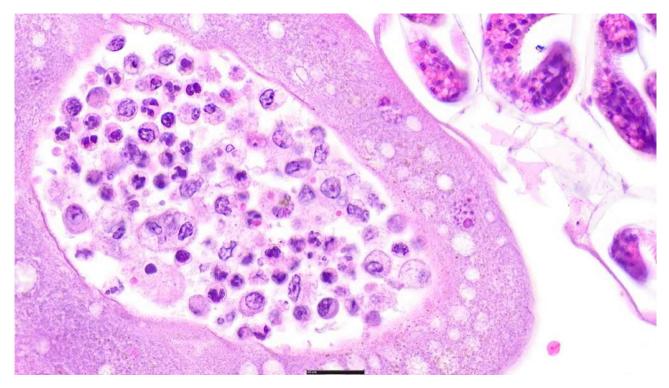


C.L. DAVIS/S.W. THOMPSON DVM FOUNDATION

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

THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

April VOL. 55



Which of the following is true regarding canine distemper virus (CDV) inclusions?

- A. CDV inclusions are found only in the liver of infected dogs.
- B. Intranuclear and intracytoplasmic inclusions can be observed in epithelial and nervous tissues.
- C. CDV inclusions are exclusive to the nervous system and do not appear in other tissues.
- D. Inclusion bodies are only present during the late stages of infection.

INSIDE THIS ISSUE

MONTHLY COVER IMAGE WINNER:

M. Kevin Keel, DVM, PhD, DACVP

UC Davis, School of Veterinary Medicine, Dept of Pathology, Microbiology, & Immunology
Answer: B

Signalment: Gray Fox

Cross-section of the gut of an adult nematode in the lung of a gray fox. Ingested cells contain eosinophilic inclusions.

Etiology: Crenosoma vulpis and canine distemper virus

Submit your image today (images@davisthompsonfoundation.org)!

-Dr. Katherine D. Watson - Cover Image Editor -Dr. M. Donald McGavin - Cover Image Composition Analyst

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MESSAGE FROM THE CEO

Dear colleagues

Welcome to the April issue of the Davis-Thompson Foundation Newsletter and thank you, as always, to our brilliant managing editors, Javier Asin and Jeann Leal.

Outstanding training opportunities at low or no cost! Have a look at the following pages and/or on the Foundation's <u>website</u> to see what is available for you.

And speaking of "outstanding training opportunities", see the wonderful article that Rafaela De Negri, a member of the Foundation's Board of Directors, wrote summarizing the activities of the Foundation in 2024, including 56 educational events with participants from 74 countries. Our heartfelt thanks to Rafa and to all our volunteers that make this possible day in and day out!

Finally, if you are a member of the Latin Comparative Pathology Group (LCPG) or you want to become one, remember that the deadline for membership dues is March 31st. Although this date will probably be past by the time you read this, keep in mind that you can register any time of the year. The very modest LCPG membership dues help support critical training activities in Latin America.

Looking forward to seeing you in one of our training activities.

Warm regards

Francisco (Paco) Uzal Chief Executive Officer Davis-Thompson Foundation



FOUNDATION'S RESOURCES

Advancing Global Pathology Education: The Davis-Thompson Foundation's Ongoing Commitment to Expanding Opportunities in Veterinary and Comparative Pathology

Rafaela De Negri

Last year, the Davis-Thompson Foundation (DTF) hosted 56 educational events, both virtual and in person, uniting live participants from 74 countries. Our recorded lectures reached an even broader audience, with viewers spanning 135 countries. These events varied in format, from one-hour sessions to week-long lecture series, all dedicated to advancing education in veterinary pathology.

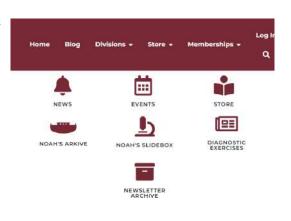
In 2025, DTF remains unwavering in its mission to disseminate education and expand opportunities for veterinary pathologists worldwide. By leveraging innovative digital resources, global events, and collaborative initiatives, we continue to offer accessible learning opportunities, often at no or low cost, ensuring high-quality pathology education is available to all, regardless of geographical or financial barriers.

This year's calendar has already started strong, with 38 events scheduled. Of these, ten—including two week-long courses, the General Pathology Review Course and Curso de Patología General en Español—took place in the first three months alone.

To explore our upcoming events and secure your registration, simply click the "Events" icon on our website. Be on the lookout for our highly anticipated Full Day Virtual Seminar series, which will feature carefully designed lectures by world-renowned experts on key topics in veterinary pathology, providing our members with in-depth, high-quality educational experiences.

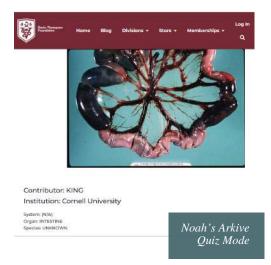
Missed an event? Don't worry! Our free webinars are available for six months on our YouTube channel, alongside a treasure trove of additional content—648 videos to be exact! These videos are organized into playlists, covering everything from species-specific pathologies and system-focused lectures to challenging gross pathology cases.

You won't be alone in exploring these valuable resources! Since 2018, our YouTube channel has amassed over 2.5 million views and an impressive 118,279.2 watch hours. Dive into our playlists and enhance your learning experience. Visit us at www.youtube.com/@DavisThompsonFoundation to explore more.





