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F.A. Uzal, DVM, MSc, PhD



**Davis-Thompson  
Foundation**

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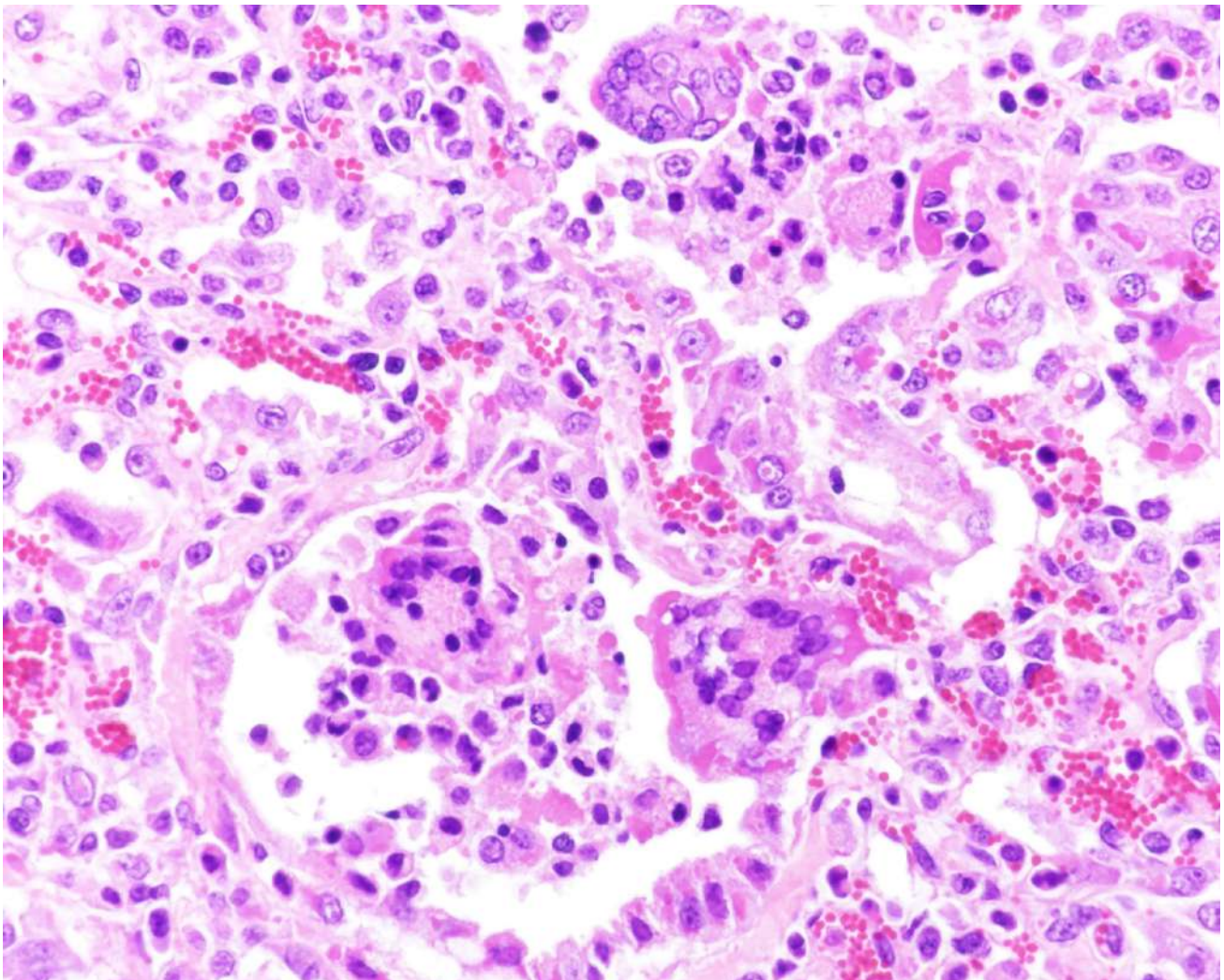
A tax-exempt, donative,  
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For the advancement of veterinary  
and comparative pathology

# THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

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April 2022

VOL. 52



## INSIDE THIS ISSUE

### Monthly cover photograph winner: Sawang Kedsangsakonwut

*Institution:* Department of Pathology, Faculty of Veterinary Science, Chulalongkorn, Thailand

*Signalment:* A 6-month-old, recently imported pygmy goat kid (*Capra hircus*).

*Diagnosis:* Lung, pneumonia, bronchointerstitial, necrotizing and lymphocytic, with syncytial cell formation and eosinophilic intracytoplasmic inclusion body in bronchiolar epithelium

*Disease:* Peste-des-petits-ruminants (PPR)

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## COMMENTARY FROM THE FOUNDATION'S CEO

Dear colleagues

Welcome to the April issue of the Davis/Thompson Foundation Newsletter, prepared as usual by our fantastic editors Stephanie Shrader, Javier Asin and Jeann Leal.

This month, in addition to our already traditional outstanding material on training opportunities and much more, we are delighted to share with you Dr Grant Maxie's editorial on "Clarity of expression in scientific writing". Dr Maxie is a real giant in the world of veterinary pathology. This masterpiece is a product of his many years of experience as an editor, including, amongst others, publications such as Jubb, Kennedy and Palmer's Pathology of Domestic Animals (now on its 6th Edition), The Canadian Veterinary Journal and The Journal of Veterinary Diagnostic Investigation. What we have here is a cutting-edge editorial, and anybody involved in scientific writing will benefit from this article, now and for a very long time to come. Our heartfelt thanks to Dr Maxie for his generous contribution!

We are also extremely proud to share with you the news that our very own Dr Bruce Williams, former President and CEO, and current Treasurer of the Davis Thompson Foundation, was recently awarded the Dean's Distinguished Service Award from The University of Georgia, his Alma Mater. Bruce was recognized, amongst other accolades, for his tireless training of young pathologists all over the world. What a wonderful achievement. Congratulations Bruce!

Enjoy!

