONAL CELL CARCINOMA
V.A. Charney+, M.A. Miller, H.G. Heng, and D.W. Knapp
Keyword: Neoplasia

N-7
DEVELOPMENT OF AN INDIRECT ELISA FOR DETECTING SERUM ANTIBODIES TO LEPORID HERPESVIRUS-4 USING A NOVEL RECOMBINANT GLYCOPROTEIN G
J. Sunohara-Neilson+, É. Nagy, S. Carman, and P.V. Turner
Keyword: Infectious Disease

N-8
ESTABLISHING DETECTION METHODS FOR A CHIMERIC ANTIGEN RECEPTOR FOR CANCER IMMUNOTHERAPY IN DOGS
S.M. Keller+, M. Schjaerff, R. Reb hun, and P.F. Moore
Keyword: Neoplasia
N-9 EVIDENCE OF OXIDATIVE INJURY IN PIGS WITH MELANOSIS COLI
B. Wilberts+, K. Schwartz, P. Gauger, and E. Burrough
Keyword: Alimentary

N-10 EXPRESSION OF MICROSOMAL PROSTAGLANDIN SYNTHASE-1 (MPGES-1) IN NORMAL TISSUES AND IN MAMMARY TUMORS IN FEMALE DOGS
B. Pouleur-Larrat+, S. Larrat, K. Sayasith, and M. Doré
Keyword: Mammary

N-11 LOCAL IMMUNE RESPONSES IN CYTAUXZOOON FELIS-INFECTED DOMESTIC CATS
K. Frontera-Acevedo+ and K. Sakamoto
Keyword: Immune System

N-12 MENINGOENCEPHALITIS IN A DOG DUE TO TRICHOSPORON MONTEVIDEENSE
L.K. Bryan+, S.C. Kerwin, B.L. Wickes, S.D. Lawhon, and B.F. Porter
Keyword: Nervous System

N-13 THE PREVALENCE OF EHRLICHIA CHAFFEENSIS, EHRLICHIA EWINGII, AND RICKETTSIA SPECIES IN HOST-SEEKING AMBLYOMMA AMERICANUM IN NORTH CENTRAL FLORIDA
S.S.K. Beatty+, K.A. Sayler, A.D. Loftis, and A.R. Alleman
Keyword: Infectious Disease

N-14 PROGNOSTIC VALUE OF HISTOLOGIC GRADING FOR FELINE MAMMARY CARCINOMA: A RETROSPECTIVE SURVIVAL ANALYSIS
Keyword: Mammary

N-15 PROGRAMMED DEATH 1 (PD-1) - MEDIATED T CELL EXHAUSTION CAUSES IMPAIRED PHAGOCYTE FUNCTION DURING CANINE LEISHMANIASIS
K.J. Esch+, R. Juelsgaard, P.A. Martinez, D.E. Jones, and C.A. Petersen
Keyword: Infectious Disease

N-16 SIMILARITIES BETWEEN CANINE AND HUMAN MUCOSAL MELANOMA INDICATE PROMISE FOR SURROGATE PRE-CLINICAL MODELING IN DOGS
H.T. Michael+, S.M. Hewitt, and R.M. Simpson
Keyword: Neoplasia
N-17
ATYPICAL MYELOENCEPHALOPATHY WITH CEROID LIPOFUSCINOSIS IN A TENNESSEE WALKER HORSE
K. Sakaguchi, D. Kojima, K.N. Shell, F. Del Piero, R. McConnico, and N. Wakamatsu
Keyword: Nervous System

N-18
CAUSES OF MORTALITY IN LIVE EXPORT CATTLE ON LONG HAUL VOYAGES
Keyword: Respiratory System

N-19
CHARACTERIZATION OF THE NONSTRUCTURAL PROTEINS OF CANINE MINUTE VIRUS
O. Fasina, L. Sukhu, and D. Pintel
Keyword: Infectious Disease

N-20
DESCRIPTION OF THE PATHOLOGY ASSOCIATED WITH SUDDEN DEATH OF YOUNG FELINES IN SHELTERS
D. Ordanes and A. Alcaraz
Keyword: Infectious Disease