FOUNDATION'S RESOURCES



In addition to our live events and YouTube content, our website serves as a critical hub for educational resources, including:

- <u>Noah's Arkive</u>: An open, repository of veterinary pathology slides contributed by individuals and institutions worldwide. This expansive collection includes a broad range of species, systems, organs, and pathological conditions. Featuring a Quiz Mode, it provides interactive learning and self-assessment tools to enhance the educational experience. A staggering 65,202 images are currently available!
- Noah's Slidebox: Launched in 2023, this growing resource boasts over 3,530 digitized whole-slide images, providing an unparalleled collection of pathology slides, including rare and exotic cases. This ensures pathologists around the world have access to diverse, high-quality educational materials.
- <u>LCPG Diagnostic Exercises</u>: In collaboration with the Latin Comparative Pathology Group (LCPG), DTF publishes 18 diagnostic exercises annually. These case studies serve as an essential resource for honing diagnostic skills and advancing expertise in veterinary pathology. Access all our 257 exercises through our newsletter or our website.

• <u>Publications</u>: Our comprehensive collection of publications is available for free or at a low cost. Our free <u>e-books</u> include Opening Pandora's Box, Atlas de Parásitos Metazoarios, Equine Abortion Atlas, and Atlas dos Parasitos Metazoários em Tecidos Animais. At low cost, we offer the highly sought-after Surgical Pathology of Tumors in Domestic Animals—available in four volumes with additional volumes coming soon. Other key titles include the updated The Necropsy Book, Fifth Edition (Pocket-Sized), An Atlas of Metazoan Parasites in Tissue Sections, An Atlas of Protozoan Parasites in Animal Tissues and Intoxicaciones por plantas, micotoxinas y otras toxinas en ruminates y equidos de Sudamerica. To explore our full collection, simply visit the "<u>STORE</u>" icon on our website.

At the Davis-Thompson Foundation, we believe that accessible education is foundational to advancing veterinary and comparative pathology. Your continued partnership helps us expand our impact, ensuring these critical resources remain accessible to all. Whether through your time, expertise, or financial support, every contribution plays a pivotal role in enabling us to provide high-quality, low-cost educational opportunities to pathologists worldwide.

Together, we can continue to break down barriers and drive meaningful progress in our field. We invite you to explore our resources, share them with your colleagues, and consider how you can further support our mission. Your partnership is essential in advancing knowledge and fostering professional growth on a global scale. Thank you for being an integral part of this community. We look forward to continuing this journey with you.



JVDI IN FOCUS



The Official Journal of the American Association of Veterinary Laboratory Diagnosticians

Our April focus is a review article appearing in the May issue: "Bovine herpesviral meningoencephalitis: large case study and literature review" by Bethânia S. Santos, Ricardo A. A. Lemos, Raquel R. Rech, Claudio S. L. Barros, Daniel R. Rissi.

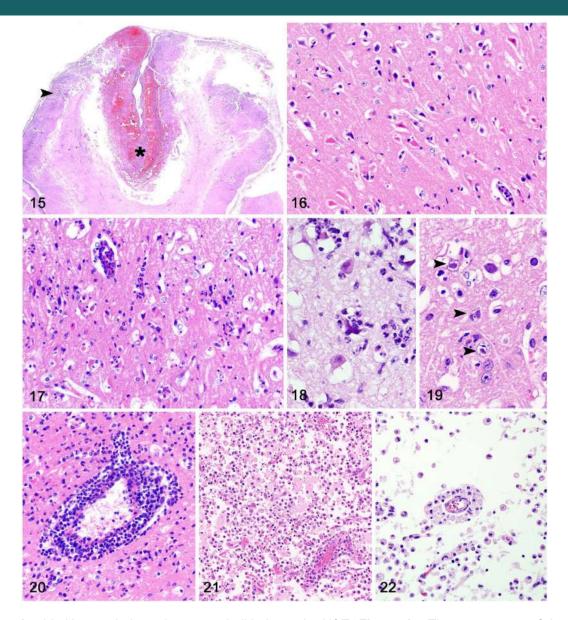
J Vet Diagn Invest 2025;37(2). https://journals.sagepub.com/doi/abs/10.1177/10406387251319804

Bovine herpesviral meningoencephalitis (BHM) is an infectious disease of cattle caused by bovine alphaherpesvirus 1 (BoAHV1; Orthoherpesviridae, Varicellovirus bovinealpha1) or 5 (BoAHV5; Orthoherpesviridae, Varicellovirus bovinealpha5). Cases are frequent in South America, but the disease is sporadic in other countries. Infection typically leads to fatal necrotizing meningoencephalitis that most often affects calves <1-y-old and yearlings under stressful situations, including weaning, large concentrations of animals, transport, and introduction of cattle from other locations into a herd. Clinical disease lasts from 1-10d and often leads to typical gross and histologic lesions that are more prominent in the frontal lobes of the brain. This particular neuroanatomic distribution of lesions results from retrograde viral infection from the nasal mucosa along the olfactory nerves and bulbs with subsequent spread to the rostral cerebrum. Because of its particular geographic distribution, many aspects of BHM are still poorly documented in the English language veterinary literature, and thus a comprehensive review of the disease is warranted. Here we review the main aspects of BHM, including its historical timeline, etiology, pathogenesis, epidemiology, clinical and pathologic findings, diagnosis, and control and prophylaxis.



