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Davis-Thompson Foundation

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DVM FOUNDATION

A tax-exempt, donative,
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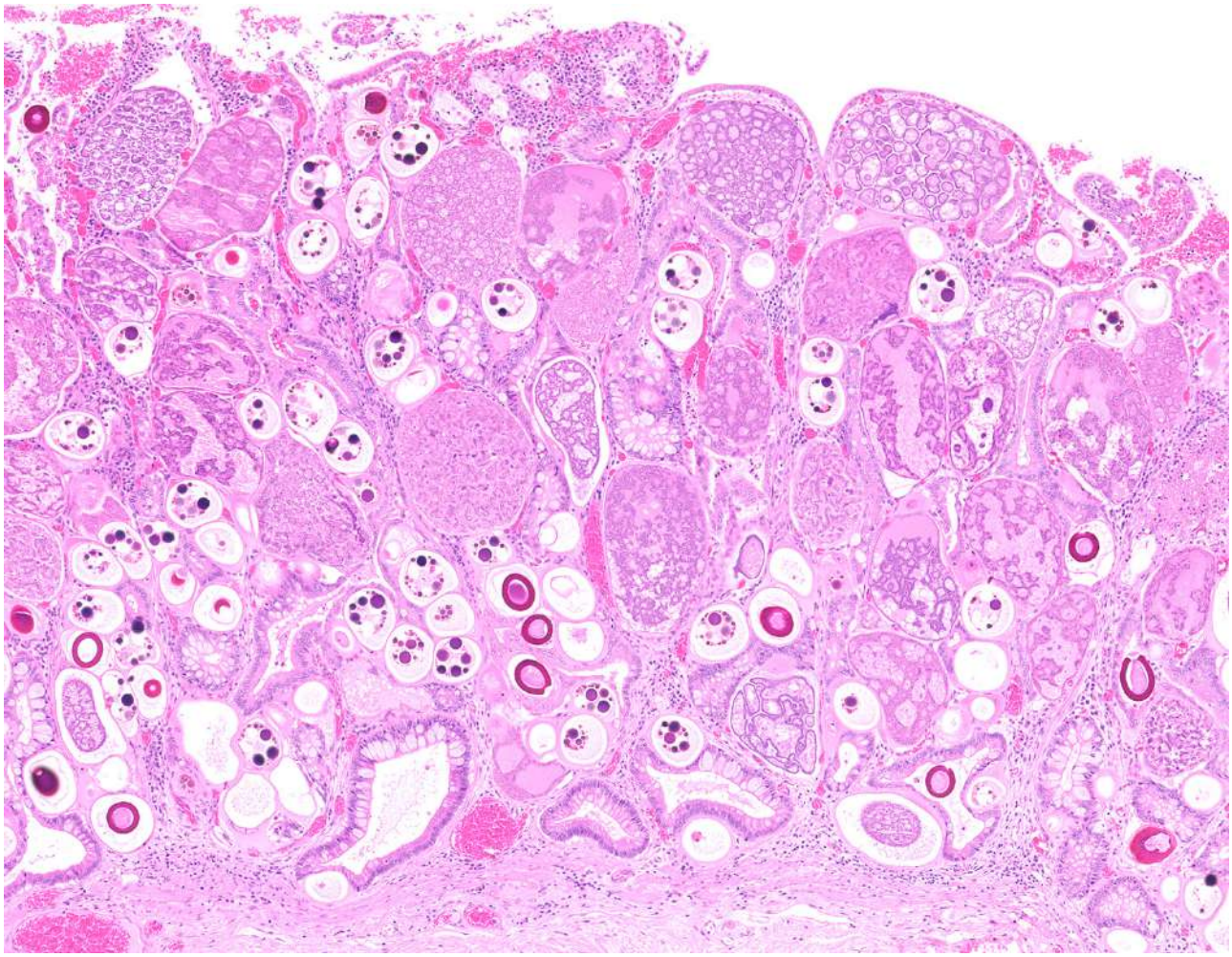
For the advancemet of veterinary
and comparative pathology

THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

January 2022

VOL. 52



INSIDE THIS ISSUE

Monthly cover photograph winners: Mark Wessels & Richard Fox

Finn Pathologists, Norfolk, UK

11-year-old male Bactrian camel with myriad coccidial bodies (predominantly schizonts and developing oocysts) effacing mucosal architecture of the small intestine. Several different species have been implicated including *Eimeria bactriani, cameli, dromedarii* and *pellerdyi*; however, the large oocyst size (86-94 x 51-56 µm) in this case is supportive of *Eimeria cameli* infection.

FOUNDATION ANNOUNCEMENTS

Happy New Year from the Davis-Thompson Foundation

Another challenging year has come to an end and we are proud to announce that despite all the difficulties brought about by the ongoing COVID pandemic, the Foundation has continued to fulfill its mission without interruption and with an amazing number and variety of training opportunities around the globe. As you all know, very soon after the beginning of the COVID pandemic, we set up an ambitious program of virtual training courses and seminars that reached every corner of the world. In 2021, we expanded and improved our training program with an incredible number of meetings, continuing education hours, awards, publications and much more.

These amazing efforts are what makes the Davis Thompson Foundation the number one organization teaching veterinary and comparative pathology in the world, and they would not have been possible without both our outstanding volunteers from many countries, and the continuous support and feedback of our faithful attendees.

