



May 2020

Volume 50 Issue 5

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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.



Vice Chancellor Nasim presenting shields to Corrie and Tanja

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...



Class Photograph



Three participants in necropsy



Enlarged right ventricle, pulmonary hypertension syndrome

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

May Virtual Seminars of the Davis-Thompson Foundation and the Latin Comparative Pathology Group



01
FRIDAY

Freshwater fish pathology

SPONSORED BY LCPG



Dr. Paola Barato
CORPAVET
Colombia

Stories and Cases from
zoos and aquaria

SPONSORED BY DTF

08
FRIDAY



Dr. Carlos Rodriguez
Disney's Animal Kingdom
Florida

15
FRIDAY

Experimental models of
equine laminitis: a steady
path forward

SPONSORED BY DTF



Dr. Julie Engiles
University of Pennsylvania
Pennsylvania

My favorite avian diseases*
*with a short introduction on virulent
Newcastle disease by Paco Uzal

SPONSORED BY DTF

22
FRIDAY



Dr. Leslie Woods
CAHFS - UC Davis
California

29
FRIDAY

Pathology of immune-mediated
drug-induced liver injury in immu-
no-oncology checkpoint inhibitor
combination therapy

SPONSORED BY LCPG



Dr. Timothy Affolter
Pfizer Inc., La Jolla
California

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.

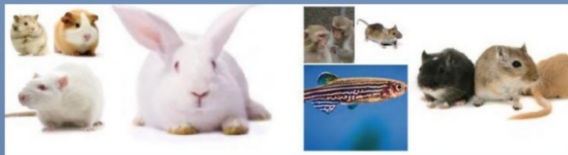


VI WNPRC Lab Animal Medicine and Pathology Seminar with International Mock-ACLAM Exam*

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 (UW-SVM). A fee of \$22.50 will be assessed to individuals that request CE certification. The UW-SVM 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. Leandro 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_mvncxu-qR02ZqsGuyUqRzA



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.



9:30-11:30 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_EfM7pu8aT5DRVMJvYjF18Q

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

Tumors of the peripheral nervous system

12
FRIDAY

SPONSORED BY DTF



Dr. Kevin Woolard
UC Davis
California

19
FRIDAY

Pathology of camelids

SPONSORED BY DTF



Dr. Christiane Loehr
Oregon State University
Oregon

The pathology of selected diseases caused by toxic plants

26
FRIDAY

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

**20
RACE CE
credits!**

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



TUITION:

\$300

Foundation members

\$400

Non-members

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

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>



Davis-Thompson DVM Foundation
Advancement of Veterinary Pathology

LCPG

UPU **UNIVERSIDAD PEDRO DE VALDIVIA**

Dr. Santiago Diab

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 Republica
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
Oct. 2-3, 2020. Galveston, TX

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



Dr. Scott Fitzgerald
Michigan State University



Dr. Robert Ossiboff
University of Florida

- **Pathology of Wild Mammals**
- **Pathology of Wild Birds**
- **Pathology of Reptiles**
- **Pathology of Amphibians**

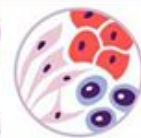
In conjunction with the 63rd Annual AAVLD annual meeting

For more information and registration:
<https://davisthompsonfoundation.regfox.com/2020aavld>

SAVE THE DATE



ACVP
AMERICAN COLLEGE OF
VETERINARY PATHOLOGISTS



2020 ACVP Pre-Conference Workshop

ORAL PATHOLOGY OF COMPANION ANIMALS

The **COMMON**
The **CLASSIC**
And 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


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!