The Journal of Veterinary Diagnostic Investigation is the official journal of the American Association of Veterinary Laboratory Diagnosticians. The mission of the Journal is to educate by informing readers of progress in veterinary laboratory medicine and related fields of endeavor. The key objectives of the JVDI are to promote the science of veterinary laboratory medicine and the betterment of animal and public health. JVDI fully supports diversity, equity, and inclusion in our publishing activities.

JVDI IN FOCUS



Figures 15–22. Herpesviral meningoencephalitis in cattle. H&E. Figure 15. The gray matter of the frontal lobe is effaced by extensive hemorrhage and loss of the neuroparenchyma (asterisk), with cleavage of the cortex from the underlying white matter and areas of inflammation (arrowhead). Figure 16. Necrotic neurons in the frontal cortex have intensely eosinophilic and angular cytoplasm (red neurons) with pyknotic or absent nuclei. Figure 17. Necrotic neurons in the frontal cortex are surrounded by clusters of neutrophils. Figure 18. A necrotic cortical neuron in the frontal lobe is surrounded by neutrophils and microglia (neuronophagia). Figure 19. Astrocytes in the frontal lobe have eosinophilic viral INIBs (arrowheads) that displace the chromatin to the periphery of the nucleus. Figure 20. Perivascular lymphoplasmacytic inflammation in the frontal lobe. The neuroparenchyma is hypercellular (astrocytosis and microgliosis). Figure 21. The neuroparenchyma is almost completely replaced by sheets of foamy macrophages. Figure 22. A residual lesion in the frontal lobe consisting of scattered foamy macrophages and blood vessels (Image from Pesq Vet Bras 26:123–132, 2006; with permission).



DIAGNOSTIC EXERCISE



Case #: 256; Month: March; Year: 2025

Contributors: João Paulo S. Cavasani¹, Wuglenya D.M. Silva¹, Lucas A.D. Pavelegini¹, Edson M. Colodel¹, Fernando H. Furlan^{1*}

¹Veterinary Pathology Laboratory, Veterinary Hospital, Federal University of Mato Grosso, Brazil.

Corresponding author: fernando.furlan@ufmt.br

History: An 18-year-old English thoroughbred gelding was evaluated because of incoordination, circling, and head pressing. The horse died 5 days after the clinical signs started.

Necropsy findings: Small, pinpoint red areas in the cerebellopontine region and in the medulla oblongata (Fig. 1). In the myocardium there were firm, yellow nodules (1-3 cm diameter) (Fig. 2). Samples of the heart (Figs. 3 and 4) and medulla oblongata (Figs. 5 and 6) were collected for histology.



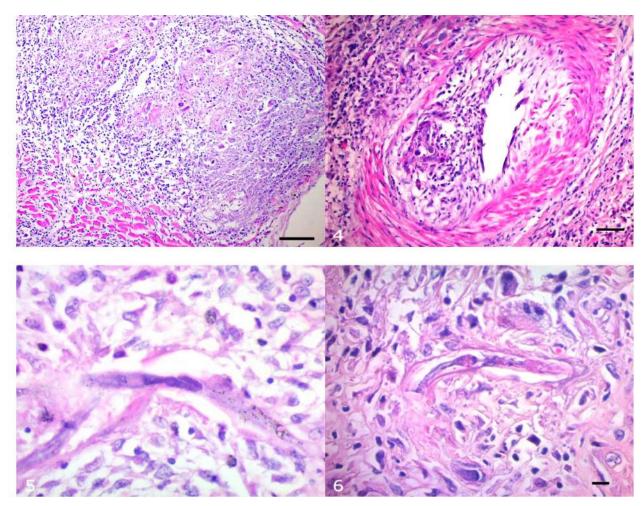
Figure 1. Cerebellum and medulla oblongata, horse. Multifocal small red areas in the white matter. **Figure 2.** Heart, horse. Irregular yellowish area in the myocardium.

^{*}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 (https://davisthompsonfoundation.org/diagnostic-exercise/).



DIAGNOSTIC EXERCISE





Figures 3 and 4. Heart, horse. Figures 5 and 6. Cerebellum, horse.

Follow-up questions:

- Morphologic diagnosis
- Etiology
- Name the disease

Click here for answers

Associate Editor for this Diagnostic Exercise: Daniel Rissi

Editor-in-chief: Claudio Barros







Training on Clinical Pathology: Techniques, Interpretation, and Correlation with Gross Pathology 25-27 February 2025

by Dr Dalen Agnew

The Global Health Pathology Network (GHPN), in conjunction with and supported by the Davis-Thompson Foundation (DTF), conducted a three-day workshop held 25-27 February 2025 on "Clinical Pathology: Techniques, Interpretation, and Correlation with Gross Pathology" at the Agricultural and Forestry University (AFU) in Rampur, Chitwan, Nepal. The lead GHPN trainers for this didactic, interactive, and case-based scenario workshop (with laboratory exercises) were Drs. Dorothee Bienzle (University of Guelph) and Dalen Agnew (Michigan State University). Our on-site facilitator was Dr. Bikash Puri, Assistant Professor of Pathology (AFU). Drs. Carmen Smith and Martin Gilbert (Cornell University, K. Lisa Yang Center for Wildlife Health) were also on hand to observe and provide support. Approximately 30 registered academic, government, and private practice veterinarians attended the workshop with a primary focus on the use of clinical pathology in the local context of Nepalese animal health. On 1-2 March, Drs. Agnew and Smith provided a 2-day workshop on Necropsy and Gross Pathology to approximately 25 veterinarians employed in the public health sector in Kathmandu at the Central Veterinary Diagnostic Laboratory. This first-of-its-kind training in Nepal was very well received as is evident from the enthusiasm of the participants, the comments during and after the event, the formal evaluations, and the after-action discussions. FAO kindly provided lunches and tea breaks each day, as well as notebooks and housing for the resource faculty.