Please accept our heart-felt thanks for your continued loyalty and trust in us, and stay tuned for an even better 2022.

Thank you for your support and happy new year!!!

Francisco (Paco) Uzal
CEO, Davis-Thompson Foundation

SEMINAR REVIEWS

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Patologia de Aves Selvagens e Ornamentais

17 de Novembro de 2021

Brazilian/Portuguese Series
Dra. Renata Assis Casagrande (UDESC)

Nesse Webinar a Profa. Dra. Renata compartilhou um pouco de sua vasta experiência em patologia de aves selvagens e ornamentais, com a apresentação de inúmeros casos clínico-patológicos, belas imagens macro e microscópicas, além da discussão através de artigos atualizados sobre o tema. Ainda, a seção de perguntas e respostas contou com amplo engajamento da audiência, e o seminário foi um sucesso!

Davis-Thompson Foundation

SEMINAR REVIEWS

Patologia Mamária

27 de Outubro, 2021

Brazilian/Portuguese Series
Dra. Adelina Gama
Universidade de Trás-os-Montes e Alto Douro

Nesse webinar, Dra. Adelina compartilhou uma apresentação repleta de informações relevantes sobre neoplasias de glândula mamária em pequenos animais. Dra. Adelina cobriu tópicos como histomorfologia mamária, passando por avaliação macroscópica e microscópica, sistemas de classificação de neoplasias mamárias e marcadores imunohistoquímicos com foco diagnóstico e prognóstico. O webinar foi um sucesso entre os participantes!

Davis-Thompson Foundation

SEMINAR REVIEWS

VOICES IN PATHOLOGY: LATINXS

26 November 2021

By Rachel L. Autran L. T. Neto

This past month's Voices in Pathology series was primarily dedicated to the energetic and lovely colleagues from Latin America.

Needless to say it was a great honor to be the host and mediator of this virtual gathering! The invited panelists proudly represented their respective nationalities and cultures: Drs. Ingrid Pardo (Colombia), Federico Giannitti (Argentina), Francisco Carvallo (Chile), Melissa Macías Rioseco (Mexico), Paola Barato (Colombia), Sofía Rosales (Mexico).

Our colleagues shared their heartwarming personal histories from childhood, upbringing, professional journeys, and dreams or goals still under pursuit. It always amazes me how unique our backgrounds are, yet paths of struggles, perseverance, and hope tend to be a common and relatable factor, which brings us together unconsciously.

Personally, I find it so comforting to listen from whom I have always admired their testimonies of obstacles they had to overcome, real-life internal and external battles, failures and victories that we all go through. It calms our hearts and minds, and serves as a potent fuel to keep going! And, in my view, sharing vulnerable stories like those is always a sign of empathy and modesty – so necessary for today's world.

The second portion of our discussion was tailored to specific topics that we have all been through. Our panelists had a spirited deliberation about the Latin@ stereotypes – facts and myths (like spicy foods, siestas, underestimating our own professional training and self-doubts); expectations vs. realities of moving, studying, or working abroad; family and community support; and VERY useful advice for young latin@s pursuing career in veterinary pathology.

It was highly gratifying to be part of such vivid debate and interacting with participants from so many different countries. I am positive we all left the meeting in a high inspiring note and even more connected! ¡Viva la Fundación! Viva a Fundação!


Dra. Ingrid Pardo


Dr. Federico Giannitti


Dr. Francisco Carvallo


Dra. Melissa Macías-Rioseco


Dra. Paola Barato


Dra. Sofía Rosales

DIAGNOSTIC EXERCISE

Case # **171** Month: **August** Year: **2021**

Contributors: Omar Gonzales-Viera DVM, MS, PhD, Anatomic Pathology Resident, California Animal Health and Food Safety (CAHFS), Davis branch, UC Davis; Mark Anderson DVM, PhD, DACVP, Professor Emeritus, CAHFS, Davis branch, UC Davis; Patricia Pesavento DVM, PhD, DACVP, Faculty, School of Veterinary Medicine, UC Davis, CA. E-mail address for the correspondent contributor: gonzalesviera@ucdavis.edu

Clinical History: Two raccoons died in a pre-release rehabilitation pen in an interval of 1.5 weeks after appearing healthy. The second raccoon, a juvenile female, was submitted for postmortem examination.

Necropsy Findings: In the small intestine, the subserosa is markedly hyperemic/congested (Fig. 1) with abundant watery, semi-translucid content and large amounts of tan-white mucus. The intestinal wall is thickened, and the mucosa is smooth and overlaid by thick mucus (Fig. 2). The large intestine contains moderate amounts of tan-yellow, mucoid digesta. Mesenteric lymph nodes are enlarged, the parenchyma is red and mildly protrudes on cut section.