N-21
EQUINE HERPESVIRUS-5 (EHV-5) ASSOCIATED INTERSTITIAL PNEUMONIA IN FOALS
M. Komine, S. Bolin, T. Mullaney, A. Lim, M. Okamoto, H. Taniyama, R. Kirisawa, and K. Williams
Keyword: Respiratory System

N-22
HEREDITARY OSTEOGENESIS IMPERFECTA IN FINNISH LAPPHUND
M. Anttila, K. Vainio-Siukola, and G. Vidren
Keyword: Bone and Joint

N-23
PULMONARY VENO-OCCLUSIVE DISEASE IN DOGS
K. Williams, S. Priestnall, I. Moore, and A. Jutkowitz
Keyword: Respiratory System

N-24
RENAL EXPRESSION OF ALPHA-ENOLASE IN CATS WITH CHRONIC KIDNEY DISEASE
S. McLeland and M. Lappin
Keyword: Urinary System

N-25
UNUSUAL FACIAL PRESENTATION OF HALICEPHALOBUS GINGIVALIS IN A MARE FROM COSTA RICA
A. Berrocal, A. Aguilar Chavarria, and J.B. Oliveira
Keyword: Skin
N-26
CACTUS BUCKS, TESTICULAR LESIONS, AND EPIZOOTIC HEMORRHAGIC DISEASE IN COLORADO MULE DEER
  K. Fox, L. Wolfe, and B. Diamond
  Keyword: Wildlife

N-27
COMPARISON OF THE VIRAL LOAD OF EQUUS CABALLUS PAPILLOMAVIRUS TYPE 2 (ECPV-2) DNA IN EQUINE SQUAMOUS CELL CARCINOMAS AND NON-CANCEROUS TISSUES USING QUANTITATIVE PCR
  C. Knight, M. Dunowska, J. Munday, J. Peters-Kennedy, and B. Rosa
  Keyword: Infectious Disease

N-28
CUTANEOUS LYMPHOCYTOSIS IN 5 DOGS
  D.R. Rissi and P.M. Rakich
  Keyword: Skin

N-29
IMMORTALIZED SHEEP MICROGLIA ARE PERMISSIVE TO A DIVERSE RANGE OF RUMINANT VIRUSES
  J.B. Stanton, J.F. Muñoz-Gutierrez, J.F. Evermann, J.F. Ridpath, and D.S. Bradway
  Keyword: Infectious Disease

N-30
STUDY OF THE HYPPO-TRANSUDER TAZ IN CANINE AND FELINE MAMMARY TUMORS: PRELIMINARY DATA
  V. Zappulli, S. Gasparini, G. Beffagna, M. Mainenti, L. Cavicchioli, and M. Castagnaro
  Keyword: Mammary

N-31
TUBULOPROTEINOSIS IN AN EMACIATED LIVE STRANDED HUMPBACK WHALE (MEGAPTERA NOVAEANGLIAE)
  T.D. Redford, P. Cottrell, L. Akhurst, M. Haulena, and S. Raverty
  Keyword: Wildlife

+Competitor for the ACVP Young Investigator Award

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Sunday, November 17 ........................................... 9:30 a.m.–4:30 p.m.
Monday, November 18 .......................................... 9:30 a.m.–1:00 p.m.
Tuesday, November 19 ......................................... 9:30 a.m.–3:30 p.m.

Poster Setup:
Sunday, November 17 ........................................... 7:00 a.m.–9:00 a.m.

Poster Teardown:
Tuesday, November 19 ......................................... 3:30 p.m.–4:30 p.m.

