Successful National Workshop on Pathology in Pakistan

March 2-4, 2019
University of Veterinary and Animal Sciences Lahore

The Second National Workshop on Pathology in Pakistan was held March 2-4, at the University of Veterinary and Animal Sciences Lahore, under the guidance and stewardship of Dr. Ishtiaq Ahmed, Lecturer of Pathology. Drs. Corrie Brown and Tanja Zabka, of the Global Health Pathology Network, spent one week in Lahore, planning and then delivering the workshop, along with Dr. Ishtiaq. Additionally, Dr. Salman Latif Butt, a recent graduate of the University of Georgia Pathology PhD program, helped to facilitate many sessions.

Participants worked through case scenarios involving general pathology and also specific diseases of poultry in Pakistan. All activities were interactive and participatory. Although originally only 60 participants were expected, a total of 117 were present for the training, and they represented a mix of academics, industry, and government veterinarians. The concepts of morphologic diagnoses and pathogenesis were strongly emphasized throughout, concepts which were somewhat novel to the participants. One afternoon was dedicated to poultry necropsy, using birds submitted from nearby farms. A variety of diseases were found, and participants practiced describing lesions and pathogenesis – pulmonary hypertension syndrome, colibacillosis, and fowl typhoid, to name a few. Poultry are very important in the economy of Pakistan, with a large commercial sector, which is a major economic driver. Pakistan ranks ninth in the world in terms of poultry production. Corrie and Tanja believe this thoroughly because they cannot recall a single meal during their travels in Pakistan in which a poultry product was not served (eggs for breakfast, chicken with rice for lunch, chicken kabobs for dinner!).

continued on Page 2...
Enlarged right ventricle, pulmonary hypertension syndrome

Three participants in necropsy

continued on Page 3...
After the workshop, the organizers took their American guests sightseeing, with visits to historic sites in Lahore and a field trip to the Gudwara Sikh shrine, located in Pakistan but which has recently been opened to Indians through a “visa-free corridor”. As a result, both Pakistanis and Indians can mix freely at this expansive and beautiful site. Thank you to Imran Khan (Pakistan prime minister and former cricket star) for a wonderful first start to an Indo-Pak peace initiative!

Salman and Ishtiaq, Badshahi mosque

Gudwara (shrine) for Sikhs, in Pakistan

Farmer with buffalo at university clinic
The Foundation goes virtual in the times of COVID19

As announced in the April issue of our newsletter, we continue to work hard in the organization of virtual seminars which the Foundation is offering via Zoom. In subsequent pages of this newsletter, you will see many courses which have been repackaged as teleconference, and many more that sprung fully to life as teleconferences, in order to protect our faculty and attendees from this virus which has reshaped the way we live at the moment.

Our “Free Friday seminars” have launched with unprecedented success - they start at noon EDT (New York time) every Friday, or maybe it’s another time for you, depending on when you live in the world. We held our first virtual seminar with a basic 100 seat Zoom account and have upgraded twice since then. This however, proved to be another conservative estimate as our latest seminar. Dr. Paola Barato’s 1 May lecture on the Pathology of Freshwater Fish currently has 766 registrants (if more than 500 turn up, it looks as if we will upgrade again!)

As we have received numerous requests for CE credits from veterinarians scrambling to renew their licenses in the midst of a lot of cancelled meetings by other organizations, we came up with the idea of offering day-long (8 hour) seminars on different topics with actual CE credits and certificates. The first one is scheduled for Tuesday May 12, on Diseases of Horses and will be followed on May 26 by a full-day on Dermatopathology, and on June 8th with another full-day seminar on Diseases of Zoo Animals. These seminars will provide RACE and ACVP MOC credits and are offered at the very affordable price of just $50 each. More information on these courses follows in this newsletter.

Most of our virtual seminars are being recorded and uploaded in the YouTube channel of the Foundation for public view for a limited time (as dictated by the presenters, and often their Universities. This is proving very helpful for people who are unable to attend on the day of the seminar, and for those colleagues in places with an unpredictable internet connection. And Dr. Williams continues to upload “Gross Path Challenges” daily to our YouTube channel to help break the boredom of so many of our colleagues who are stuck at home helping to “flatten the curve.”

While we all miss the personal interaction of the in-person seminars, these virtual versions are safe, doable and, most importantly, seem to be a great success.