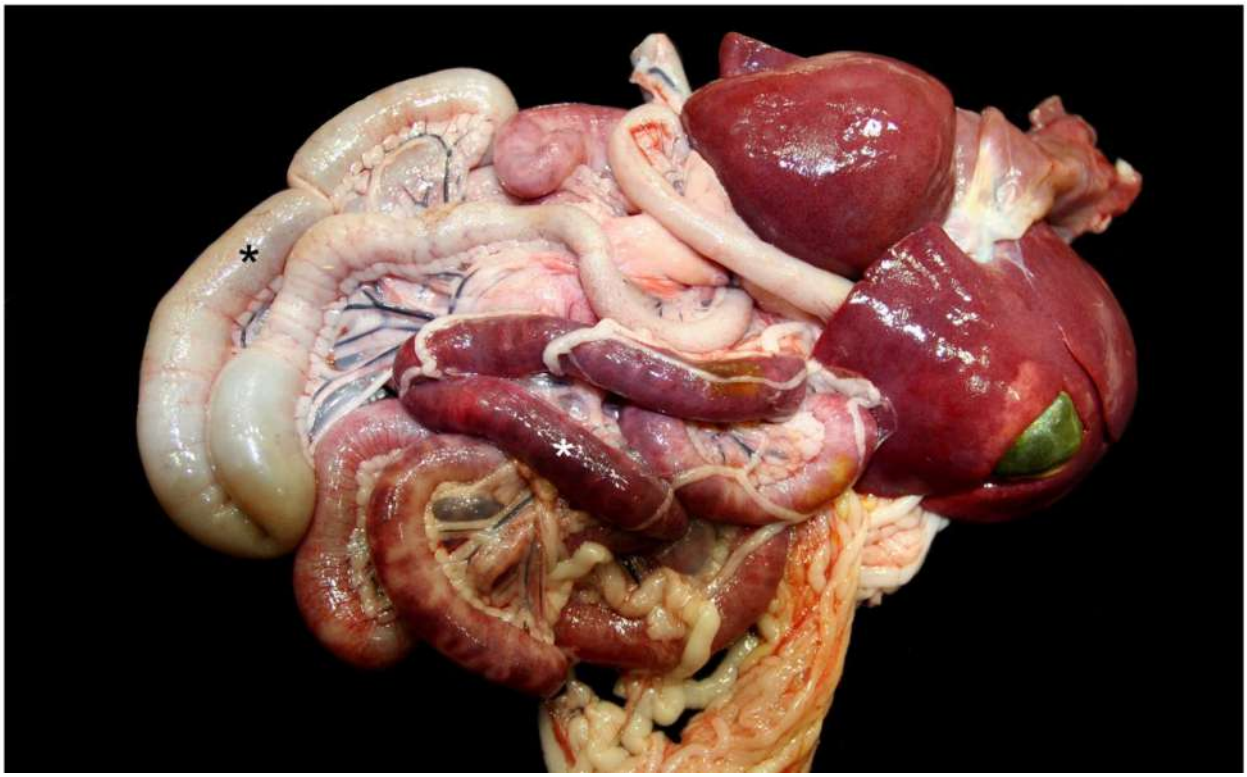


Figure 1. Digestive tract, raccoon, observed the dark-red and slightly sacculated appearance of the small intestine (white asterisk). The large intestine does not depict significant gross findings (black asterisk).

DIAGNOSTIC EXERCISE

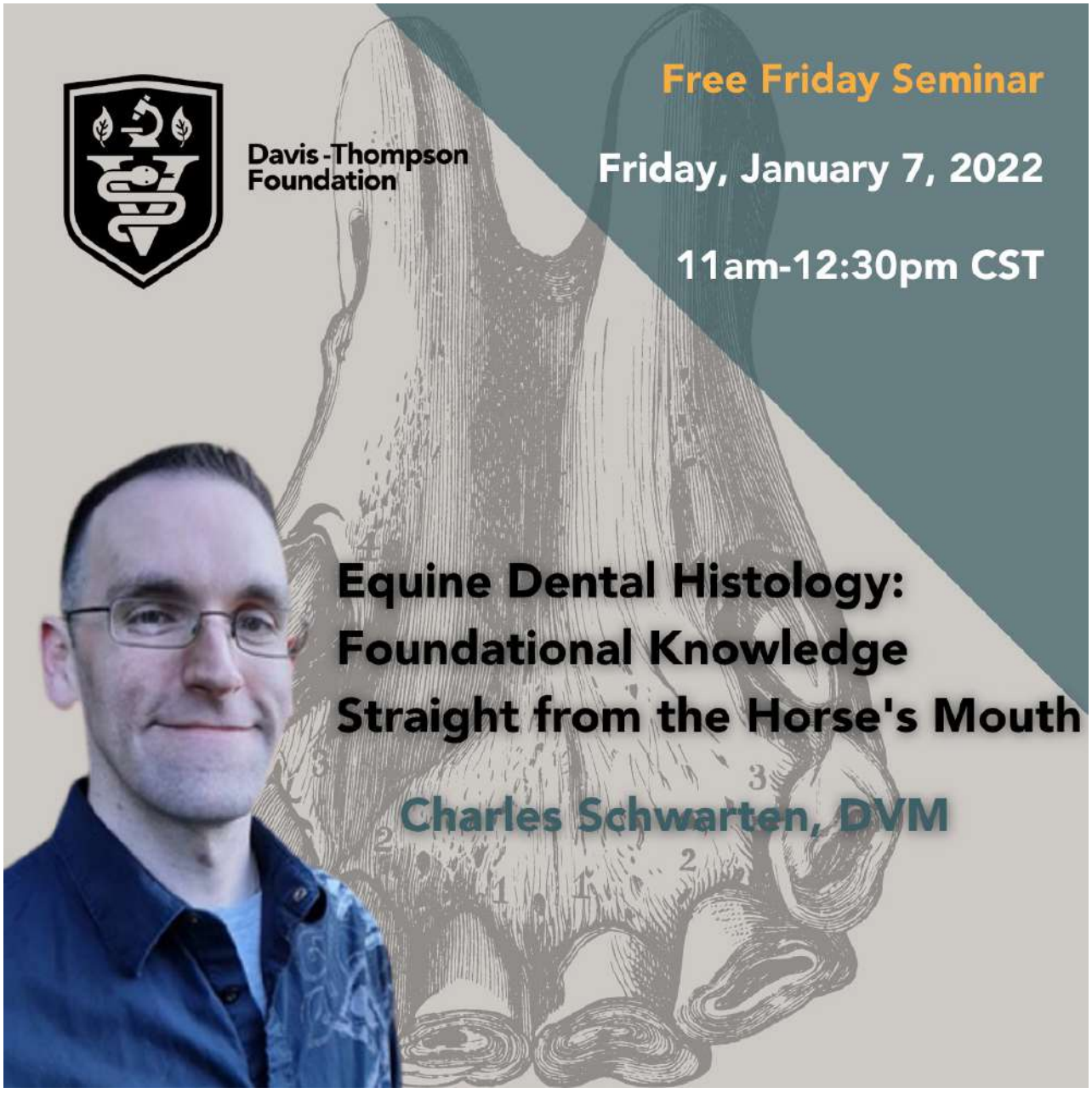
Figure 2. Jejunum, raccoon, two open segments of the jejunum, the mucosa is markedly smooth and covered with tan-white mucus.