Strengthening Pandemic Preparedness for Early Detection in Nepal (SPEED) (GCP/NEP/085/PAF)

TRAINING ON CLINICAL PATHOLOGY: TECHNIQUES, INTERPRETATION AND CORRELATION WITH GROSS PATHOLOGY

Venue: Agriculture and Forestry University, Chitwan

Date: 25-27 February 2025

Technical Support















Participants learn to use refractometers and make blood smears for later interpretation

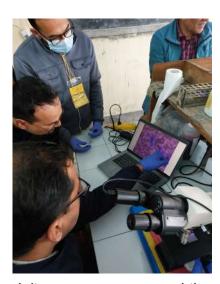




While not in common use in Nepal, a hematology analyzer was demonstrated for the workshop. Participants worked in small groups to work through challenging disease scenarios using clinical pathology data.







Participants got to showcase their knowledge of pathogenesis and disease management while learning new skills in clinical pathology, including cytology and digital pathology.



The 30+ participants and local hosts gave the workshop high marks for the engaging style of learning and the hands-on opportunities in the lab.





The clinical pathology workshop was followed up with another 2-day workshop in the capital city of Kathmandu, at the Central Veterinary Laboratory. Dr. Carmen Smith provided didactic training on lesion recognition, gross reports, and morphological diagnoses.





After receiving training on appropriate postmortem techniques, participants conducted their own postmortem examinations on pigs, a goat, and chickens.



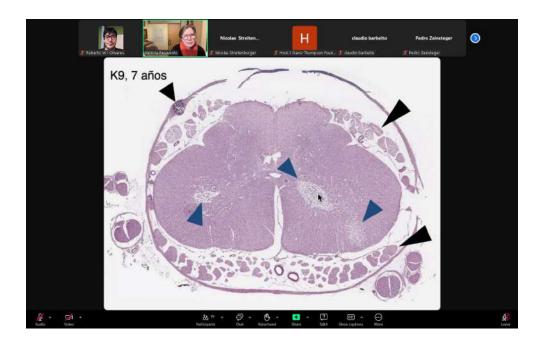
Participants, hosts, and trainers appreciated the opportunity to network and focus on further developing their pathology skills.

GEN PATH COURSE IN SPANISH REVIEW

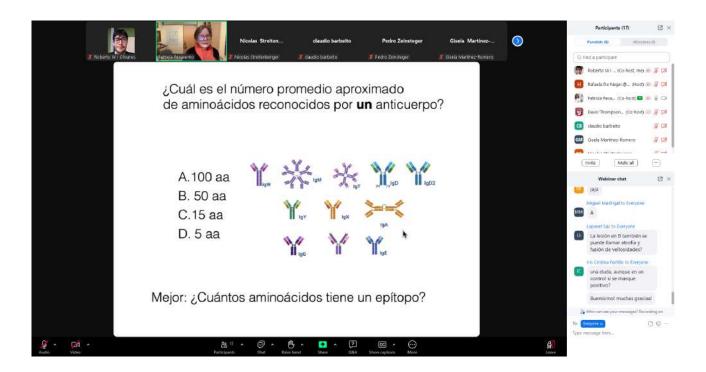
General pathology course in Spanish 10-14 March 2025

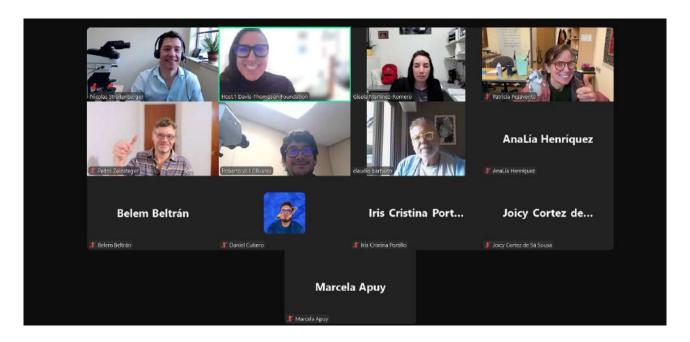
by Dr Roberto Olivares

The General Pathology Course was held for the first time in Spanish. The course was coordinated by Dr. Roberto Olivares and distinguished speakers, including Drs. Claudio Barbeito, Pedro Zeinsteger, Nicolas Streitenberger, Gisela Martinez-Romero, and Patty Pesavento. Over five days, the instructors reviewed key mechanisms of general pathology, including cell death, inflammation, immune responses, hemodynamic disorders, cancer, intoxications, and diagnostic tools. The course also included the discussion and analysis of five problem-based learning scenarios, in which attendees identified and applied the molecular mechanisms of disease covered throughout the week. The course was a success, with 60 students participating from various countries, including Argentina, Mexico, Costa Rica, and El Salvador.