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**CLINICAL CASE REPORT/SERIES**

**Veterinary Student Poster #1**

**MICROSCOPIC LESIONS AND DIFFERENT TYPES OF CLOSTRIDIUM PERFRINGENS AND THEIR RELATED TOXINS BY SANDWICH ELISA IN CATTLE**

F. Sasani1*, H. Marzban1, J. Javanbakht1, F. Moosakhani2 and M. Imanparast3

1Faculty of Veterinary Medicine, Department of Pathology, Tehran University, Tehran, Iran; 2Faculty of Veterinary Medicine, Tehran University, Tehran, Iran; and 3Faculty of Veterinary Medicine, Department of Microbiology Sciences, Islamic Azad University, Branch of Karaj, Karaj, Iran

**Veterinary Student Poster #2**

**ESTABLISH REFERENCE INTERVAL FOR VOIDED URINE SAMPLES IN HEALTHY ADULT ALPACAS**

W.H. Brown1, L. Butler2, C. Wang3, and H.A. Flaherty2

Departments of Veterinary Clinical Pathology2, Veterinary Diagnostic and Production Animal Medicine3, and College of Veterinary Medicine1

**Veterinary Student Poster #3**

**TRANSIENT MYELOPEROXIDASE DEFICIENCY IN A DOG IDENTIFIED BY ADVIA® 120 TECHNOLOGY**

K.M. Whipple, J.H. Meinkoth, and A.J. Jarchow

Center for Veterinary Health Sciences, Oklahoma State University, Stillwater, OK

**Veterinary Student Poster #4**

**PATHOLOGY OF HAEMONCHUS CONTORTUS IN NEW WORLD CAMELIDS IN GEORGIA: A RETROSPECTIVE STUDY**


Departments of Pathology, Large Animal Medicine, and Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens, GA
Veterinary Student Poster #5
THE DENTAL PATHOLOGY OF THE CALIFORNIA SEA LION (ZALOPHUS CALIFORNIANUS)
N.L. Sinai, R.H. Dadaian, and F.J.M. Verstraete
Department of Surgical and Radiological Sciences, School of Veterinary Medicine, University of California, Davis, CA

Veterinary Student Poster #6
COCCIDIOIDOMYCOSIS IN NONHUMAN PRIMATES: A CASE SERIES AND REVIEW OF THE LITERATURE
L.C. Mullaney1,2, M.A. Owston2, and E.J. Dick Jr.2
1Department of Biomedical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY, and 2Department of Pathology, Southwest National Primate Research Center, Texas Biomedical Research Institute, San Antonio, TX

Veterinary Student Poster #7
SILICA UROLITHIASIS IN DOGS FROM THE CARIBBEAN ISLAND OF ST. KITTS
S. Niesz-Ent, M. Arauz, and C. Chapman
Department of Pathobiology, Ross University School of Veterinary Medicine, St. Kitts, West Indies

Veterinary Student Poster #8
COMPARISON OF MANNHEIMIA HAEMOLYTICA ISOLATES FROM AN OUTBREAK OF BOVINE RESPIRATORY DISEASE
S. Rainbolt, M. Moore, B. Lubbers, R. Davis, D. Pillai, and D. Mosier
Department of Diagnostic Medicine and Pathobiology, College of Veterinary Medicine, Kansas State University, Manhattan, KS

Veterinary Student Poster #9
FATAL STREPTOCOCCUS ANGINOSIS-ASSOCIATED PNEUMONIA IN A CAPTIVE SUMATRAN ORANGUTAN (PONGO ABELII)
E.A. Ihms, J.B. Daniels, C.S. Koivisto, M.T. Barrie, and D.S. Russell
Department of Veterinary Biosciences, The Ohio State University College of Veterinary Medicine, Columbus OH and Columbus Zoo and Aquarium, Powell OH

Veterinary Student Poster #10
UNUSUAL PRESENTATION OF PSEUDOMYCETOMA IN A DOMESTIC LONGHAIR CAT
L. Huang and K. Zimmerman
Department of Biomedical Sciences and Pathobiology, Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA

Veterinary Student Poster #11
CRYPTOCOCCUS IN A FERAL CAT
E. Lane, S. Jolissaint, D. Ordanes, and A. Alcaraz
Department of Pathology, College of Veterinary Medicine, Western University of Health Sciences, Pomona, CA