Be sure to stay tuned for more great seminars coming your way. Each seminar (and monthly slate of seminars are published on the Foundation’s social media outlets (Facebook, Instagram) and our listserv.

Francisco Uzal, President
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
<th>Institution/Location</th>
</tr>
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<tbody>
<tr>
<td>01</td>
<td>FRIDAY</td>
<td>Freshwater fish pathology</td>
<td>Dr. Paola Barato</td>
<td>CORPAVET, Colombia</td>
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<td></td>
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<td>Colombia</td>
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<td>08</td>
<td>FRIDAY</td>
<td>Stories and Cases from zoos and aquaria</td>
<td>Dr. Carlos Rodriguez</td>
<td>Disney’s Animal Kingdom</td>
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<td>Florida</td>
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<tr>
<td>15</td>
<td>FRIDAY</td>
<td>Experimental models of equine laminitis: a steady path forward</td>
<td>Dr. Julie Engiles</td>
<td>University of Pennsylvania</td>
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<td>Pennsylvania</td>
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<tr>
<td>22</td>
<td>FRIDAY</td>
<td>My favorite avian diseases*</td>
<td>Dr. Leslie Woods</td>
<td>CAHFS - UC Davis</td>
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<tr>
<td></td>
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<td>*with a short introduction on virulent Newcastle disease by Paco Uzal</td>
<td></td>
<td>California</td>
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<tr>
<td>29</td>
<td>FRIDAY</td>
<td>Pathology of immune-mediated drug-induced liver injury in immuno-oncology checkpoint inhibitor combination therapy</td>
<td>Dr. Timothy Affolter</td>
<td>Pfizer Inc., La Jolla</td>
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<td>California</td>
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IMPORTANT. Updated 3/11/2020 Due to the recent developments related to the COVID-19, institutional traveling restrictions, etc., we have decided to continue with the seminar, but it will be delivered via teleconference (WebEx, GoToMeeting, Zoom or similar TBD).

No lectures, or other activities related to the 6th Lab Animal Seminar will take place at UW Vet School. All the lectures and exam will be delivered electronically.

VI WNPRC Lab Animal Medicine and Pathology Seminar with International Mock-ACLAM Exam*

Tuition to the program is free* to attendees, thanks to our sponsors Wisconsin National Primate Research Center, School of Veterinary Medicine UW Madison, C.L. Davis DVM Foundation, Latin Comparative Pathology Group, and the Wisconsin National Primate Research Center

May 2-3, 2020

Location: School of Veterinary Medicine, University of Wisconsin, 2015 Linden Dr. Madison, WI 53706

Registration: Online link for registration, CE, and teleconferences will be sent, please enroll on our mailing list amejia@primate.wisc.edu Subject: enroll/Lab Animal Medicine and Pathology Seminar

Lecture topics include: Keynote Speakers: Drs. Bettina Gentry and Craig Franklin

- Mice, zebrafish, rabbits, non-human primates, other primary and secondary species
- Descriptive Veterinary Pathology
- Anesthesia and AVMA Panel on Euthanasia
- Regulations and welfare
- Exam preparatory discussion by new ACLAM and ACVP Diplomates
- International Mock Exam Coalition Examination (for ACLAM and ECLAM exam preparation)

Program Directors: Andres Mejia DVM, MS, DACLAM, DACVP amejia@primate.wisc.edu
Rebekah Franklin, DVM, DACLAM franklin@rarc.wisc.edu

*Continuing Education hours provided by the UW School of Veterinary Medicine (UWSVM). A fee of $22.50 will be assessed to individuals that request CE certification. The UWSVM is an accredited continuing veterinary medical education provider; however, 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. It is recommended that you check with your state veterinary licensing organization to find out what the requirements are to maintain your license.
Davis-Thompson Foundation Day Seminars

Registration fee: $50
8 RACE CE CREDITS!*

EQUINE DISEASES
Tuesday, 12 May

Dr. Fabio Del Piero
Diseases of the nervous system
Louisiana State University
7-9 am**

Dr. Sue Stover
Musculoskeletal injuries of race horses
UC Davis
9:30-11:30 am

Dr. Paco Uzal
Diseases of the alimentary system
UC Davis
12:30-2:30 pm

Dr. Leonardo Teixeira
Ocular diseases
University of Wisconsin - Madison
3-5 pm

* This program has been submitted (but is not yet approved) for 8 hours of continuing education credit in jurisdictions which recognize RACE approval.
** all times in PST

Register here: https://us02web.zoom.us/webinar/register/WN_mvnxcxq-qRO2ZqsGuyUqRzA
Day-seminars Davis/Thompson Foundation May 2020

Tuesday 26 May: Dermatopathology

Registration fee: $ 50*

7-9 am**: Dermatitis in domestic animals – patterns, problems, pairing (emphasis on dogs and cats)
Dr. Charles Bradley, University of Pennsylvania.