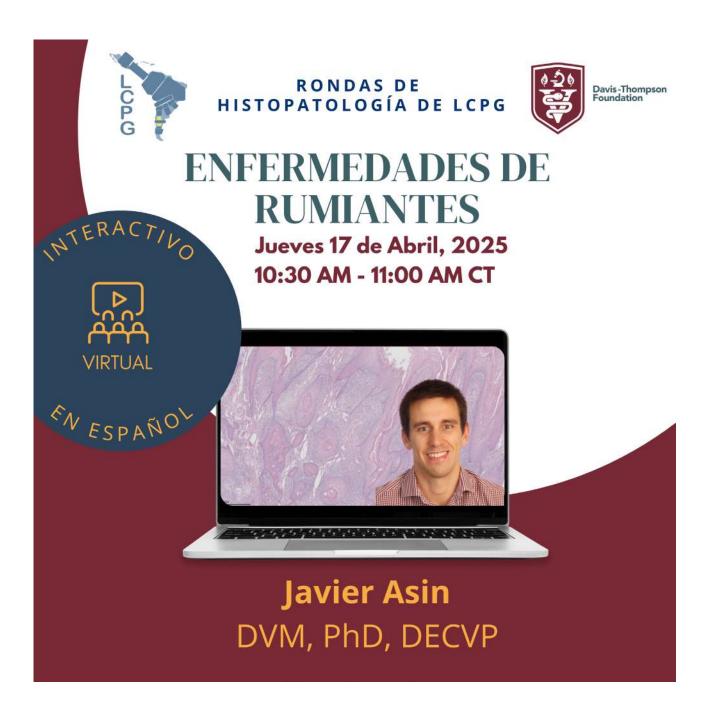


GEN PATH COURSE IN SPANISH REVIEW





RONDAS HISTOPATOLOGIA LCPG



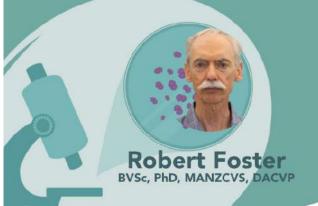
NORTHEAST CONFERENCE



NORTHEAST VETERINARY PATHOLOGY CONFERENCE



APRIL 25–26, 2025 REPRODUCTIVE PATHOLOGY



\$50 (non-presenting) \$ In-person

Course director

Anna-Maria Travis

DVM, MPA, DACVP

Smithsonian National Zoological Park & Conservation Biology Institute, Washington, D.C.

WEST COAST CONFERENCE





The 42nd Annual WEST COAST PATHOLOGY CONFERENCE

REAT ONADS AND VUBULAR VALES
OF REPRODUCTIVE PATHOLOGY!



NECROPSY COURSE



SEMINAR SERIES IN SPANISH



CLASS & POLA

2025 **CURRENT LAB ANIMAL** SCIENCE SEMINAR (CLASS) & PATHOLOGY OF LAB **ANIMALS (POLA)**

POLA 17-18 MAY 19-23

Bencivenga

Michael

Heather

Weaver

Kathryn

Bender

Aimee

Hunter



Daniel Bland

Ingrid

Bergin

Heather

Tillman

Teresa

Southard



Laura Cregar

Davis-Thompson Foundation



Joe Anderson



Chip Lang



Sarah Sulkosky



William Baskerville



James Corrigan

Laura

Anderson



Amanda Beck



Angela Brice



Nicole Lukovsky-Akhsanov



CLASS \$100 POLA \$350-450



RACE -PENDING



VIRTUAL

EASTERN EUROPEAN PATHOLOGY







6th Annual Davis-Thompson Foundation Eastern European Veterinary Pathology Meeting



MAY 21-23, 2025



Cluj-Napoca, Romania



Brian Murphy DVM, PhD, DACVP



Melanie Dobromylskyj BSc, BSVc, PhD, FRCPath, FRCVS



Flaviu Alexandru Tăbăran DVM, PhD, DACVP

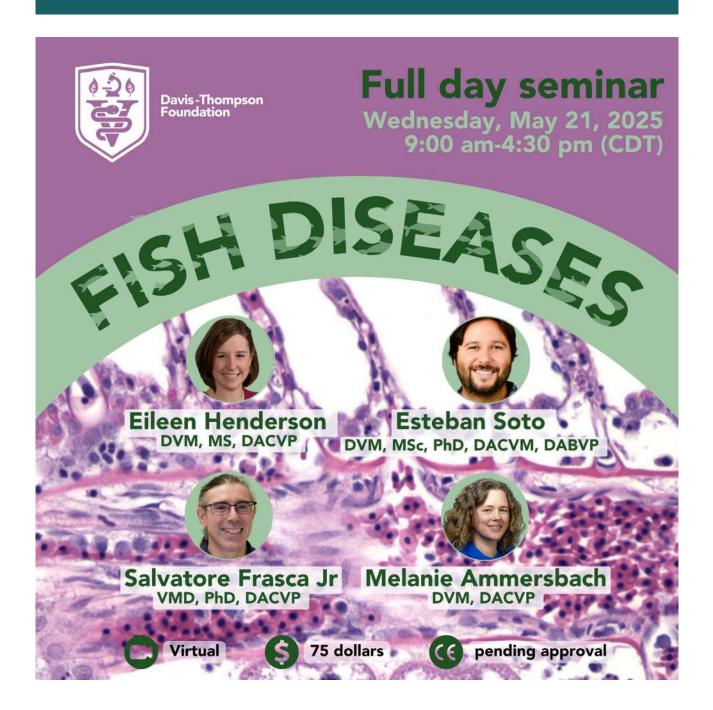


In-person



€220 until April 25 €250 until May 11

FISH DISEASES DAY SEMINAR



CLIIC US





Linden Craig DVM, PhD, DACVP



Lauren Guarneri

DVM, DACVP

Michelle Dennis



DACVP

Sarah Linn-Peirano

DVM, PhD, DACVP



Kim Newkirk



Denae LoBato DVM, PhD, DACVP

- 650+ board-style multiple choice questions
- Thousands of images (gross & microscopic)
- 30+ hours engaging poll-mode lectures