Veterinary Student Poster #12
MICROCYSTIC MENINGIOMA IN A ST. KITTS AFRICAN GREEN MONKEY [CHLOROCEBUS AETHIOPIUS SABAEOUS]
A. Nichols1, M. Arauz1, A. Beierschmitt1,2, F.M.K. James2, and J. Beeler-Marfisi1
1Department of Biomedical Sciences, Ross University School of Veterinary Medicine, St. Kitts; 2Behavioural Science Foundation, St. Kitts; and 3Ontario Veterinary College, University of Guelph, Canada
Veterinary Student Poster #13
HISTOLOGICAL CHARACTERIZATION OF SIBERIAN STURGEON (ACIPENSER BAERII) LYMPHOCYTIC CELLS USING IN SITU HYBRIDIZATION AND IMMUNOHISTOCHEMISTRY
J. Munhofen, J. Zhang, S. Fogelson, and C. Brown
Department of Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA

Veterinary Student Poster #14
CYTOGENETIC MONITORING OF TREATMENT RESPONSE IN CANINE CHRONIC MYELOID LEUKEMIA
S.C. Roode, L. Borst, K. Kow, R.J. Milner, and M. Breen
Department of Molecular Biomedical Sciences and Department of Population Health and Pathobiology, College of Veterinary Medicine, NC State University, Raleigh, NC, and Department of Small Animal Clinical Sciences, College of Veterinary Medicine, University of Florida, Gainesville, FL

Veterinary Student Poster #15
COMPARISON OF REPORTED PROGNOSTIC DATA TO ACTUAL SURVIVAL TIMES FOR SOFT TISSUE SARCOMAS IN DOGS
A. Lisankis, M. Ackermann, J. Hostetter, E. Whitley, M. Yaeger, R. Myers, J. Haynes, and A. Fales-Williams
Department of Veterinary Pathology, College of Veterinary Medicine, Iowa State University, Ames, IA

Veterinary Student Poster #16
THE EFFECT OF UREA ON THE REFRACTOMETRIC TOTAL PROTEIN MEASUREMENT IN DOGS AND CATS WITH AZOTEMIA
K. Young, M. Leissinger, V. LeDonne, B.J. Grasperge, and S.D. Gaunt
Department of Pathobiological Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA

Veterinary Student Poster #17
CUTANEOUS BENIGN IRIDOPHOROMA IN A SPADEFOOT TOAD (SPEA SPP.)
H.M. Atkins¹, V. Madden², S. Churchill, and V. Godfrey²
¹Texas A&M College of Veterinary Medicine, College Station, TX and ²Department of Laboratory Animal Medicine, University of North Carolina-Chapel Hill

Veterinary Student Poster #18
HISTOLOGICAL AND MOLECULAR PREVALENCE OF YERSINIA ENTEROCOLITICA IN MICE, RATS, AND MONGOOSE IN A CAPTIVE AFRICAN GREEN MONKEY FARM IN ST. KITTS, WEST INDIES
D. Recinos¹, M. Arauz¹, O. Illanes¹, A. Beierschmitt¹, S. Rostad¹, M. McCoy¹, A. Loftis¹, D. Boruta¹, D. Spencer¹, and E. Soto¹
¹Department of Clinical Sciences, Ross University School of Veterinary Medicine, Basseterre, St. Kitts, West Indies and ²Department of Behavioral Sciences, Behavioural Science Foundation, St. Kitts, West Indies
Veterinary Student Poster #19
A CASE OF TUBERCULOSIS IN A NORTHERN FULMAR FROM THE NORTHWEST ATLANTIC
N. Brochu¹, P-Y. Daoust¹, and Z. Lucas²
¹Canadian Cooperative Wildlife Health Centre, Department of Pathology & Microbiology, Atlantic Veterinary College, University of Prince Edward Island, Charlottetown, Prince Edward Island, Canada and ²Halifax CRO, Halifax, Nova Scotia, Canada

Veterinary Student Poster #20
HEPATOCELLULAR CARCINOMA AND DUODENAL ADENOMA IN AN AFRICAN GRASS RAT (ARVICANTHUS Niloticus)
A.T. Massa¹, D. Agnew¹,² and S.J. French¹,²
¹College of Veterinary Medicine, Michigan State University, East Lansing, MI and ²Department of Pathobiology and Diagnostic Investigation, Diagnostic Center for Population and Animal Health, Michigan State University, Lansing, MI