Paco Uzal  
Chief Executive Officer  
Davis-Thompson Foundation



**Davis-Thompson  
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## DR. MAXIE'S GUEST EDITORIAL

### Clarity of expression in scientific writing

Grant Maxie, DVM, PhD, Diplomate ACVP  
Editor-in-chief  
Journal of Veterinary Diagnostic Investigation  
[gmaxie@uoguelph.ca](mailto:gmaxie@uoguelph.ca)  
<https://journals.sagepub.com/home/vdi>



Dr. Francisco (Paco) Uzal, lab director, pathologist, and inveterate volunteer, is one of the leading authors in the *Journal of Veterinary Diagnostic Investigation* and also serves as JVDI Images Editor. Paco has often seen my editing in action, and asked me to share some of my editing conventions with fellow pathologists in the Davis-Thompson Foundation newsletter, which I'm pleased to do.

Scientific writing, whether used in autopsy or biopsy reports, journal manuscripts, or board-type examinations, should follow the ABCs – be **accurate**, **brief**, and **clear**. The guidelines that I follow for grammar, syntax, spelling, and taxonomy derive from published international standards, such as dictionaries, textbooks, style manuals, taxonomy standards (e.g., the International Committee on Taxonomy of Viruses), as are cited in journal Instructions for authors and elsewhere. Although I may be a thorn in the side of some, I do get the occasional gracious comment: from the author of a recent manuscript "Thank you for the rigorous editing and formatting. Among them were many helpful or instructive notes!"

Here are some of the canned comments that I use most commonly when editing:

- o JVDI uses "**autopsy**" or "postmortem examination" in preference to "necropsy". See editorial: Maxie G. Autopsy/necropsy, diagnosis/detection ... what's in a word? J Vet Diagn Invest 2016;28:87.
- o **Present** - rather than 'dogs present with...' (jargon), use "dogs are presented with ..."; "the horse had ..."; etc. (Humans present themselves for examination, animals do not.) A lesion can never present itself – lesions occur, are seen as, display as, etc.
- o Signs and symptoms – **signs** (objective) are observed; **symptoms** (subjective) are reported by humans; we observe only *clinical signs* in animals (fever, etc., animals cannot relay their 'symptoms' to us as humans can – headache, etc.). Given that animals cannot express symptoms, their status may be termed *subclinical* rather than *asymptomatic*.



## DR. MAXIE'S GUEST EDITORIAL

- o Disease agents or their products are **detected**, identified, or characterized, not *diagnosed* by laboratory tests (by *testing*, not by *diagnostics*). Diseases are diagnosed in animals, by clinicians or pathologists, based on clinical and/or pathology assessment and/or supported by ancillary tests.
- o **Agent**  $\neq$  **infection**  $\neq$  **disease**. Agents can be present as commensals without causing disease. Infection can occur without resulting in overt disease.
- o **Pathology** = the study of disease. **Lesions** are the findings.
- o **Multifocal** is a redundant modifier of lesions that are inherently *multi* and *focal*, including foci, nodules, abscesses, petechiae, aggregates, masses. I find that *multifocal* is likely the most over-used term in the pathologist's lexicon, used especially egregiously in "multifocal foci".
- o Report mitotic activity as **mitotic count** (MC) and not *mitotic index* (MI). Meuten DJ, et al. Mitotic count and the field of view area: time to standardize. Vet Pathol 2016;23:1–15.
- o **Eponymous terms** are used in a descriptive or adjectival sense, are not true possessives, and hence do not require an 's (Gram stain, Masson trichrome stain, etc.). Note: Gram stain, but gram-positive or gram-negative bacteria (CDC Style Guide). "The transition of eponyms to the nonpossessive form is consistent with a linguistic perspective and with trends in English usage." AMA Manual of Style, 11th ed.
- o Gross or histologic examinations themselves are not **pathologic**, i.e., abnormal. Hence, pathologic, histopathologic, and cytopathologic *findings* or *features* pass muster, but any of these terms modifying "lesions" are redundant – *histologic lesion* is appropriate; *histopathologic lesion* is redundant.
- o Which leads us naturally to **-ic** versus **-ical**. The shorter form, -ic, is generally preferred (personal preference, or common usage), e.g., bacteriologic, epidemiologic, etiologic, histologic, morphologic, parasitologic, serologic, virologic, zoologic, but this rule is not absolute, and some adjectives are only used in the -ic form, e.g., *genetic*, but never *genetical*, and some are only -ical, *chemical* but never *chemic*. Some distinctions are clear - *economic* refers to the area of financial activities; *economical* means good value, inexpensive, not wasteful. The *AMA Manual of Style* states that the most important aspect is to use the terms consistently throughout the article, chapter, or publication, but that "... usually the '-al' may be omitted unless its absence changes the meaning of the word." I delete most of the -als.

## DR. MAXIE'S GUEST EDITORIAL

- o Eliminate **redundancy** in descriptions: ~~large in size, soft in consistency, round in shape, red in color,~~ case number 1. ELISA ~~test~~ - test is redundant; ELISA = enzyme-linked immunosorbent assay; A = assay.
- o Humane **euthanasia**. *Humane* is redundant, given that euthanasia means good death, and the obverse would be "inhumane euthanasia". As per the AVMA Guidelines for the Euthanasia of Animals: "A good death is tantamount to the humane termination of an animal's life." <https://www.avma.org/resources-tools/avma-policies/avma-guidelines-euthanasia-animals>
- o Use the active voice and direct speech, and avoid the use of **filler words**: *it is, it was, there is, there has been, it is important, it is hypothesized that, it was predicted that, there is evidence suggesting that, in order to, there is a significant relationship, the presence of.* <https://www.scitechedit.com/en-gb/writing-tips/item/18-tips-to-improve-your-science-writing>
- o **Stacked modifiers**. My preference is to form diagnoses as phrases in English, as we would speak, e.g., *severe, acute, fibrinous pneumonia*, rather than the cumbersome *pneumonia, fibrinous, acute, severe*.
- o **Hyphenated compound modifiers**. Examples: reverse-transcription real-time PCR (RT rtPCR); 96-well ELISA plates; T-cell-rich, large B-cell lymphoma (but when used free-standing, T cells, B cells).
- o **Parasitosis** = the parasite is pathogenic and harms its host = active disease; **parasitiasis** = the parasite is potentially pathogenic but does not harm its host = the carrier state, and applies to the incubation period. A hookworm infection in which there are too few worms to cause significant damage is a case of *parasitiasis*; a hookworm infection in which the worms cause clinical damage is a case of *parasitosis*; Kassai T, et al. Standardized nomenclature of animal parasitic diseases (SNOAPAD). Vet Parasitol 1988;29:299-326.