Follow-up questions:
Please provide:
- *Typical microscopic findings of the disease*
- *Etiological diagnosis*
- *Most common blood work abnormality.*

Associate Editor for this Diagnostic Exercise: Patricia Pesavento
Editor-in-chief: Claudio Barros

Click here for answers

EQUINE DENTAL HISTOLOGY



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AQUACULTURE PATHOLOGY

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FREE FRIDAY SEMINARS

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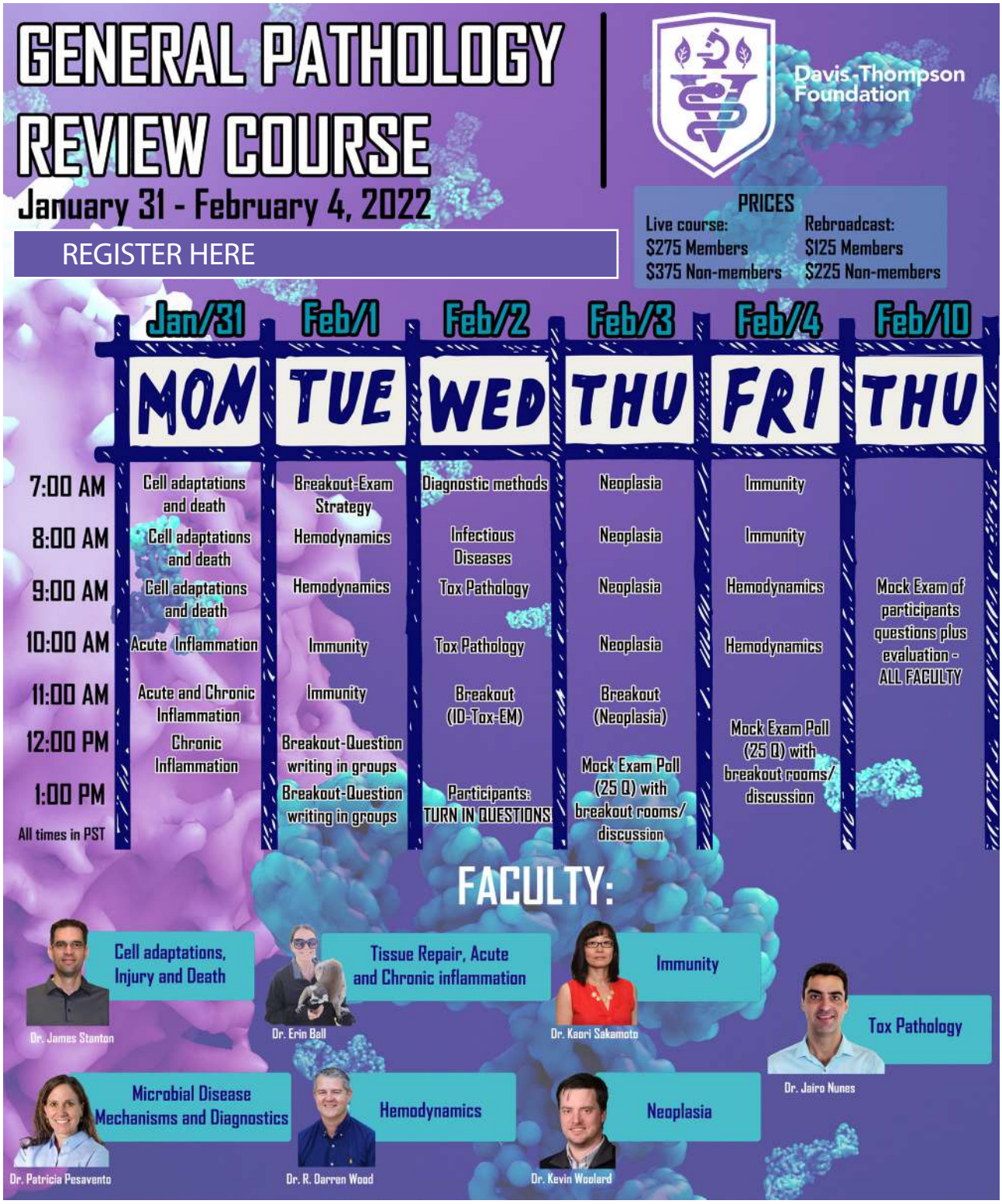
COSTA RICAN MEETING