Veterinary Student Poster #21
CHARACTERIZATION OF PANCREATIC NODULES FROM TWO SPECIES OF TELEOSTEAN FISH: SHORTHORN SCULPIN (MYXOCEPHALUS SCORPIUS) AND ATLANTIC WOLFFISH (ANARHICHAS LUPUS)
J.S. Fortin, A.D. Dallaire, and M.-O. Benoit-Biancamano
Department of Pathology and Microbiology, Faculty of Veterinary Medicine, University of Montreal, Saint-Hyacinthe, QC, Canada

Veterinary Student Poster #22
GENETICALLY DISTINCT ORAL PAPILLOMAVIRUSES IN SYMPATRIC POPULATIONS OF COYOTES AND DOMESTIC DOGS
M.W. Zabrodski, M. Eschbaumer, M. Li, M. Czub, A. Massolo, O.M. Slater, S. Liccioli, C.G. Knight, and P.J. Duignan
Department of Ecosystem and Public Health, Faculty of Veterinary Medicine, University of Calgary

Veterinary Student Poster #23
CYTAUXZOOON FELIS CYTOCHROME B PHARMACOGENOMICS: DEVELOPMENT OF A RAPID CYTOCHROME B GENOTYPING ASSAY USING HIGH RESOLUTION MELT ANALYSIS
M.E. Schreeg¹, H.S. Marr¹, J. Tarigo¹, L.A. Cohn², M.G. Levy¹, and A.J. Birkenheuer¹
¹Department of Clinical Sciences, North Carolina State College of Veterinary Medicine, Raleigh, NC and ²Department of Veterinary Medicine and Surgery, University of Missouri College of Veterinary Medicine, Columbia, MO

Veterinary Student Poster #24
MANNHEIMIA HAEMOLYTICA IN A TENNESSEE WALKING HORSE
D. Butler, S. Sturdivant, and E. Gilbreath
Department of Pathobiology, Tuskegee University School of Veterinary Medicine, Tuskegee, AL

Veterinary Student Poster #25
VIRAL GRANULOMATOUS DISEASE IN A MARE
A. Myers¹, R. Wilkes², K. Williams³, and J. Edwards¹
¹Department of Veterinary Pathobiology, Texas A&M University, College Station, TX; ²Department of Biomedical and Diagnostic Sciences, University of Tennessee, Knoxville, TN; and ³Department of Pathobiology and Diagnostic Investigation, Michigan State University, East Lansing, MI
Veterinary Student Poster #26
SMALL COLON GASTROINTESTINAL STROMAL TUMOR (GIST) WITH SMALL COLON INTUSSUSCEPTION AND RECTUM AND SMALL COLON PROLAPSE IN A MULE
M.V. Bianchi1, N. Fowlkes2, K. Kim2, and F. Del Piero2
1 Setor de Patologia Veterinária, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil and 2 Department of Pathobiological Sciences, Louisiana State University, Baton Rouge, LA

Veterinary Student Poster Abstract #27
THYMOMA IN A DWARF RABBIT
C.E. Alex1, K.M. Boes1, M. McCormick2, and T.E. Cecere1
1 Department of Biomedical Sciences and Pathobiology, Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, VA and 2 Companion Animal Clinic, Blacksburg, VA

Veterinary Student Poster #28
LONE KATAHDIN EWE WITH COPPER TOXICITY FROM A HERD OF 60
J. Armstrong, C. Benson, B. Oscarson, and L. Sharkey
Department of Clinical Sciences, University of Minnesota

Veterinary Student Poster #29
AVIAN TUBERCULOSIS AND PORCUPINE QUILL TRAUMA IN A NORTHERN GOSHAWK (ACCIPITER GENTILIS)
K. Pon, M. Lejeune, O.M. Slater, C. Wagg, M. Kovacs, and P.J. Duignan
Department of Ecosystem and Public Health, University of Calgary Veterinary Medicine, Calgary, Alberta, Canada