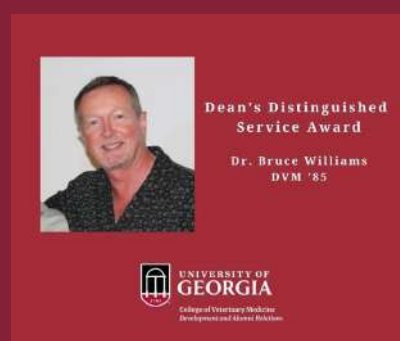
These notes may be more than what Paco bargained for (I have many more pages of editing conventions!), but I do hope that they help pathologists, especially those in training, to develop good writing habits and to produce accurate, brief, and clear prose communications.

# FOUNDATION'S ANNOUNCEMENTS

## Dr. Bruce Williams, Foundation's treasurer, receives the Dean's Distinguished Service Award from UGA

From UGA alumni FB page:

Dr. Williams is a graduate of UGA in the DVM class of 1985. He is the senior pathologist of the Department of Pathology at the Army's Joint Pathology Center where he has served since 1989. He is also a prior President and Chief Executive Officer of the Davis-Thompson Foundation for the Advancement of Pathology - the largest not-for-profit organization in veterinary pathology in the world, and still serves as its Chief Financial Officer.



In the last 30 years, he has not only trained over 150 pathology residents for the Department of Defense, but his outreach has reached thousands of other pathology trainees around the world. He has directed and lectured at over 100 pathology courses, given numerous lectures at schools on six continents, and published numerous book chapters and peer-reviewed articles on the pathology of all species of animals. His online lectures on veterinary pathology have garnered millions of views and considered required watching for pathology trainees around the world. He is especially proud of his 40+ years in military service in uniform and as a civilian, and has no plans on ever retiring.



# SEMINAR REVIEWS

## Bone Marrow Histopathology

Dr Rose Raskin

11 MARCH 2022  
SEMINAR REVIEW

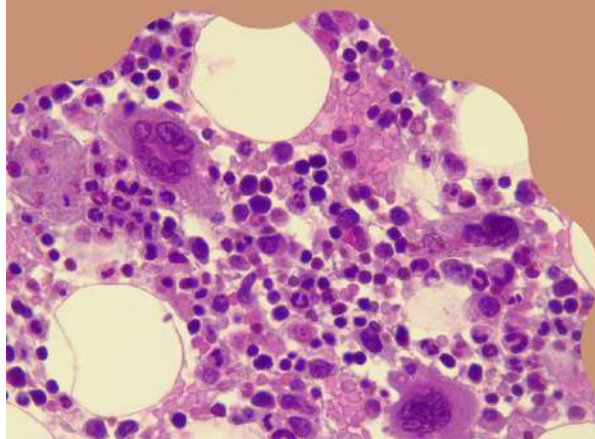


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In this extremely important webinar, Dr Raskin shared valuable information on Bone Marrow Histopathology.

The webinar was a hit, with over 700 attendees from all over the world!

Dr Raskin shared information on topics such as bone marrow sampling, and presented clinical cases with bone marrow histological findings. The Q&A section generated important discussions and attendees were really engaged!





## SEMINAR REVIEWS

### Workshop on Pathology of Ruminant Diseases, including Wildlife

University of Veterinary and Agricultural Sciences

Lahore, Pakistan March 21-23, 2022

by Dr. Corrie Brown



The third national GHPN veterinary pathology workshop was held over three days in Lahore, Pakistan, in late March. Sixty veterinarians from around the country came to the University of Veterinary and Animal Sciences (UVAS) Lahore to learn more about ruminant and wildlife diseases. This college of veterinary medicine is the oldest veterinary school on the subcontinent, and boasts the oldest veterinary teaching hospital in all of Asia. Facilitators from the Global Health Pathology Network (GHPN) included Corrie Brown, Patty Gaffney, and Ishtiaq Ahmed. Over three days, each morning, participants reviewed case-based material on various diseases of ruminants and wildlife, with a focus on understanding pathogenesis and formulating morphologic diagnoses. Faculty members from the Department of Pathology, UVAS Lahore, also helped guide the small group discussions of cases. Afternoons were spent in necropsy, with an emphasis on learning systematic processes and determining cause of death. There were numerous highlights of the course. An alumni reunion on the first evening featured ethnic dancers and also several competitions, including sharpshooting. Corrie Brown won the award for best female sharpshooter (!), and the prize was a large wall plaque with a saying from the Koran about the importance of strong friendships, eminently applicable for the connections of the GHPN with Pakistani colleagues. A more academic highlight occurred when two spotted deer were submitted for necropsy from a local zoo and Patty Gaffney, head pathologist at the San Diego Zoo, was able to conduct a very practical session on pathology of wildlife. Dr. Ishtiaq Ahmed, the driving force behind the workshops, and also a member of the GHPN, described how monthly telepathology sessions with colleagues in the US, organized with ClassSarah Corner, also of the GHPN, have been established and can be accessed by anyone in Pakistan.

Also, Dr. Ishtiaq described how he and other colleagues have recently re-invigorated the Pakistani Society of Veterinary Pathology. As the two US visitors were leaving, colleagues in Pakistan were already planning the next national GHPN workshop. The GHPN is very grateful for the strong friendships with Pakistani colleagues, and the opportunities to connect and collaborate.