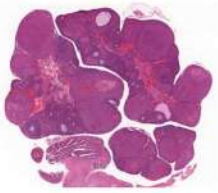
Click here to register

GEN PATH REVIEW



BSTP CORNER

Virtual Continuing Education Symposium 5: Female Reproductive System
Tuesday 8th – Thursday 17th March 2022
13.00 – 16.30 (GMT+0/UCT+0)



CES 5 will be held as a virtual event using Zoom on the afternoons of Tuesday 8th, Wednesday 9th, Thursday 10th, Tuesday 15th, Wednesday 16th and Thursday 17th March 2022, from 13.00 – 16.30 (GMT+0/UCT+0) each day.

Continuing Professional Development: *Royal Society of Biology CPD credits will be applied for.*

This Continuing Education Symposium will cover an overview of the female reproductive system in preclinical animal species.

Detailed information, including the programme and a registration form will be available in September/October 2021.

If you would like further information, have any queries or would like to reserve a place, please contact the BSTP Secretariat – **bstpoffice@aol.com**

or visit **http://www.bstp.org.uk/events/ces-5-female-reproductive-system/**

Virtual Continuing Education Symposium 6: Male Reproductive System
Tuesday 5th – Thursday 14th July 2022
13.00 – 16.30 (GMT+1/UCT+1)

CES 6 will be held as a virtual event using Zoom on the afternoons of Tuesday 5th, Wednesday 6th, Thursday 7th, Tuesday 12th, Wednesday 13th and Thursday 14th July 2022, from 13.00 – 16.30 (GMT+1/UCT+1) each day.

Continuing Professional Development: *Royal Society of Biology CPD credits will be applied for.*

This Continuing Education Symposium will cover an overview of the male reproductive system in preclinical animal species.

Detailed information, including the programme and a registration form will be available in December 2021/January 2022.

If you would like further information, have any queries or would like to reserve a place, please contact the BSTP Secretariat – **bstpoffice@aol.com**

or visit **http://www.bstp.org.uk/events/ces-6-male-reproductive-system/**

BSTP CORNER

DATES FOR FUTURE EVENTS TO BE ORGANISED BY THE BSTP:

Future BSTP events are as follows:

10th, 11th & 12th November 2021	**36th Annual Scientific Meeting – Pathology of mice with human immune systems (HIS mice)**
26th November 2021	**BSTP Annual General Meeting**
8th – 17th March 2022	**CES 5 - Female Reproductive System**
5th – 14th July 2022	**CES 6 - Male Reproductive System**
November 2022	37th Annual Scientific Meeting & AGM
March 2023	CES 7 - Infectious diseases in laboratory animals
July 2023	CES 8 - Nervous System
November 2023	38th Annual Scientific Meeting & AGM
March 2024	CES 9 - Urinary System
July 2024	CES 10 - Digestive System
November 2024	39th Annual Scientific Meeting & AGM
March 2025	CES 11 - Cardiovascular System
July 2025	CES 12 - Endocrine System
November 2025	40th Annual Scientific Meeting & AGM
March 2026	CES 13 - Urinary System
July 2026	CES 14 - Lymphoid & Haematopoietic Systems
November 2026	41st Annual Scientific Meeting & AGM
March 2027	CES 15 - Musculoskeletal System & Skin

The order of the CES will depend on the availability of high-quality speakers who are world experts in their particular field to present at the relevant meeting.

For details of webinars visit - http://www.bstp.org.uk/events/bstp-webinars/ or http://www.bstp.org.uk/non-bstp-events-and-webinars/

If you would like to receive information on any of these events as soon as the information becomes available, you need to make sure that the BSTP have your contact details on the mailing list.

You can withdraw your consent to receive communications from the BSTP at any time, by means of a written/emailed request for removal from the database.

Although the BSTP is in contact with similar organisations in Europe and the USA it is the policy of the BSTP **NOT** to pass on details of our mailing list.

The BSTP's Data Protection Policy can be found at http://www.bstp.org.uk/governance/

For more information on any of these meetings, keep checking the website - http://www.bstp.org.uk/events or contact the BSTP Secretariat - bstpoffice@aol.com

Details of future meetings are correct at the time this information is produced, the BSTP will not be held responsible for any changes to dates, venues and topics of these events.