\$575-675 🔊

In-person 8

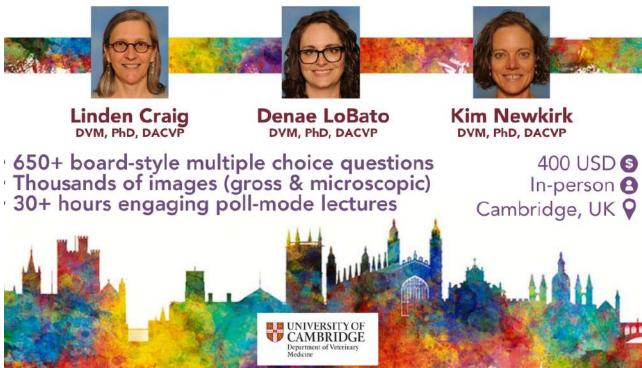
Knoxville, TN ♀

28 RACE, pending 🗞

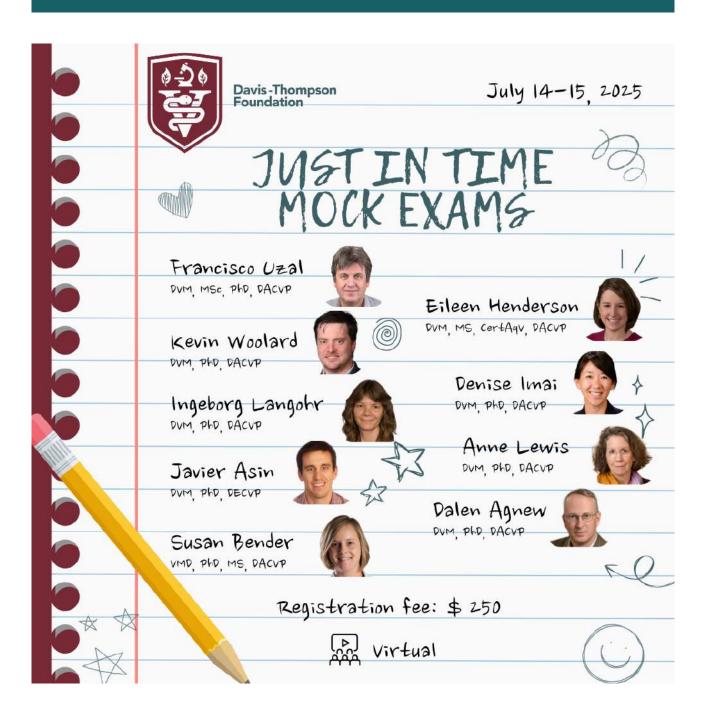


CLIIC UK

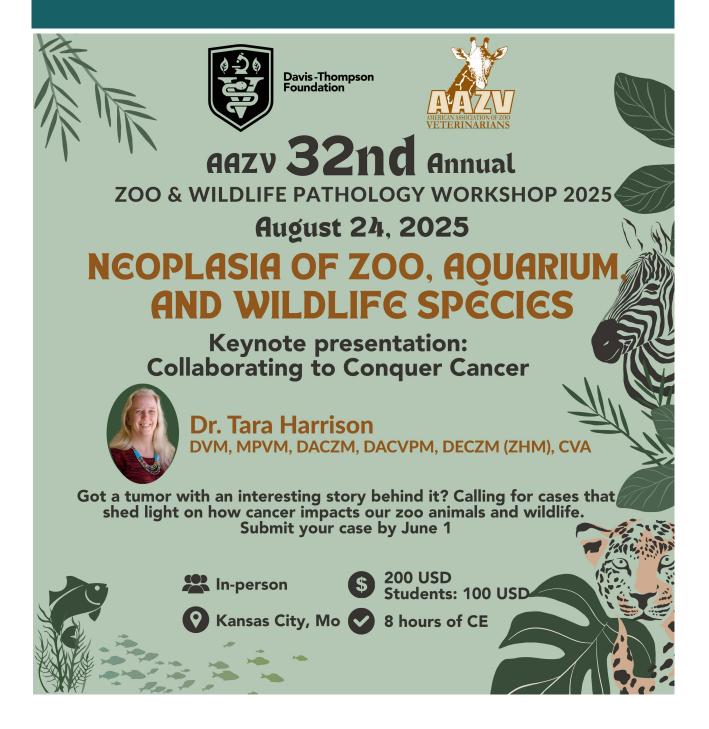




JUST IN TIME MOCK EXAMS



AAZV ZOO & WILDLIFE WORKSHOP



More information will be available on the website soon

AAZV CALL FOR CASES

American Association of Zoo Veterinarians,32nd Annual, Zoo & Wildlife Pathology Workshop 2025
Co-sponsored by the Davis-Thompson Foundation

This all day, in person workshop will be held on <u>Sunday, 24 August 2025</u> <u>from 8:00 AM to 5:00 PM Central time</u>, in association with the annual meeting of the American Association of Zoo Veterinarians in Kansas City, Mo, USA.