# SEMINAR REVIEWS

## 1ST COSTA RICAN MEETING OF THE DAVIS-THOMPSON FOUNDATION

25-27 FEBRERO 2022



**Dr. Francisco Uzal**



**Dr. Leonardo Minatel**

### Participants' reviews



**Excelente la posibilidad simultánea de presencial y virtual, y salió super bien.**

**Me pareció una propuesta interesante, y muy accesible, desde su formato híbrido, hasta lo económico de la inscripción. No se podía dejar pasar la oportunidad de compartir de manera tan cercana con ponentes de renombre mundial. Muy buena organización.**

**Excelente seminario, de gran utilidad y muy práctico.**

**Excelente, en mi caso aproveché en asistir a las charlas de manera virtual, y me permitió observar mejor las imágenes histológicas. Y asistir de manera presencial al taller práctico.**





## SEMINAR REVIEWS

### BUGS, PUGS, AND DRUGS: AN OVERVIEW OF INFLAMMATORY NEUROLOGIC DISORDERS

25 FEBRUARY 2022



Participants' reviews

Excellent seminar with a cool subject.  
That's just what I needed.

Thank you so much to Dr. Koehler!  
Amazing presentation. I learned a lot.  
Thank you! Thank you! Thank you!

I found it very interesting,  
engaging and useful.

Very engaging and entertaining,  
as well as helpful and relevant.

Great discussion and examples  
of infectious agents we don't  
really see in New Zealand -  
thank you!



Dr. Jey Koehler

# SEMINAR REVIEWS



Davis-Thompson  
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Dr. Martinez-Romero



Dr. Kelly



Dr. Donovan



Dr. O'Brien

## Cardiovascular pathology

BY SOFIA ROSALES-MARTINEZ

On February 22nd the Davis-Thompson Foundation brought together a group of first-class speakers in heart pathology, which presented a set of four wonderful lectures about heart diseases in different species (great apes, dogs, cats and horses) as well as the last advances in experimental pathology concerning heart devices assessment. It is worth mentioning that some heart dissection techniques were provided, so they can be used in different diagnostic settings such as sudden death investigations and assessment of congenital heart disease.

Definitely, a great opportunity to recall information and update knowledge on this complex and interesting body system!

*From the audience's point of view:*

*"The lectures cover a great deal of information. The links between the physiology, gross findings and microscopic lesions of the heart were well presented."*

*"All of the speakers were very knowledgeable and had excellent presentation skills. I can't wait to try out my new heart sampling techniques on the PM room."*

*"Great seminar full of helpful tips for both diagnostic and research-oriented cardiovascular pathology! All the speakers were very knowledgeable and put on great talks."*





# DIAGNOSTIC EXERCISE



Case: **184**; Month: **March**; Year: **2022**  
*Question Sheet*

Contributor: Anne Ching-Nga Tse, DVM, Diplomate ACVP (anne\_cn\_tse@afcd.gov.hk); Carlton Pak-Man Yuen, BVSc; Tai Lung Veterinary Laboratory; Agriculture, Fisheries and Conservation Department, Government of the Hong Kong Special Administrative Region, Hong Kong SAR.

**Clinical History:** Five-year-old, spayed, stray brown cow with generalized cutaneous nodules present for a week.

**Necropsy Findings:** The animal is in good nutritional condition. Several ticks are present on the ventrum and withers. Multifocally and widespread, affecting all areas of skin in a random distribution, there are variably sized (1-4 cm in diameter) cutaneous and/or subcutaneous nodules, sometimes with a targetoid appearance. A few nodules are ulcerated, and others have a central dense crust. On cut section, many nodules are well demarcated, with a light pink center delineated by a dark red haemorrhagic/hyperaemic line (acute infarcts). Similar nodules and ulcers are also present over the teats.

Skinning reveals extensive subcutaneous thickening with yellowish gelatinous material (oedema) as well as multifocal areas of dark red discoloration (haemorrhages). Multiple superficial lymph nodes are enlarged and haemorrhagic, with the right pre-scapular lymph node most severely affected, measuring 16x7x8 cm.

## Gross Images:



Figure 1



## DIAGNOSTIC EXERCISE



**Figure 2**

**Follow-up Questions:**

1. *What is your morphologic diagnosis?*
2. *What is the most likely etiologic diagnosis?*
3. *What are the expected histologic findings?*

\*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! A final document containing this material with answers and a brief discussion will be posted on the CL Davis website

**Associate Editor for this Diagnostic Exercise:** Ingeborg Langohr  
**Editor-in-chief:** Claudio Barros

[Click here for answers](#)

## III GUATEMALAN SEMINAR

The banner features a scenic background of a lake and a volcano under a sunset sky. In the top left corner, there are four logos: a red shield with a caduceus, a blue map of Guatemala, a green circular logo for FMVZ, and a circular logo for the University of San Carlos. The text 'III Guatemalan Seminar' is in large, bold, dark red letters. Below it, 'Patología cardiovascular' is written in large white letters. To the right, it says 'VIRTUAL' with a computer icon and 'en español'. The date '6 Abril 2022' is displayed with a large '6' and the time '8:00 am-11:45 am GT'. At the bottom right is a red anatomical illustration of a heart.

**III Guatemalan Seminar**

**Patología cardiovascular**

VIRTUAL  
en español

**Gisela Martinez-Romero**  
DVM, PhD, DACVP

**Enrique Aburto**  
DVM, PhD, DACVP

**6 Abril 2022**

8:00 am-11:45 am GT

[Click here to register](#)



# INVERTEBRATE PATHOLOGY DAY SEMINAR



**FULL-DAY SEMINAR**

VIRTUAL



Davis-Thompson  
Foundation

## **SPINELESS: PATHOLOGY OF THE 97 PERCENT**



**Submit your best  
invertebrate cases by  
MARCH 15, 2022!**

**ELISE LADOUCEUR**  
**KEYNOTE SPEAKER**

**Keynote speaker  
presentation + case  
presentations!**

**10:00AM-5:00 PM (EDT)  
APRIL 22, 2022**

[Click here to register](#)



## REWIND SERIES



Davis-Thompson  
Foundation

REWIND



**Free Friday Seminar**

**Friday, April 29, 2022**

Rewinding from 2020

**11am-12:30pm CDT**

### **Crocodilian pathology**

**Cathy Shilton**

**BSc, DVM, DVSc**



[Click here to register](#)

## SEMINAR SERIES IN SPANISH



Davis-Thompson  
Foundation



### Spanish Seminar Series

Seminarios en español  
10:00am-11:30am CDT



**MZO** ::::

**24**

**Serie especial teórico práctica:  
Dermatopatología básica 1: inflamacion**  
Joaquin Ortega, DVM, PhD, DACVP



**ABR** ::::

**28**

**Serie especial teórico práctica:  
Dermatopatología básica 2: neoplasias**  
Joaquin Ortega, DVM, PhD, DACVP



**MAY** ::::

**19**

**Revisión de patología endócrina**  
Phillip Sponenberg, DVM, PhD



**JUN** ::::

**23**

**Plantas tóxicas en Sudamérica**  
Franklin Riet-Correa, DVM, PhD  
Ernesto Odriozola, DVM, MS Phil

Click here to register for  
individual seminars

# AUSTRALIAN SEMINAR SERIES



Davis-Thompson  
Foundation



## Australian Seminar Series

1st semester 2022

Australian dates. See Foundation website for details and USA schedule.