Veterinary Student Poster #30
PROTOZOAL INFESTATION OF THE YOLK SAC IN ANGELFISH FRY
E.R. Cornwell, R.G. Getchell, G.A. Wooster, and P.R. Bowser
Aquatic Animal Health Program, Department of Microbiology and Immunology, College of Veterinary Medicine, Cornell University, Ithaca, NY

Veterinary Student Poster #31
SARCOCYSTIS CANIS-ASSOCIATED NECROTIZING HEPATITIS IN A BLACK BEAR (URSUS AMERICANUS)
G. Moll1, T. Thaiwong2, A. Lim2, and D. Sledge2
1 College of Veterinary Medicine and 2 Diagnostic Center for Population and Animal Health, Michigan State University, Lansing, MI

Veterinary Student Poster #32
BOXER DOGS AND DNA MISMATCH REPAIR: INVESTIGATING SINGLE NUCLEOTIDE POLYMORPHISMS IN MSH2 AND MLH1
E.C. Alloway and M.L. Hauck
Department of Clinical Sciences, North Carolina State University College of Veterinary Medicine
Veterinary Student Poster #33
PREVALENCE OF INCIDENTAL ENDOCRINE PATHOLOGY IN DOGS
A.M. Dieterly, S.J. Sharpe, B.L. Njaa, S.F.E. Cole, A. Van Griethuysen, and C.G. Lamm
Department of Anatomic Pathology, Veterinary Diagnostic Services, University of Glasgow, Scotland, UK and IDEXX Laboratories, Inc.

Veterinary Student Poster #34
CLINICAL AND HISTOLOGIC FEATURES OF EIGHT CASES OF CANINE GALLBLADDER NEUROENDOCRINE CARCINOMA
P.K. Rosenstein1, D.C. Clendaniel2, C.G. Schelling2, K.K. Sadanaga2, and M.D. Sánchez1
1Department of Pathobiology, University of Pennsylvania, School of Veterinary Medicine, Philadelphia, PA and 2Mid-Atlantic Veterinary Specialists, Malvern, PA

Veterinary Student Poster #35
MORBILVIRUS PNEUMONIA IN A BOTTLENOSE DOLPHIN (TURSIOPS TRUNCATES) FROM THE 2013 OUTBREAK ON USA EAST COAST
E.L. Noland, E.W. Howerth, and C. Driscoll
Department of Pathology, College of Veterinary Medicine, University of Georgia, Athens, GA and Fish & Wildlife Health Program, Maryland Department of Natural Resources, Cooperative Oxford Laboratory, Oxford, MD

Veterinary Student Poster #36
PREVALENCE OF HEMOSPORIDIAN BLOOD PARASITES IN CALIFORNIA HUMMINGBIRDS
S. Bahan and H. Ernest
Wildlife Genetics and Population Health Laboratory, Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis

EXPERIMENTAL DISEASE

Veterinary Student Poster #37
RESPONSE OF EPICARDIAL CORONARY ARTERIES AND MYOCARDIUM TO GROWTH HORMONE FOLLOWING LOW DOSE WHOLE BODY IRRADIATION
K. Vail1,2, G. Melendez2, J.M. Cline2, and T.B. Clarkson2
1Tuskegee University School of Veterinary Medicine, Tuskegee, AL and 2Center for Comparative Medicine Research, Wake Forest University School of Medicine, Winston-Salem, NC

Veterinary Student Poster #38
ENERGY IMBALANCE AND PHYSIOLOGICAL CHANGES DURING DETOMIDINE CONSTANT RATE INFUSION IN STANDING HORSES
Faculdade de Veterinária, Universidade Federal do Rio Grande do Sul, UFRGS, Porto Alegre, Brazil
Veterinary Student Poster #39
PATHOGENESIS OF DISSEMINATED INTRAVASCULAR COAGULATION IN CANCER: HEMANGIOSARCOMA CELLS GENERATE THROMBIN IN A TISSUE FACTOR-DEPENDENT MANNER
L. Witter, E. Gruber, and T. Stokol
Department of Population Medicine and Diagnostic Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY

Veterinary Student Poster #40
ACUTE EFFECTS OF MULTIPLE DOSE FULLERENE EXPOSURES IN MICE AFTER INTRAVENOUS OR INTRAPERITONEAL EXPOSURE
V. Wallace, J. Hinckley, B. Jortner, and M. Ehrich
Department of Biomedical Sciences and Pathobiology, Virginia-Maryland Regional College of Veterinary Medicine, Virginia

Veterinary Student Poster #41
IN VITRO TYPE I INTERFERON STIMULUS IN HUMAN MACROPHAGES INCREASES TRANSCRIPTION OF CCL8/MCP-2
L. Chen, S. Price, E. Engle, M. Li, and L. Gama
Department of Comparative and Molecular Pathobiology, Johns Hopkins University School of Medicine, Baltimore, MD

Veterinary Student Poster #42
PATHOGENESIS OF LOW VIRULENCE NEWCASTLE DISEASE VIRUS INFECTION IN MALLARDS
A. Byas¹, M. França², D. Stallknecht¹, and E. Howerth²
¹Southeastern Cooperative Wildlife Disease Study, Department of Population Health, College of Veterinary Medicine, The University of Georgia, Athens, GA; ²Poultry Diagnostic and Research Center, Department of Population Health, College of Veterinary Medicine, The University of Georgia, Athens, GA; and ³Department of Pathology, College of Veterinary Medicine, The University of Georgia, Athens, GA

Veterinary Student Poster #43
EFFECTS OF CORTICOSTEROIDS ON BIOSYNTHETIC CARTILAGE MATRIX PRODUCTION
M. Martychenko, K. Herzog, S. Durgam, and M. Stewart
Department of Veterinary Clinical Medicine, Veterinary Clinical Medicine, University of Illinois, Urbana-Champaign

Veterinary Student Poster #44
IS TOXOPLASMA-INDUCED CHRONIC WASTING IN MICE CAUSED BY IMMUNE-MEDIATED PATHOLOGICAL CHANGES IN THE GUT OR CHANGES IN COMMENSAL MICROBIOTA?
Y.M. Kouch, S.E. Ewald¹, J.L. Sonnenburg¹, J.C. Boothroyd¹, and D.M. Bouley²
¹Department of Microbiology and Immunology, ²Department of Comparative Medicine, Stanford School of Medicine, Stanford, CA
Veterinary Student Poster #45
SMALL MOLECULE VISUALIZATION USING MALDI-MS IMAGING IN BRAIN TISSUE OF SIV-INFECTED VERSUS UNINFECTED MACAQUES
T.L. Jenkins¹, M. Soliman², D. Colquhoun², J. Croteau³, and D. Graham²
¹Department of Pathology, University of Georgia College of Veterinary Medicine, Athens, GA and ²Molecular and Comparative Pathobiology/Retrovirus Lab, Johns Hopkins University School of Medicine, Baltimore, MD

Veterinary Student Poster #46
DISTRIBUTION AND CYTOKINE GENE EXPRESSION OF INTESTINAL GAMMA-DELTA T CELL SUBSETS IN NEONATAL, UNINFECTED AND MYCOBACTERIUM AVIUM SUBSP. PARATUBERCULOSIS INFECTED CALVES
M. Kornya, S. Lim, N. Karrow, and B.L. Plattner
Ontario Veterinary College, Department of Pathobiology and Department of Animal and Poultry Science, University of Guelph, Guelph, Ontario, Canada

Veterinary Student Poster #47
INVESTIGATING THE MOLECULAR MECHANISMS OF MACTRIIB-MFC-ASSOCIATED BRUNNER’S GLAND LESIONS IN MICE
A. Werts¹,², D. Krull¹, and R. Peterson¹
¹GlaxoSmithKline, Research Triangle Park, NC and ²North Carolina State College of Veterinary Medicine, Raleigh, NC