If you have any queries, or require further information regarding this symposium, please contact:

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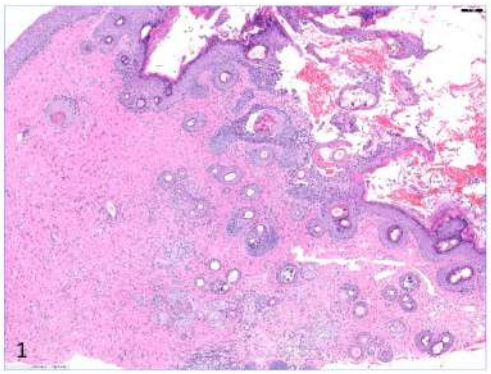
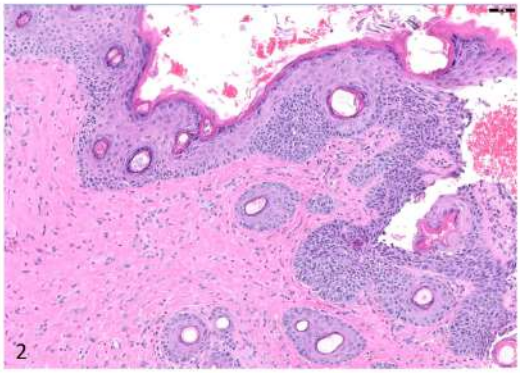
IDEXX CASECONNEXX CORNER

Signalment: 17-year-old, male neutered, domestic shorthair cat

Source/ History: Carcinoma in situ diagnosed at the rDVM at nasal planum/skin junction – excised today with wider margins





Figures 1. (10X magnification, H&E stain) and 2. (20X magnification, H&E stain) Segmentally, the epidermis and follicular infundibular epithelium is expanded by atypical epithelial cells that are irregularly piled with loss of nuclear polarity and loss of normal stratification. The dysplastic cells appear confined by the basement

Microscopic Description:
Examined is an incisional sample of haired skin and nasal planum. Segmentally, the epidermis and follicular infundibular epithelium is expanded by atypical squamous epithelium arranged in irregularly piled and dysplastic trabeculae and few islands with loss of the normal stratification. The epithelial cells appear confined by the basement membrane. There is mild anisocytosis and anisokaryosis in the epithelial cells. There are mild numbers of lymphocytes, plasma cells and scattered neutrophils and occasional clusters of histiocytes in the dermis. There is mild orthokeratotic hyperkeratosis. Multifocally within hair follicles there are mild to moderate numbers of mites. There is mild mural lymphocyte infiltration of follicular epithelium and small numbers of scattered small lymphocytes within the epidermis.

Microscopic Interpretation:
1) Segmental squamous cell carcinoma-in-situ
Margin assessment: Incompletely excised - dysplastic cells extend to the lateral margin of the sample in one region. The dysplastic cells appear completely excised along the deep margin

2) Mild to moderate numbers of intrafollicular mites (consistent with Demodex spp.) with minimal to mild lymphocytic mural folliculitis, mild lymphoplasmacytic and occasionally histiocytic dermatitis and orthokeratotic hyperkeratosis

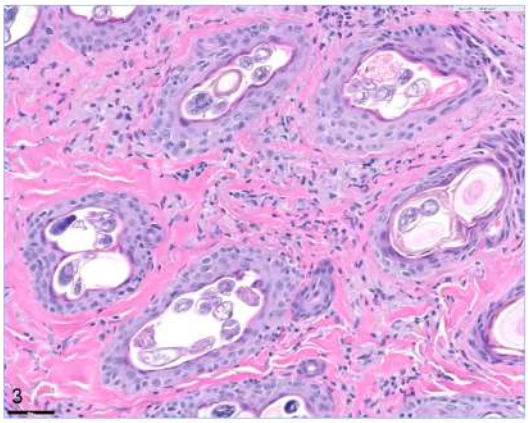


Figure 3. (40X magnification, H&E stain) Multifocally within the lumen of hair follicles are mild to moderate numbers of mites with a thin chitinous exoskeleton, numerous small basophilic spherical bodies internally and occasional, short, eosinophilic appendages.

Comments:
Histologic examination of the submitted incisional biopsy revealed a segmental region of dysplastic epidermis and follicular epithelium consistent with carcinoma-in-situ. There is no overt evidence of basement membrane invasion in the examined sections to suggest transformation to invasive squamous cell carcinoma. Additionally, there are mild to moderate numbers of intrafollicular mites consistent with Demodex spp. and mild associated dermal and follicular inflammation.

Follicular demodicosis (*Demodex cati*) has been associated with feline multicentric cutaneous squamous cell carcinoma *in situ* (Bowen's disease). In one report, they postulated that local altered immune surveillance due to epithelial dysplasia might have predisposed the skin to localized multiplication of Demodex. Feline immunodeficiency virus (FIV) infection (3 out of the 5 cats were positive for FIV on serology) could have also contributed to the development of these lesions by causing immune suppression and predisposing to both papillomavirus-induced epithelial dysplasia and *Demodex cati* infestation.

While the nasal planum is a common location for solar related disease, given the presence of Demodex mites in this sample, ruling out Bowen's disease in this patient is likely warranted.