**MAR** ::  
**26**

### Introduction to Fish Pathology

Eileen Henderson

10am-12pm AEST, 11am- 1pm AEDT, 8am-10am AWST



**APR** ::  
**30**

### Pathology of Infectious Diseases in Reptiles

Rob Ossiboff

10am-12pm AEDT/AEST, 8am-10am AWS



**MAY** ::  
**19-20**

### Foreign animal disease and outbreak preparedness workshop

Speakers to be announced

10am-2pm AEDT/AEST, 8am-12pm AWST



**JUNE** ::  
**18**

### Dermatopathology

Verena Affolter

10am-12pm AEDT/AEST, 8am-10am AWST

Click here to register for  
individual seminars



# BOLIVIAN SEMINAR



Davis-Thompson  
Foundation



## II SEMINARIO DE LA SUBDIVISIÓN BOLIVIANA



### Patología macroscópica del bovino y patologías respiratorias de cerdos.

JUEVES 5 DE MAYO 2022 – 10:00 - 15:00 CDMX



**Mario Bedolla**  
MVZ, MSc



**Alfonso Lopez**  
MVZ, MSc, PhD.

VIRTUAL  
A small icon of a computer monitor with two people silhouettes inside.  
en español

[Click here to register](#)



# LAB ANIMAL MEDICINE & PATHOLOGY



Davis-Thompson  
Foundation



**Friday**  
**May 6, 2022**  
**8:25am-5:45pm CDT**

## 8th Annual WNPRC & D-T Foundation Lab Animal Medicine + Pathology Seminar and International Mock-ACLAM exam



**Craig Franklin**



**Bettina Gentry**



**Brett Saladino**



**Joe Simmons**



**Jenny Coonen**



**Jessica Johnston**



**Rebekah Franklin**

**Seminar is FREE but  
registration is required!**



[Click here to register](#)

# SEMINAR SERIES IN PORTUGUESE



Davis-Thompson  
Foundation





## Seminar Series in Portuguese

2022

18:00-19:30 BST

 <div style="background-color: orange; color: white; padding: 2px 5px; font-weight: bold;">MAIO</div> <div style="background-color: white; color: black; padding: 2px 5px; font-weight: bold; border: 1px solid black;">18</div>	<p><b>Plantas tóxicas para animais de produção no Brasil.</b></p> <p><b>Fabio Mendonça</b> DVM, MSc, PhD</p>	<div style="background-color: orange; color: white; padding: 5px 10px; border-radius: 10px; font-weight: bold;">REGISTRATION</div>
 <div style="background-color: orange; color: white; padding: 2px 5px; font-weight: bold;">JULHO</div> <div style="background-color: white; color: black; padding: 2px 5px; font-weight: bold; border: 1px solid black;">13</div>	<p><b>Patologia reprodutiva do cão e gato.</b></p> <p><b>Maria dos Anjos Pires</b> PhD, MSc, VMD</p>	<div style="background-color: orange; color: white; padding: 5px 10px; border-radius: 10px; font-weight: bold;">REGISTRATION</div>
 <div style="background-color: orange; color: white; padding: 2px 5px; font-weight: bold;">SET</div> <div style="background-color: white; color: black; padding: 2px 5px; font-weight: bold; border: 1px solid black;">14</div>	<p><b>Aborto por doenças infecciosas em animais de produção.</b></p> <p><b>Carolina Argenta Pescador</b> DVM, MSc, PhD</p>	<div style="background-color: orange; color: white; padding: 5px 10px; border-radius: 10px; font-weight: bold;">REGISTRATION</div>
 <div style="background-color: orange; color: white; padding: 2px 5px; font-weight: bold;">NOV</div> <div style="background-color: white; color: black; padding: 2px 5px; font-weight: bold; border: 1px solid black;">9</div>	<p><b>Patologia de doenças micóticas.</b></p> <p><b>Antônio Flávio Dantas</b> DVM, PhD</p>	<div style="background-color: orange; color: white; padding: 5px 10px; border-radius: 10px; font-weight: bold;">REGISTRATION</div>

# EASTERN EUROPEAN VET PATH MEETING

**Faculty of Veterinary Medicine, Ss. Cyril  
and Methodius University in Skopje and  
Davis-Thompson Foundation**

## **3rd Annual Davis-Thompson Foundation Eastern European Veterinary Pathology Meeting**

**25-27 MAY 2022**

**Hotel Sileks, Ohrid, R. North Macedonia**



**Registration fee 100 EUR  
Discounted hotel rates when booked  
before 31st March 2022**



**Francisco  
Uzal**  
**DVM, MSc, PhD,  
DACVP**

Bovine pathology  
Alimentary diseases  
of domestic animals



**Monika  
Welle**  
**DVM, DECVP,  
Prof. Dr. med. vet.**

Dermatopathology



**Trpe  
Ristoski**  
**DVM, PhD**

Infectious diseases  
of dogs and cats

[Click here to register](#)



# US DESCRIPTIVE PATH COURSE



Davis-Thompson  
Foundation



HYBRID  
FORMAT!