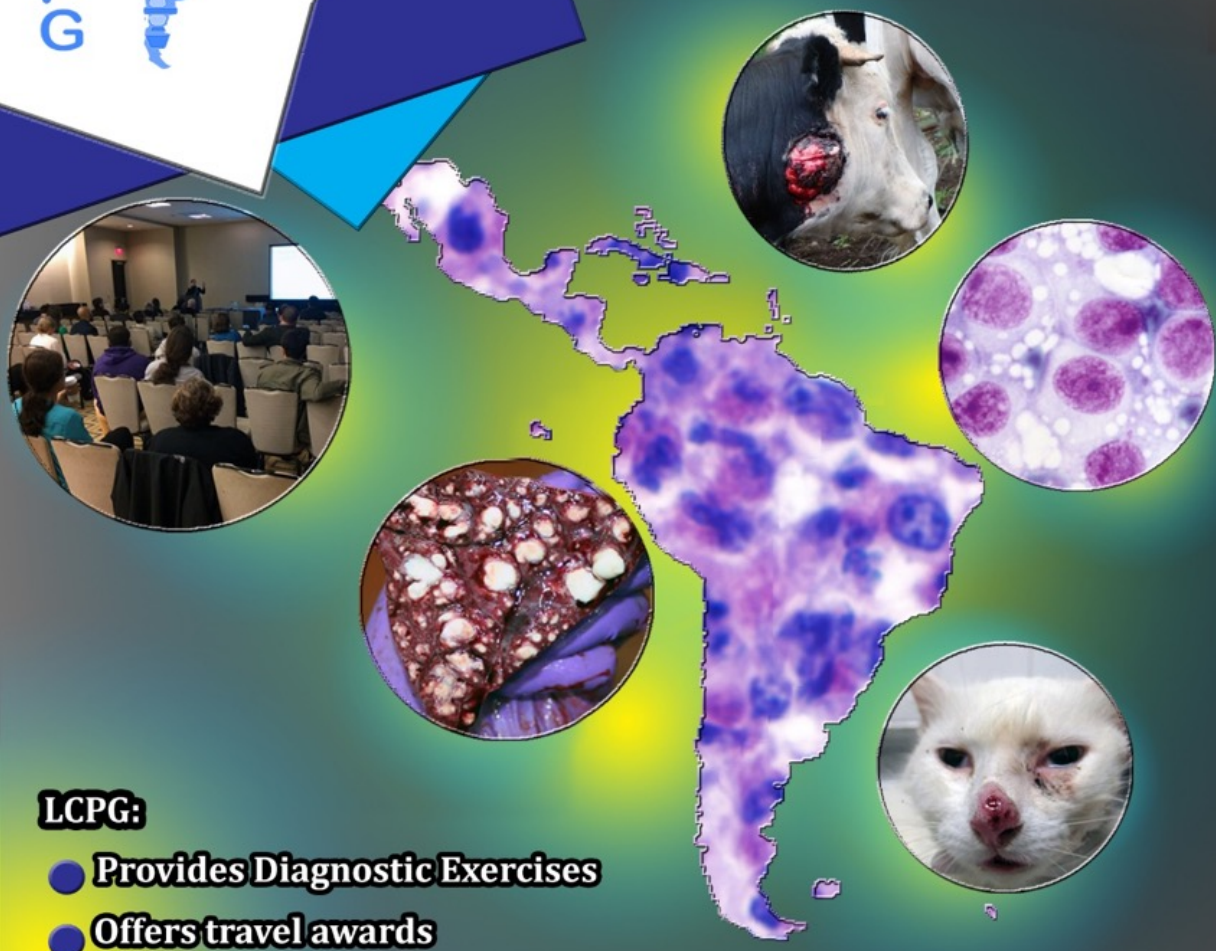


For more information:
Dr. Renato de Lima Santos
rsantos@vet.ufmg.br

Logos: Associação Brasileira de Patologia Veterinária, Escola de Veterinária UFMG, Davis-Thompson DVM Foundation, Advancement of Veterinary Pathology



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

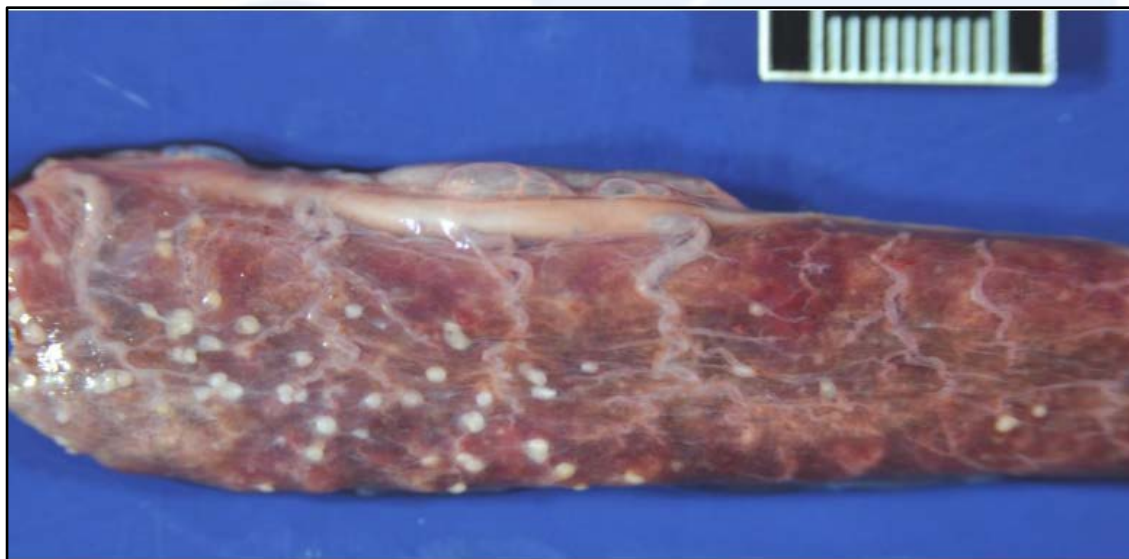


Case #138 Month: February Year: 2020

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.)?