This eight-hour workshop brings together zoo veterinarians and pathologists for a full day of discussion of interesting cases in zoo and wildlife pathology. This year's keynote lecture will be by the noted clinician and wildlife cancer expert, **Dr. Tara Harrison**, professor at North Carolina State University College of Veterinary Medicine. Her keynote presentation is titled "**Collaborating to Conquer Cancer.**" Following the keynote lecture, veterinarians from around the world will present cases throughout an interactive all-day session with an emphasis on neoplasia of zoo, aquarium, and wildlife species.

Got a tumor with an interesting story behind it? Calling for cases that shed light on how cancer impacts our zoo animals and wildlife. As usual we will consider any zoo or wildlife case submissions, even if they do not fit the theme. If you wish to present a case, please email Dr. Rachel Burns (reburns@sdzwa.org) with a brief description (1-2 sentences) of the case by 1 June 2025. Those applicants with chosen cases will be notified by email by the following week.

INSTRUCTIONS FOR CASES SELECTED

1. 5 replicate H&E slides plus 2 unstained are required. If possible, please limit slides to one piece of tissue with the lesion to facilitate Aperio® scanning for digital production. Send by 20 July 2025 to:

AAZV CALL FOR CASES

Shipping Address (FedEx/UPS):

Rachel Burns, DVM, Dipl. ACVP
Disease Investigations, San Diego Zoo
1354 Old Globe Way
San Diego, CA, USA 92101

Mailing Address (USPS):

Rachel Burns, DVM, Dipl. ACVP
Disease Investigations, San Diego Zoo
PO Box 120551
San Diego, CA, USA 92112

2. Please prepare your 2 to 3 page write up in Microsoft Word (NOT pdf files) using the following headings on institutional letter head and send via email to Rachel Burns (reburns@sdzwa.org) by 20 July 2025:

Page 1. CONTRIBUTOR(S)/INSTITUTION: SIGNALMENT: HISTORY: GROSS FINDINGS.

Page 2 and 3. HISTOPATHOLOGIC AND CLINICAL PATHOLOGY FINDINGS: MORPHOLOGIC/ETIOLOGIC DIAGNOSIS: DISCUSSION: REFERENCES: ACKNOWLEDGMENTS

The syllabus and scanned slides from the case write-ups should be available at least one week prior to the workshop and can be downloaded from the <u>Davis-Thompson Foundation website</u> at: https://davisthompsonfoundation.org/ available-slide-conferences/

*If you need inspiration, also note that case material from 15 previous workshops are available for viewing at this site!

Workshop registration includes access to images and case information. All participants must register for this course. Remember that you are welcome to attend the Workshop even if you have not submitted a case.

EUROPEAN DIVISION SYMPOSIUM



RACEHORSE NECROPSY WORKSHOP









RACEHORSE NECROPSY WORKSHOP

September 18-20, 2025



Free



In-person



Lexington, KY

More information coming soon

AAVLD PRE-MEETING WORKSHOP



Registration will be available soon in the website

WESTERN ROUND ROBIN CASE

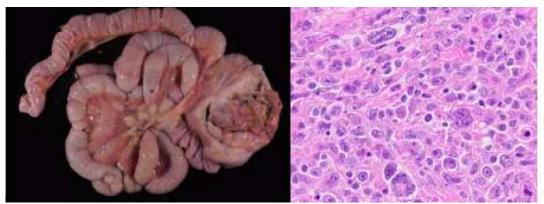
CONTRIBUTING LABORATORY: Oregon National Primate Research Center

Signalment and history:

18 year-old female Japanese macaque (*Macaca fuscata*), presented for weight loss and lethargic appearance.

Gross Findings:

A large cavitated mass involving ileum and mesentery; mass on uterine serosa; omental adhesions involving the small intestine, large intestine, uterus, body wall; and peritoneal effusion.



Left. Intestine. Gross photo of cavitated intestinal mass. Japanese macaque. Right. Sheets of atypical lymphocytes with numerous multinucleated cells.

Histology:

Within the small intestine, there is an expansile, unencapsulated mass which appears to arise from the intestinal submucosa and infiltrates and effaces the overlying mucosa and the underlying muscularis extending to the serosa. The mass is composed of a dense and diffuse proliferation of large atypical lymphocytes which demonstrate abundant pale pink cytoplasm, round to irregular shaped nuclei, occasional multinucleation, open chromatin, and prominent nucleoli. Scattered mitotic figures and apoptotic bodies are identified. There is moderate to marked anisocytosis and anisokaryosis. Frequently cells contain two large symmetric nuclei. Bizarre mitotic figures are common.

Diagnosis:

lleum: Diffuse large B-cell lymphoma (DLBCL)

Click here to see this slide in Noah's slidebox

WESTERN ROUND ROBIN CASE

Ancillary tests

IHC performed at Joint Pathology Center: the large atypical cells are (+) for CD20, CD45, CD79a, and PAX5 and (-) for CD3 and IBA1.