## DESCRIPTIVE VETERINARY PATHOLOGY June 6-10, 2022 **AUBURN UNIVERSITY**



**Dr. Linden Craig**



**Dr. Jey Koehler**



**Dr. Patty Pesavento**

*how to describe and interpret:*  
**gross, micro, EM, ISH/IHC/PCR**

**FIVE** mock tests, including interpretation  
MCQ + digital slides  
active learning exercises, Q&A and more!

In-person live \$550  
Virtual live \$450  
Rebroadcast \$125  
\*add \$100 for non-members


[Click here to register](#)





# NECROPSY COURSE


**ECFVG CPE PREP**

# NECROPSY COURSE

 Davis-Thompson Foundation

 **Breathitt Veterinary Center**


 **Sat & Sun, June 10-11, 2022**

 **8.00 AM - 4.00 PM**




**Learn techniques of necropsy**


Prepare for the necropsy portion of the ECFVG's CPE exam via hands on practice and MOC exam with Veterinary Pathologists.



**Rafaela De Negri**  
DVM, MSc



**Nathan Helgert**  
VMD, DACVP



**In person  
&  
virtual**

[Click here to register](#)

# LITERATURE & INTERPRETATION COURSE

**SAVE THE DATE!**



Davis-Thompson  
Foundation

## CURRENT LITERATURE AND IMAGE INTERPRETATION COURSE

FORMERLY THE "GROSS COURSE"

Details coming soon!



Hybrid format

location:



**SAVE THE DATE!**

JULY 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					01	02
03	04	05	06	07	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

[Click here to register](#)

# ANNUAL SYMPOSIUM OF THE EUROPEAN DIVISION

## 2022 ANNUAL SYMPOSIUM DAVIS-THOMPSON FOUNDATION EUROPEAN DIVISION

### Non-human Primate Pathology Workshop



ANNE LEWIS  
DVM, PHD, DACVP



AMANDA BECK  
DVM

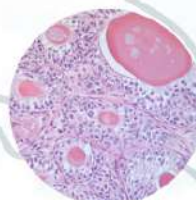
5&6  
Sept  
2022



in person



Athens, Greece  
Sofitel, Athens Intl Airport



[Click here to register](#)



# AAVLD DISEASES OF THE NERVOUS SYSTEM



Davis-Thompson  
Foundation



22ND DAVIS-THOMPSON  
FOUNDATION DIAGNOSTIC  
PATHOLOGY SYMPOSIUM

In conjunction with the 65th  
AAVLD annual meeting

## Diseases of the nervous system

### SAVE THE DATE!

7 Oct 2022

8 AM  
-  
5 PM  
CDT



Hybrid format



Hyatt Regency Minneapolis

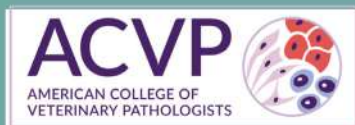
✓ Dr. Raquel Rech  
✓ Dr. Andrew Miller  
✓ Dr. Kevin Woolard



# ACVP PRE-MEETING WORKSHOP



Davis-Thompson  
Foundation



AMERICAN COLLEGE OF  
VETERINARY PATHOLOGISTS

November 12, 2022

8:00am - 5:00pm EDT

The Westin Boston Seaport District

(previously known as Westin Boston Waterfront Hotel)

Boston, MA

## ACVP Pre-Meeting Workshop Getting Into the Hard Stuff: Tumors of Bone, Cartilage, and Dental Tissue



Keren Dittmer, BVSc, PhD, DACVP

Rob Foster, BVSc, PhD, DACVP



Cindy Bell, DVM, DACVP

Registration coming soon  
on the ACVP website

Material from volume 4 of  
Surgical Pathology of  
Tumors of Domestic Animals!



# DT FOUNDATION SEMINARS IN LATIN AMERICA



## DAVIS-THOMPSON FOUNDATION SEMINARS IN LATIN AMERICA 2022

Country	Seminar	Main topics	Dates	Speakers	Organizer	Format
Argentina	XVI Argentinean Seminar of the DTF	Avian pathology neuropath, bovine diseases	24-25 August	Gabriel Senties Cue, Carmen Jerry, Marti Pumarola Batlle, Mario Bedolla	Rocio Marini; Ana Canal	Hybrid
Bolivia	II Bolivian Seminar of the DTF	Bovine pathology; porcine respiratory pathology	5 May	Mario Bedolla, Alfonso Lopez	Rodolfo Nallar	Virtual
Brazil	TBC	TBC	TBC	TBC	TBC	TBC
Chile	VII Chilean Meeting of Histopathology	Pathology of fish and mollusks	20-21 Oct	Carlos Sandoval, Paola Barato, Karin Lohrman	Carlos Flores	Hybrid
Colombia	TBC	TBC	TBC	TBC	TBC	TBC
Costa Rica	I Costa Rican Seminar of the DTF	GI Pathology, respiratory pathology, abortion	25-27 Feb	Leonardo Minatel, Francisco Uzal	Roberto Olivares	Hybrid
Guatemala	III Guatemalan Seminar of the DTF	Cardiovascular pathology	6 Apr	Enrique Aburto, Gisela Martinez	Deborah Rodriguez	Virtual
Mexico	IV Mexican Seminar of the DTF	Wildlife pathology	September TBC	Mariela Diaz, Ignacio Rangel, Osvaldo Lopez, Esperanza Yanez, Alfredo Perez, Emily Mitchell, Sarah Clift, Johan Steyl	Ubicelio Martin Orozco	Hybrid
Uruguay	Uruguayan Seminar of the DTF	Respiratory pathology, neuropath	22-23 Aug	Claudio Barros, Francisco Carvallo	Jose Manuel Verdes	Hybrid



# BSTP CORNER



## BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

### Notice of Future Meetings - March 2022

Virtual CES 6: Male Reproductive System  
Tuesday 5th – Thursday 14th July 2022



*CES 6 will be held over two weeks – on the afternoons of Tuesday 5th, Wednesday 6th, Thursday 7th, Tuesday 12th, Wednesday 13th and Thursday 14th July 2022, from 13.00 – 16.30/17.00 (GMT+1, London/UCT+1) each day.*

**Continuing Professional Development:**

Approved by the Royal Society of Biology for the purposes of CPD, this event may be counted as approximately 53 credits. Approximately 17.5 hours of educational activity will be recorded on Attendance Certificates.

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

We are pleased to announce that Dianne Creasy will be the keynote speaker.