9:30-1:30 am: Skin pigmentation and comparative pathology
Dr. Keith Linder, North Carolina State University

12:30-2:30 pm: Expanding differential diagnoses for dermatopathologic lesions
Dr. Elizabeth Mauldin, University of Pennsylvania

3-5 pm: Interface dermatitis alopecia
Dr. Verena Affolter, UC Davis.

*:-This seminar is preapproved by the ACVP Maintenance of Certification (MOC) Committee for 4 credits
-This program has been submitted (but is not yet approved) for 8 hours of continuing education credit in jurisdictions which recognize RACE approval.
**: all times in PST

Register at
https://us02web.zoom.us/webinar/register/WN_EfM7pu8aT5ORVMJvYjF180
June Virtual Seminars of
the Davis-Thompson Foundation and
the Latin Comparative Pathology Group

05
FRIDAY
Cognitive errors in veterinary diagnostic pathology: why we make mistakes and how to mitigate the risk
SPONSORED BY DTF

Dr. Paul Stromberg
The Ohio State University
Ohio

12
FRIDAY
Tumors of the peripheral nervous system
SPONSORED BY DTF

Dr. Kevin Woolard
UC Davis
California

19
FRIDAY
Pathology of camelids
SPONSORED BY DTF

Dr. Christiane Loehr
Oregon State University
Oregon

26
FRIDAY
The pathology of selected diseases caused by toxic plants
SPONSORED BY LCPG

Dr. Claudio Barros
UFMS
Brasil

The seminars are free and offered via Zoom and hosted by Davis Thompson Foundation CEO, Dr. Bruce Williams or President Dr. Francisco Uzal. Registration is free but required (watch for your invitation to register in the coming weeks).

All seminars are at 9 am (PST), 10 am (MST), 11 am (CST), 12 pm (EST)
2020 U.S. Descriptive Veterinary Pathology Course

June 1-5
VIRTUAL COURSE

Dr. Jey Koehler
Auburn University

Dr. Patricia Pesavento
University of California Davis

Dr. Linden Craig
University of Tennessee

Lectures, active learning exercises, & mock exams on:
- Gross Pathology
- Microscopic Pathology
- Gross-Micro Correlations
- Ultrastructural Pathology
- Immunohistochemistry

Registration is now closed, as all seats are filled
SAVE THE DATE

Workshop on Pathology and Basic Mechanisms of Disease

Dr. Corrie Brown
University of Georgia

University of Zambia, School of Veterinary Medicine,
Pathology Laboratory
21-23rd July 2020

For more information:
Dr. John Yabe
+260-973-258703
john.yabe@unza.zm
POLA 2020
3-7 August 2020

VIRTUAL SEMINAR THROUGH ZOOM

Pathology of the Mouse
Pathology of the Rat
Pathology of Non-Human Primates
Pathology of Mini-Pigs
Pathology of the Rabbit
Pathology of the Ferret
Pathology of Laboratory Fish
Pathology of Guinea Pigs, Hamsters and Gerbils
Pathology of the Ferret
Mock Exam

TUITION:
$300
Foundation members

$400
Non-members

The seminar is pre-approved by the ACVP MOC committee for 2 credits per half day attended.
This course has been submitted (but not approved) for 32 hours of continuing education in jurisdictions which recognize RACE approval.