Veterinary Student Poster #48
THE ROLE OF TNF IN A MOUSE MODEL OF ACUTE COLITIS
A. Knox, K. Howe, and Y.L. Jones-Hall
Department of Comparative Pathobiology, Purdue University, College of Veterinary Medicine, West Lafayette, IN

Veterinary Student Poster #49
MOLECULAR EVALUATION OF CANINE UROTHELIAL CARCINOMA AND THE CELL LINE MODEL
S. Bowman, D.W. Knapp, and M. Breen
Department of Molecular Biomedical Sciences, North Carolina State University College of Veterinary Medicine, Raleigh, NC, and Department of Veterinary Clinical Sciences, Purdue University College of Veterinary Medicine, West Lafayette, IN

Veterinary Student Poster #50
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M. Lind¹, J. Smith¹, L. Briggie¹, H. Greenlee², and J. Greenlee³
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M.L. Piccione, S. Durgam, and M.C. Stewart
Department of Veterinary Clinical Medicine, College of Veterinary Medicine, University of Illinois, Urbana, IL
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S. Kao¹, T-H. Lin¹, T. Sato¹, Z. Yao¹, and S.B. Goodman¹,²
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B. Curtis¹, C. Hollinger¹, A. Bruckner², B. Rieg³, and M. Kiupel¹
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Department of Neurology, Stanford University, Stanford, CA

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Sanofi has 20 veterinary pathologists who are located at sites in the US (Boston, MA and Bridgewater, NJ) and Europe (Alfortville and Montpellier, France and Frankfurt, Germany). As members of the global Disposition, Safety and Animal Research (DSAR) organization, veterinary pathologists participate in the conduct, evaluation, peer review and reporting of preclinical toxicology studies intended to enable clinical studies and to support the registration and marketing of new drugs. For this work, they utilize state-of-the-art equipment, including a global digital pathology system that is used for reviewing slides across sites and for continuing education. Veterinary pathologists within Sanofi hold positions in DSAR leadership as heads of DSAR sites or Preclinical Safety groups. Others serve as leaders and/or members of global DSAR Advisory Groups, which have representatives from all DSAR sites. To learn more about career opportunities at Sanofi, please contact Norman Barlow at norman.barlow@sanofi.com.

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For more than 150 years, Pfizer Research and Development has been a leader in drug development and the optimization of therapeutic regimens in multiple disease areas. Pfizer’s staff comprises of highly talented and innovative scientists and business leaders who work together to identify disease targets, and then develop and optimize treatments for patients most likely to benefit. We incorporate cutting-edge technology and novel science to bring ideas to successful products. Pathology within Pfizer is focused in the Drug Safety, Research and Development (DSRD) unit, a diverse group of colleagues including toxicologists, immunologists, molecular biologists and other scientists tasked with the identification, characterization and distribution of prospective disease targets, and the efficacy assessment/hazard de risking those targets and any associated therapeutics. Pfizer Pathology actively supports a large and diverse portfolio (small/large molecules, antibody-drug conjugates and other novel modalities) and rapidly growing Precision Medicine initiatives (early Indications Profiling and Companion Diagnostic development). At Pfizer, pathologists not only increase the breadth and depth of their scientific acumen, but also have opportunities to contribute outside the discipline, collaborate across the organization and forge strong professional and personal relationships that will serve to enhance both career development and enjoyment.

There are currently 40 pathologists and approximately 70 pathology scientists located at 5 U.S. sites, supporting a variety of research areas across multiple time zones. Despite the geographical separation, Pfizer pathology functions as a global team, providing site-agnostic support, opportunities for novel technology/knowledge share and an ability to reach beyond a traditional pharma-based pathology role, all in an effort to enhance individual, site lead great discoveries. Talk to one of the Pfizer attendees to hear our plan for the future of the pharmaceutical industry.

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Roy Kerlin/Mark Rolmsa – Groton, CT
Laurence Whiteley – Cambridge, MA
Shawn O’Neil – Andover, MA
Magali Guffroy – Pearl River, NY
Nasir Khan – Executive Sponsor, Groton, CT