Reference: GuaguÈre et al. (1999), Demodex cati infestation in association with feline cutaneous squamous cell carcinoma in situ: a report of five cases. Veterinary Dermatology, 10: 61-67

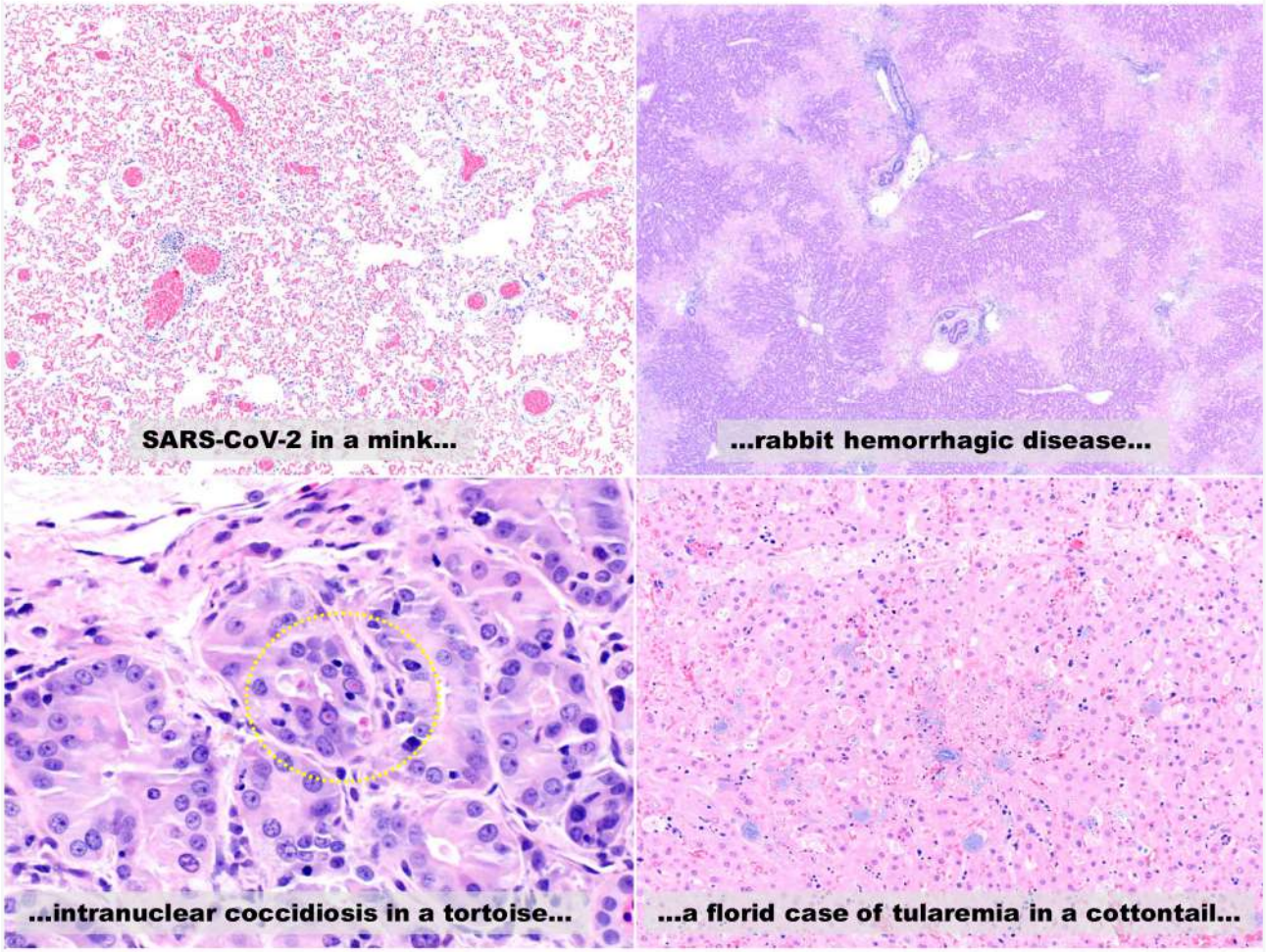
Case by
Joseph Malatos, DVM, DACVP

IDEXX

CaseConnexx
Visit CaseConnexx.com to Register

MISCELLANEOUS ANNOUNCEMENTS

AAVLD Diagnostic Pathology Slide Seminar Boxes Available



....and many more!

Slide sets from the 64th annual AAVLD meeting diagnostic pathology slide seminar are now available for purchase at $60*

***Includes shipping to the US; international shipping is also available but the recipient will be asked to cover the shipping costs. First come first served. Order forms available at:**
https://aavld.memberclicks.net/aavld-diagnostic-pathology-slide-seminar#/

Contact Dr. Javier Asin (jasinros@ucdavis.edu) for questions

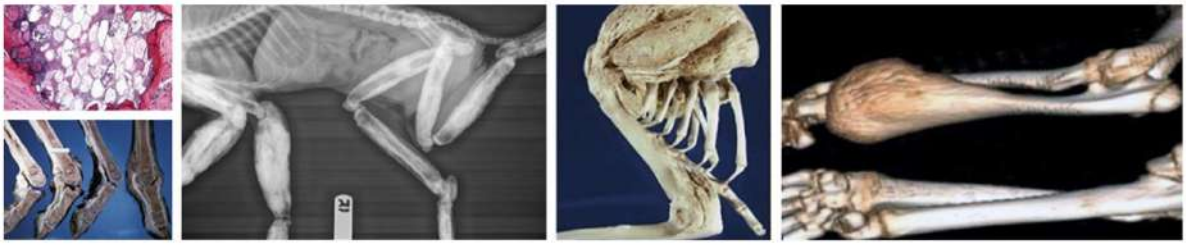
MISCELLANEOUS ANNOUNCEMENTS

Discover an Extraordinary Compilation of Complimentary Bone Pathology Slideshows

Roy Pool, DVM, PhD, Clinical Professor, Veterinary Pathobiology, and the Department of Small Animal Clinical Sciences in the College of Veterinary Medicine and Biomedical Sciences at Texas A&M University, want to share an extensive group of Bone Pathology PowerPoint slideshows.