Register at:
https://davisthompsonfoundation.regfox.com/2020pola
Ruminant symposium
Gross pathology
(emphasis on Nervous system)
& 6th Histopathology meeting
(case presentation)

August 14-15, 2020
Santiago, Chile

For more information: Dr. Carlos Flores (carlos.flores@upv.cl)
6th Uruguayan CL Davis / W Thompson Foundation Seminar

Descriptive Gross Pathology & Diagnostic Pathology of Farm Animals

August 31 – September 1, 2020
Veterinary School, Universidad de la República
Montevideo, Uruguay

Dr. Francisco Uzal  Dr. David Driemeier  Dr. Rodolfo Rivero  Dr. Fernando Dutra

Dr. Federico Giannitti  Dr. Leonardo Minatel  Dr. José Verdes  Dr. Kanji Yamasaki

REGISTRATIONS: US$ 45, Veterinary School Registration Office, UdelaR: Marco Podesta Foundation (fundacionmarcopodesta@gmail.com)
CONTACT: Prof. Dr. José Manuel Verdes (jmverdes@fvet.edu.uy)
30th
Southcentral division meeting

Classical Skin Diseases and Hair Follicle Tumors

Dr. Dominique Wiener
Texas A&M University

We want to hear about your cases!
Attendees are invited to present a 10-15 minute report to the group of an interesting case!

For more information:
https://davisthompsonfoundation.regfox.org/2020galveston
20th CL Davis/SW Thompson Diagnostic Pathology Symposium:
Diagnostic Pathology of Wildlife Diseases

October 16, 2020, Friday,
8am–5:45pm
Gaylord Opryland Resort,
Nashville, TN

In conjunction with the 63rd Annual AAVLD annual meeting

For more information and registration:
https://davisthompsonfoundation.regfox.com/2020aavld
SAVE THE DATE

2020 ACVP Pre-Conference Workshop

ORAL PATHOLOGY OF COMpanion ANIMALS

The COMMON
The CLASSIC
And the THE CONFUSING

Dr. Cindy Bell

Dr. Brian Murphy

Date: Saturday, October 31 2020
Time: 8:00am - 5:00pm
Venue: Chicago Marriott Downtown Magnificent Mile, Chicago, Illinois

Registration details forthcoming through ACVP website
SAVE THE DATE

2020

Davis-Thompson Foundation
Descriptive Veterinary Pathology Course

November 30 to December 4
Facultad de Ciencias Veterinaria, Universidad de Buenos Aires, Argentina

Dr. Jey Koehler
Auburn University

Dr. Patricia Pesavento
UC Davis

Dr. Ana Alcaraz
Western University

- Gross descriptive techniques
- Microscopic descriptive techniques
- Ultrastructural descriptive techniques
- IHC/ISH/molecular interpretation
- Gross-histo correlation
- Mock exams
- And much more!

For more information:
Dr. Leonardo Minatel
lminatel@fvet.uba.ar
SAVE THE DATE

2020

Davis-Thompson Foundation
Descriptive Veterinary Pathology Course
December 7 to December 11
UFMG - Belo Horizonte, Minas Gerais, Brazil

Gross descriptive techniques
Microscopic descriptive techniques
Ultrastructural descriptive techniques
IHC/ISH/molecular interpretation
Gross-histo correlation
Mock exams
And much more!

For more information:
Dr. Renato de Lima Santos
rsantos@vet.ufmg.br
Become a member of the Latin Comparative Pathology Group

LCPG:
- Provides Diagnostic Exercises
- Offers travel awards
- Coordinates externships in US labs for Latin Americans
- Organizes and lectures in Latin American seminars and courses

Learn more at: www.cldavis.org/lcpg_english

LCPG is the proud Latin American Division of the Davis/Thompson Foundation!

Contact Francisco.carvallo@gmail.com to join LCPG!

Membership fees:
$50 - Professionals in US, Canada and Europe
$30 - Professionals in Latin America
$25 - Students in US, Canada and Europe
$15 - Students in Latin America
Diagnostic Exercise
From The Davis-Thompson Foundation

Case #138   Month: February   Year: 2020

Contributors: Rebecca Radisic, School of Veterinary Medicine, UC Davis, 4th-year veterinary student; Sebastian Carrasco, DVM, MPVM, MSc, PhD, Comparative Pathologist, Massachusetts Institute of Technology, Division of Comparative Medicine.

Clinical History: This is tissue from a twenty-four-year old, female Gopher Snake (Pituophis catenifer) from a zoo collection that was presented, after decision for euthanasia, to the UC Davis Anatomic Pathology service for necropsy with a history of progressive anorexia, weight loss, and anemia. This patient had a previous (5 years prior) cholecystectomy followed by antimicrobial therapy for Mycobacterium chelonae infection of the gallbladder.