**<< REGISTRATION IS NOW OPEN >>**

If you would like further information, have any queries, or would like to reserve a place, please contact the BSTP Secretariat – [bstpsecretariat@gmail.com](mailto:bstpsecretariat@gmail.com)

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

**37th Annual Scientific Meeting of the BSTP & AGM – Digital Pathology and Mouse Pathology Workshop**  
Thursday 10th & Friday 11th November 2022  
Harrogate, North Yorkshire, UK

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

We are delighted to invite you to attend ..... **IN PERSON** the Digital Pathology and Mouse Pathology Workshop (in collaboration with Pathology Society of Great Britain and Ireland) which will be held on 10th and 11th November 2022 in Harrogate, UK. This conference will give you the opportunity to join a talented digital pathology community in person following a long absence of face-to-face gatherings. You will have direct access to international key opinion leaders, cutting-edge (or pre-event) workshops & discussions, Pharma/Biotech case studies, keynote lectures, and an innovating poster session. Digital pathology areas include nonclinical solutions for drug development, clinical learning-based diagnostic tools, digital image analysis solutions, quality management with regulatory compliance, digital peer review, digital primary slide reading, deep learning-based artificial intelligence concepts and much more.

The Mouse Pathology Workshop will aim to have a mix of talks to enable those in the early stages of their career to learn about pathology basics.

You will be able to create new collaborations and build on existing partnerships across industry & academia.

For up-to-date information, keep checking:

<http://www.bstp.org.uk/events/37th-annual-scientific-meeting-of-the-bstp/>

# BSTP CORNER



## Future BSTP events are due to take place as follows:

<b>5th – 14th July 2022</b>	<b>Virtual CES 6 - Male Reproductive System</b>
<b>10th &amp; 11th November 2022</b>	<b>37th Annual Scientific Meeting &amp; AGM (IN PERSON) Digital Pathology and Mouse Pathology Workshop</b>
<b>14th – 23rd March 2023</b>	<b>Virtual CES 7 - Infectious diseases of laboratory animals</b>
<b>4th – 13th July 2023</b>	<b>Virtual CES 8 - Nervous System</b>
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. Details of future meetings are correct at the time this booklet is generated, the BSTP will not be held responsible for any changes to dates, topics and venues of these meetings.

## Webinars

**BSTP webinars - in collaboration with the Society of Toxicological Pathology (STP)**  
Organisation still in progress

**BSTP webinars - in collaboration with the ESTP/SFTP/BSTP and ECV/ESVP**

6th Joint Webinar of the ESTP/SFTP/BSTP and ECV/ESVP, Monday April 25th, 2022  
"Hot topics in Veterinary and Toxicologic Pathology".

For information on any events organised by the BSTP, please contact the BSTP Secretariat -  
[bstpsecretariat@gmail.com](mailto:bstpsecretariat@gmail.com)

or visit the website – <http://www.bstp.org.uk/bstp-events/>

or <http://www.bstp.org.uk/bstp-webinars/>



# IDEXX CASECONNEX CORNER

**Signalment:** 12-year-old, female spayed, Miniature Pinscher

**Source/ History:** Proptosis OD – concerned for retrobulbar mass due to IOP remaining normal despite proptosis

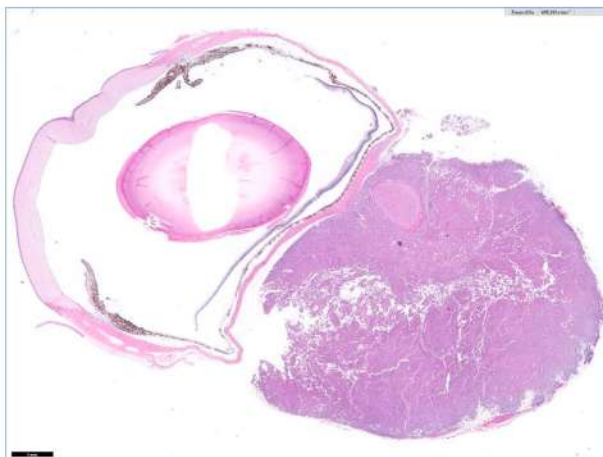


Figure 1. (0.5X magnification, H&E stain) Retrobulbar mass. Surrounding the optic nerve, is an unencapsulated, moderately to densely cellular neoplasm.

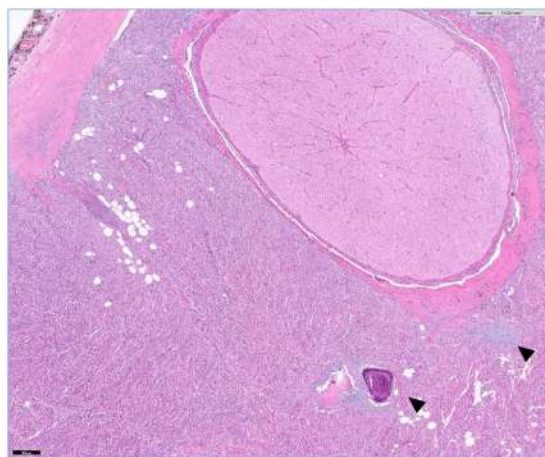


Figure 2. (5X magnification, H&E stain) The mass is composed of streams, bundles, sheets, and occasional whorls supported by a fine fibrovascular stroma. Multifocally, there are a few foci of osseous and chondroid metaplasia (black arrowheads).

## Microscopic Description:

Surrounding the optic nerve and seeming to arise from the optic nerve meninges is a moderately to densely cellular neoplasm composed of polygonal to spindloid cells arranged in streams, bundles, sheets, and occasional whorls supported by a fine fibrovascular stroma. The cells have moderate amounts of pale eosinophilic cytoplasm and indistinct cellular borders. Nuclei are oval or round, with finely stippled chromatin, and 1 to 2, small, nucleoli. There is mild-moderate anisocytosis and anisokaryosis. Multifocally, there are a few foci of osseous and chondroid metaplasia. Within the lens, there is mild degeneration of lens fibers and Morgagnian globules. There is mild hyperplasia of the corneal epithelium.