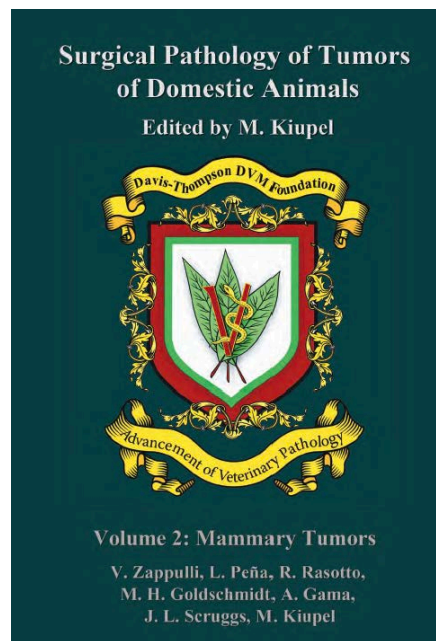
Answers and more info [here!](#)

*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 breath 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

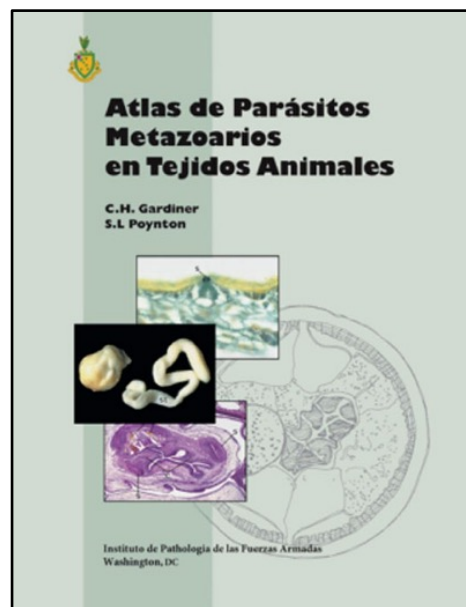
Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always 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](tel:501-912-1449).

Did you know?

The “An Atlas of Metazoan Parasites in Animal Tissues” by Gardiner and Poynton is available on line? ...and **in Spanish !!!**

Check it out here:

http://cldavis.org/PDFs/atlas_esp.pdf



CALENDAR FOR UPCOMING EVENTS 2020

North America				
Country	Course	Date	Venue	Contact
USA	VI WNPRC Lab Animal Medicine and Pathology Seminar	May 2-3	VIRTUAL	Andres Mejia amejia@primate.wisc.edu
	Descriptive Veterinary Pathology Course	June 1-5	VIRTUAL	Jey Koehler jaw0007@auburn.edu
	POLA 2020	August 3-7	VIRTUAL	Robert Kim robkkim@gmail.com
	30 Annual Southcentral Division Meeting	October 2-3	Galveston, TX	Jim Britt, Ed Dick jobritt@sbcglobal.net
	20 th Annual Diagnostic Pathology Seminar-AAVLD	October 16	Nashville, TN	Matti Kiupel kiupel@msu.edu
	ACVP Pre-Conference workshop	October 31	Chicago, IL	Jennifer Chapman chapmanjl@verizon.net
Oceania				
Country	Course	Date	Venue	Contact
Australia	AAPSP Roadshow	August 24-September 4	Brisbane, Sydney, Adelaide, Melbourne, Perth	Hanna Bender hanbender@gmail.com
	Davis Thompson/ACVP/ASVP seminar on clinical pathology	September 28-29	University of Melbourne	Panos Loukopoulos panos.loukopoulos@unimelb.edu.au
Latin America				
Country	Course	Date	Venue	Contact
Argentina	XIII Argentinean Seminar and XII RAPAVE	September 2-4	Balcarce	Eleonora Morrell morrell.eleonora@inta.gob.ar
Chile	Small Ruminant Symposium and 6 th Histopathology Meeting.	August 14-15	Universidad Pedro de Valdivia, Santiago de Chile	Carlos Flores flores.carlos.vet@gmail.com
Ecuador	Ecuadorian Seminar of Veterinary Surgical Diagnostic Veterinary Pathology in Small Animals	September 24-25	Provincia Salinas o Manta (TBD)	Lorena Oña Coloma biocitecuador@gmail.com
Mexico	2 st Mexican Seminar	TBD	Universidad Nacional Autonoma de Mexico, Mexico City	Laura Romero Romero lromeror@unam.mx
Peru	5 th Peruvian Seminar	TBD	TBD	Rosa Perales rpalesc@unmsm.edu.pe
Uruguay	6 th Uruguayan Seminar	August 31 - September 1	Facultad de Ciencias Veterinarias, Universidad de la Republica, Montevideo	José Manuel Verdes jmverdes@fvvet.edu.uy
Africa				
Country	Course	Date	Venue	Contact