Necropsy Findings: At necropsy, this Gopher Snake was in poor nutritional condition based on moderately decreased intracoelomic fat stores and markedly decreased epaxial musculature. There were multifocal plaque-like lesions and nodules infiltrating the lung, spleen, and pancreas. Specifically, the lung was diffusely dark-red and contained 60-80, pale tan, round, slightly raised nodules affecting ~40% of the pulmonary surface. The pancreas and spleen contained scattered similar nodules throughout the parenchyma.

Follow-up Questions: What is your morphologic diagnosis? What are key histologic features? What diagnostic tests are indicated (special stains, IHC, culture, etc.)?

Answers and more info here!

*The Diagnostic Exercises are an initiative of the Latin Comparative Pathology Group (LCPG), the Latin American subdivision of The Davis-Thompson Foundation. These exercises are contributed by members and non-members from any country of residence. Consider submitting an exercise!
Surgical Pathology of Tumors of Domestic Animals, Vol. 2 Mammary Tumors

The second in the updated series of ‘fascicles’, now published by the Davis-Thompson Foundation, provides a comprehensive coverage of tumours of the mammary gland. Everything about the text is an improvement on previous versions and readers will particularly like the presence of beautiful histological images in the text (as opposed to a separate section at the back).

In over 250 pages the new ‘go to’ reference is broadly divided between canine and feline mammary gland tumours, but also covers a range of non-neoplastic proliferative lesions, mastitis and important entities in other veterinary species, such as ferrets. As important (if not more so!) as the breadth of coverage of the tumour types occurring in cats and dogs is the inclusion of detailed sections covering embryology and development, normal anatomy and histology, changes in the mammary gland during the oestrus cycle and immunohistochemical features. A thorough understanding of these topics is essential in order to navigate the many pitfalls of mammary tumour diagnosis. This is particularly useful for those veterinary pathologists working in regions of the world where mammary tumours are either less common (due to more widespread neutering) or referral institutions where the caseload tends toward the more esoteric! Making the distinctions between benign and malignant is particularly important and this reference helps greatly in that process.

Diagnostic pathologists will appreciate the inclusion of sections on biologic behaviour and differential diagnoses for each entity – these are typically the questions (‘so what does it mean?’ ‘how do I treat it?’) we get thrown at us most often by the referring clinician. The other section which is highly useful practically covers trimming in of mammary specimens with advice on identification and assessment of margins. We have all been confronted with one (or more) ‘mammary strips’ to examine and had to make choices about use of ink, sections to take (or not) and this very helpfully aids with that decision-making process. The descriptions associated with each entity are concise but highlight the key diagnostic features and how similar lesions are excluded. Cytologic images are included for some entities and in general the image (and publication quality) is excellent. The index (often a source of frustration for many pathologists, including myself, going around in circles with ‘for A, see B……for B, see A!’) is both simple and straightforward – and importantly, it actually works!

In summary, this is a very sound and modest investment for any diagnostic pathologist or trainee and continues the Foundation’s objectives of providing high quality and accessible educational and reference materials.

Prof Simon L. Priestnall  
BSc VetPath (Hons), BVSc, PhD, PGC(VetEd), FHEA, FRSB, DipACVP, FRCPath, MRCVS  
Dept Pathobiology & Population Sciences, The Royal Veterinary College
Retiring?

Have slides left over from your recent slide seminar? Just looking to free up some storage space? The Foundation is looking for additional glass slides, kodachromes and other similar materials for its Correspondence Division and Study Centers. All materials should be well-identified with as much accompany history and discussion as possible, as these materials are expressly used for teaching. Moreover, as the Foundation is a publicly donative charity, all donated materials are tax-deductible. For more information, please contact Dr. Bruce Williams at bruce.h.williams.dvm@gmail.com.

Davis-Thompson Foundation Pathology Externship

Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always interested in having veterinary students apply for an externship and we would like to add more externship sites that do not usually have veterinary students, to help increase their interest and knowledge of pathology with some off-campus experience. For more information, contact Dr. Jim Britt, jobritt@sbcglobal.net; 501-912-1449.

Did you know?

The “An Atlas of Metazoan Parasites in Animal Tissues” by Gardiner and Poynton is available online? …and in Spanish !!!