## Microscopic Interpretation:

Eye, OD: 1) Orbital meningioma

Mitotic count: 4 in ten high power fields (total area of 2.37 mm<sup>2</sup>)

Vascular/lymphatic invasion: Not observed

2) Mild cataractous changes and mild corneal epithelial hyperplasia

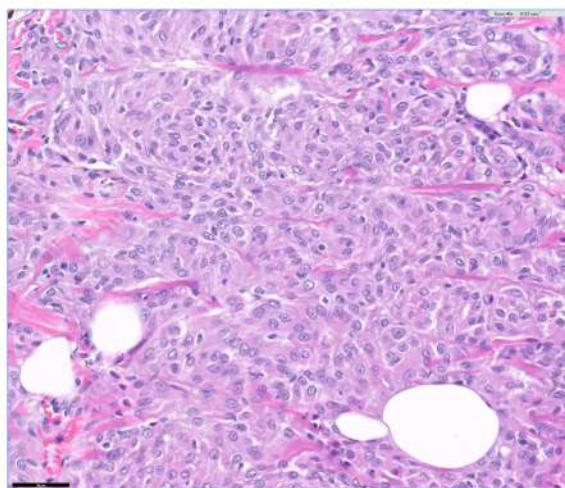


Figure 3. (40X magnification, H&E stain) Neoplastic cells are polygonal to spindloid with moderate amounts of pale eosinophilic cytoplasm and indistinct cellular borders. Nuclei are oval or round, with finely stippled chromatin, and 1 to 2, small, nucleoli.

## Comments:

The anatomic location and histologic features of the retrobulbar mass are consistent with a canine orbital meningioma. Meningiomas in the retrobulbar location are considered rare and may be primary arising from the optic nerve meninges or extending from an intracranial neoplasm along the optic nerve.

Meningiomas of the optic nerve tend to be slow growing and locally invasive, but unlikely/rare to metastasize. In one review evaluating orbital meningiomas in dogs, local recurrence was reported in 6 out of 17 cases with follow up information.

References: Dubielzig RR. Tumours of the eye. In Meuten DJ, ed. Tumors In Domestic Animals. 5th ed. Ames, IA: Blackwell Publishing; 2017: 892-922; Mauldin EA, Deehr AJ, Hertzke D, Dubielzig RR. Canine orbital meningiomas: a review of 22 cases. Vet Ophthalmol. 2000; 3: 11-16.

Case by  
Joseph Malatos, DVM, DACVP

IDEXX

CaseConnexx  
www.caseconnexx.com



# MISCELLANEOUS ANNOUNCEMENTS



## 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

### Membership Fees:

\$50 - Professionals in US, Canada, and Europe

\$30 - Professionals in Latin America

\$25 - Students in US, Canada, and Europe

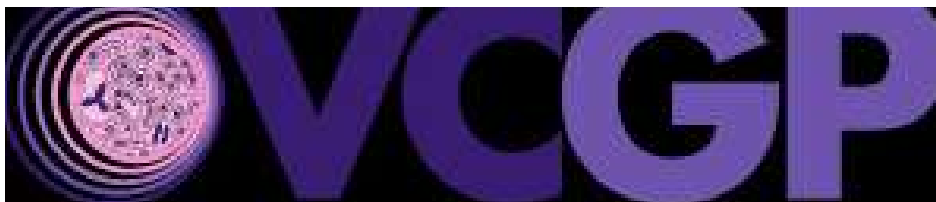
\$15 - Students in Latine America

**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](http://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 veterinary pathologist colleagues.

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



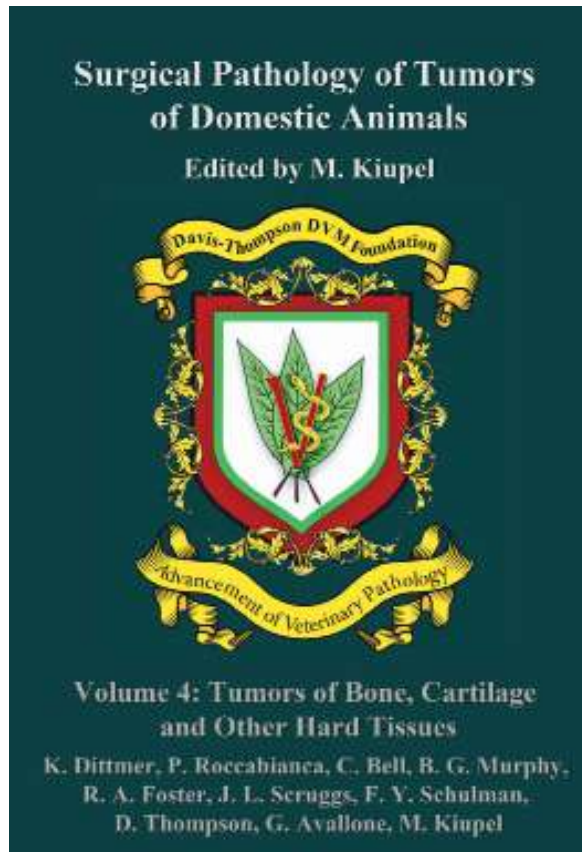
Grab a cozy Davis-Thompson Foundation sweater to get you through this winter and to show off the mighty pathologist that you are!

Get it [HERE](#)



...and T-shirts are still available!

# MISCELLANEOUS ANNOUNCEMENTS



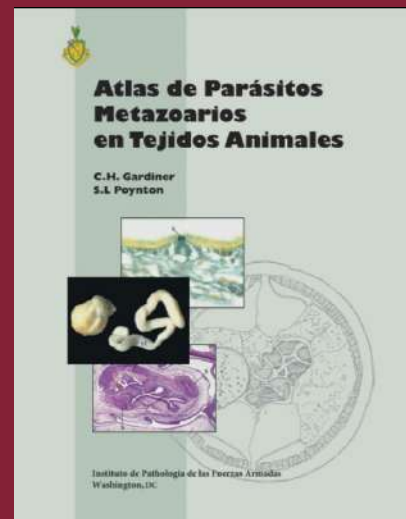
**CLICK HERE** to order your copy today!

## 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](mailto: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](mailto:jobritt@sbcglobal.net); 501-912-1449.



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



**Davis-Thompson  
Foundation**

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APRIL 2022