Dr. Pool has collected common and uncommon bone pathology cases and examples for decades. The slideshows include seminars, lectures, and collections containing thousands of images and explanations of bone tumors; lesions; oral, dental, and pharyngeal disorders and tumors; and orthopedic disorders.

Review the extensive collection, download resources of interest, and use these resources in your own lectures and presentations at: https://veteducator.com/bone-path-library/



Contact the Center for Educational Technologies (CET) Help Desk at cethelpdesk@cvm.tamu.edu *with any questions or for technical assistance.*

The CENTER for EDUCATIONAL TECHNOLOGIES

TEXAS A&M UNIVERSITY Veterinary Medicine & Biomedical Sciences

MISCELLANEOUS ANNOUNCEMENTS

Membership Fees:
$50 - Professionals in US, Canada, and Europe
$30 - Professionals in Latin America
$25 - Students in US, Canada, and Europe
$15 - Students in Latine America

CLICK HERE to learn more.
Use this link to join: https://davisthompsonfoundation.regfox.com/lcpg-membership

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

MISCELLANEOUS ANNOUNCEMENTS

www.vcgp.org is now live!

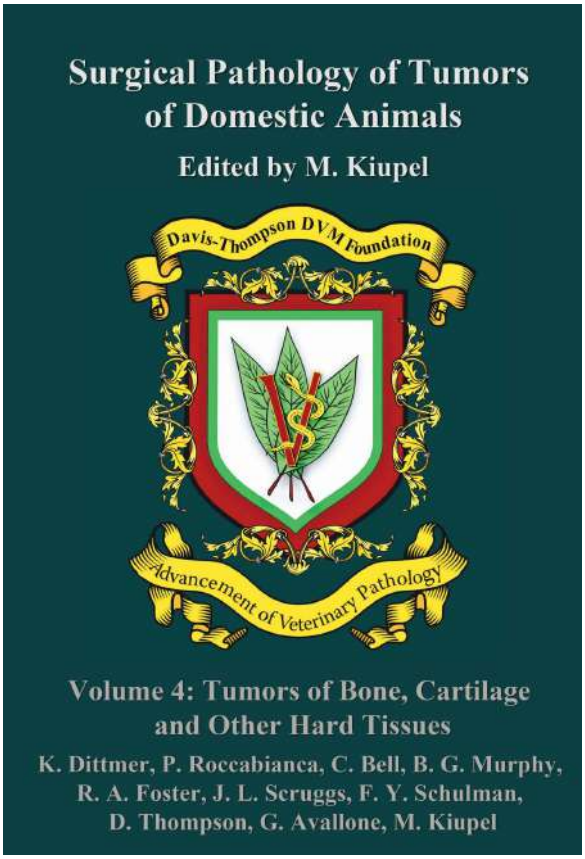
The goal of the website and the mission of VCGP is to improve care for animals with cancer through standardization of tumor evaluation and reporting. This website provides guidelines for assessing common parameters used in the light microscopic assessment of animal tumors as well as complete protocols recommended for investigators seeking to establish tumor grading systems. VCGP created this website to maintain these guidelines and protocols as centralized resources for veterinary anatomic and clinical pathologists to assist in reporting and gathering relevant information about aggressive tumors. Detailed protocols and guidelines are educational and research resources while the concise versions are user ready checklists for diagnosticians and editors/reviewers of manuscripts. These are living documents that will be updated and are continuations of manuscripts published by our veterveterinary pathologist colleagues.

See: International Guidelines for Veterinary Tumor Pathology: A Call to Action - https://doi.org/10.1177/03009858211013712

It's sweater weather! Grab a cozy Davis-Thompson Foundation sweater to get you through this winter and to show off the mighty pathologist that you are! Get it HERE

...and T-shirts are still available!

MISCELLANEOUS ANNOUNCEMENTS



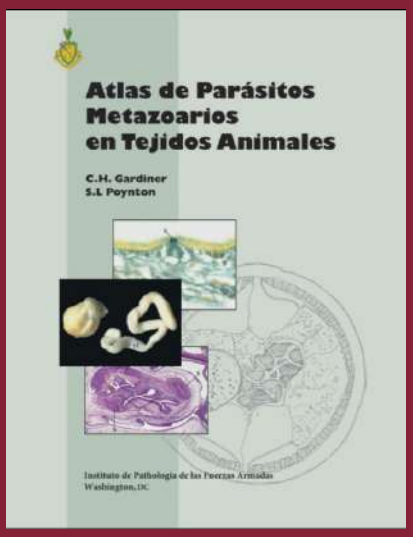
CLICK HERE to order your copy today!

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.



Atlas De Parasitos Metazoarios En Tejidos Animales - Click Here to Get a Digital Download!