Check it out here: http://cldavis.org/PDFs/atlas_esp.pdf
## CALENDAR FOR UPCOMING EVENTS 2020

### North America

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<th>Venue</th>
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<tr>
<td>USA</td>
<td>VI WNPRC Lab Animal Medicine and Pathology Seminar</td>
<td>May 2-3</td>
<td>VIRTUAL</td>
<td>Andres Mejia <a href="mailto:amejia@primate.wisc.edu">amejia@primate.wisc.edu</a></td>
</tr>
<tr>
<td></td>
<td>Descriptive Veterinary Pathology Course</td>
<td>June 1-5</td>
<td>VIRTUAL</td>
<td>Jey Koehler <a href="mailto:jaw0007@auburn.edu">jaw0007@auburn.edu</a></td>
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<td></td>
<td>POLA 2020</td>
<td>August 3-7</td>
<td>VIRTUAL</td>
<td>Robert Kim <a href="mailto:robbkim@gmail.com">robbkim@gmail.com</a></td>
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<td></td>
<td>30 Annual Southcentral Division Meeting</td>
<td>October 2-3</td>
<td>Galveston, TX</td>
<td>Jim Britt, Ed Dick <a href="mailto:jobritt@sbcglobal.net">jobritt@sbcglobal.net</a></td>
</tr>
<tr>
<td></td>
<td>20th Annual Diagnostic Pathology Seminar-AAVLD</td>
<td>October 16</td>
<td>Nashville, TN</td>
<td>Matti Kiupel <a href="mailto:kiupel@msu.edu">kiupel@msu.edu</a></td>
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<td></td>
<td>ACVP Pre-Conference workshop</td>
<td>October 31</td>
<td>Chicago, IL</td>
<td>Jennifer Chapman <a href="mailto:chapmanjl@verizon.net">chapmanjl@verizon.net</a></td>
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### Oceania

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<tr>
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<tr>
<td>Australia</td>
<td>AAPSP Roadshow</td>
<td>August 24-September 4</td>
<td>Brisbane, Sydney, Adelaide, Melbourne, Perth</td>
<td>Hanna Bender <a href="mailto:hanbender@gmail.com">hanbender@gmail.com</a></td>
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<tr>
<td></td>
<td>Davis Thompson/ACVP/ASVP seminar on clinical pathology</td>
<td>September 28-29</td>
<td>University of Melbourne</td>
<td>Panos Loukopoulos <a href="mailto:panos.loukopoulos@unimelb.edu.au">panos.loukopoulos@unimelb.edu.au</a></td>
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### Latin America

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<tr>
<td>Argentina</td>
<td>XIII Argentinean Seminar and XII RAPAVE</td>
<td>September 2-4</td>
<td>Balcarce</td>
<td>Eleonora Morrell <a href="mailto:morrell.eleonora@inta.gob.ar">morrell.eleonora@inta.gob.ar</a></td>
</tr>
<tr>
<td>Chile</td>
<td>Small Ruminant Symposium and 6th Histopathology Meeting</td>
<td>August 14-15</td>
<td>Universidad Pedro de Valdivia, Santiago de Chile</td>
<td>Carlos Flores <a href="mailto:flores.carlos.vet@gmail.com">flores.carlos.vet@gmail.com</a></td>
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<tr>
<td>Ecuador</td>
<td>Ecuatorian Seminar of Veterinary Surgical Diagnostic Veterinary Pathology in Small Animals</td>
<td>September 24-25</td>
<td>Provincia Salinas o Manta (TBD)</td>
<td>Lorena Ofna Coloma <a href="mailto:biocitecuador@gmail.com">biocitecuador@gmail.com</a></td>
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<tr>
<td>Mexico</td>
<td>2nd Mexican Seminar</td>
<td>TBD</td>
<td>Universidad Nacional Autonoma de Mexico, Mexico City</td>
<td>Laura Romero Romero <a href="mailto:lromeror@unam.mx">lromeror@unam.mx</a></td>
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<td>Peru</td>
<td>5th Peruvian Seminar</td>
<td>TBD</td>
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<td>Rosa Perales <a href="mailto:rperalesc@unmsm.edu.pe">rperalesc@unmsm.edu.pe</a></td>
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<tr>
<td>Uruguay</td>
<td>6th Uruguayan Seminar</td>
<td>August 31 - September 1</td>
<td>Facultad de Ciencias Veterinarias, Universidad de la Republica, Montevideo</td>
<td>José Manuel Verdes <a href="mailto:jmverdes@fvet.edu.uy">jmverdes@fvet.edu.uy</a></td>
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### Africa

| Country | Course | Date | Venue | Contact |