Comments:

Lymphomas in Japanese macaques are uncommon. However, unlike rhesus, cynomolgus, and pig-tailed macaques, they do occur spontaneously in the absence of an immunosuppressive cofactor such as SIV infection, betaretrovirus (Type D) infection, or drug-induced immunosuppression such as those used on transplant studies. There are four additional cases in our archives of files of lymphoma in Japanese macaques. Two were immunophenotyped as CD20 positive B cell origin; one was classified as multiple myeloma based on morphology; and the fourth was not further immunotyped but was thought to have immunoblastic morphology. In the literature, there are several lymphomas in Japanese macaques reported. The majority were classified as T cell or T/NK-cell type (7/8 cases). One T-cell/histiocyte-rich large B cell lymphoma in an 11 month old animal was recently reported. Association with lymphocryptovirus has been reported in some cases (as is true for lymphomas in other macaque species).

References:

- -T-cell/Histiocyte-rich Large B-cell Lymphoma of the Larynx in a Juvenile Japanese Macaque (Macaca fuscata). J Comp Pathol. 2019 May;169:1-4. PMID: 31159945
- -Spontaneous T/NK-cell lymphoma associated with simian lymphocryptovirus in a Japanese macaque (Macaca fuscata). J Comp Pathol. 2013 Jan;148(1):43-6. PMID: 22789862
- -Characterization of spontaneous malignant lymphomas in Japanese macaques (Macaca fuscata). Vet Pathol. 2015 May;52(3):566-72. PMID: 25248517
- -Malignant NK/T-cell lymphoma associated with simian Epstein-Barr virus infection in a Japanese macaque (Macaca fuscata). Suzuki J, Exp Anim. 2005 Jan;54(1):101-5. PMID: 15725687

Contributor:

Anne Lewis, DVM, PhD, DACVP
With many thanks to Shawn Thomas, DVM, DACVPM and Kelsey R.
Fiddes, DVM, Diplomate ACVP at the Joint Pathology Center

ASVP CORNER



Davis-Thompson Foundation









Australian



Descriptive Veterinary Pathology course

Mar 31 to Apr 4, 2025

In-person at the beautiful Taronga Zoo in Sydney!



JEY KOEHLER DVM, PHD, DACVP



LINDEN CRAIG DVM, PHD, DACVP



PATTY PESAVENTO DVM, PHD, DACVP

- Interpretation and description of gross, macro-micro, microscopic, and ultrastructural lesions
- Image interpretation
- Histo tests
- Peer grading assessments



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IDEXX CASECONNEXX CORNER

Signalment: 4-year-old, male, Border Collie dog

Source/ History: 1 month history of a 4 mm diameter immobile nodule within the conjunctiva and on the sclera of the right eye, with chemosis, scleral injection, and conjunctivitis.

Histopathologic Description:

Conjunctiva: This tissue sample consists of innumerable, densely tangled, up to 200 um diameter adult nematodes. The nematodes have a prominent cuticle with distinctive regularly spaced annular cuticular ridges, a thick hypodermis, variably prominent and often atrophic polymyarian-coelomyarian musculature, a small often barely distinct gastrointestinal tract, and large gonadal tracts (consistent with *Onchocerca* spp.). The nematodes are embedded within variably mature fibroplasia and multifocal scant granulomatous inflammation.

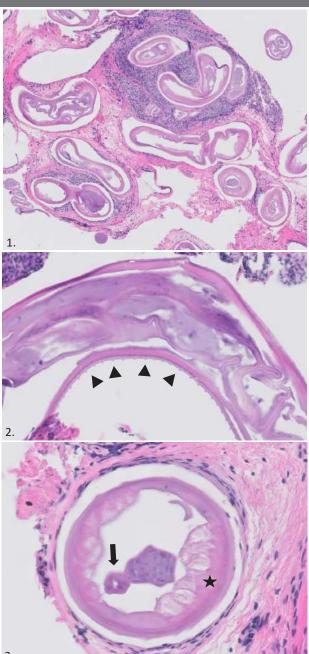
Interpretation:

Conjunctiva: Nodular conjunctivitis, granulomatous, fibrosing, with numerous intralesional filarid nematodes, consistent with conjunctival onchocerciasis

Comments:

Histopathology of the conjunctival mass is consistent with conjunctival onchocerciasis caused by infection with *Onchocerca* spp. (most likely *Onchocerca lupi*). Histologic features that facilitated parasite identification include the very small gastrointestinal tract (a feature of filarid nematodes), the frequently atrophied polymyarian-coelomyarian musculature, the thick hypodermis, and, most importantly, the presence of annular cuticular ridges, which are a feature specific to Onchocerca spp. Another important diagnostic feature for filarid nematodes is the presence of microfilariae within the uterus of female nematodes; this feature was less apparent in this case presumably due to poor preservation or degeneration of the intralesional nematodes. Onchocerca spp. infections commonly manifest with ocular disease. Disease can be acute or chronic, characterized by conjunctivitis, exophthalmos, periorbital swelling, photophobia, discomfort, lacrimation and discharge during the acute phase, and formation of ocular or periorbital granulomas in the chronic phase of disease. The life cycle and host range of Onchocerca lupi has not been fully characterized but is presumably similar to that of other Onchocerca species where blackflies and other biting arthropods serve as intermediate hosts. Due to the indirect life cycle and slow development of Onchocerca spp. within their host species, disease in dogs younger than 1 year of age is uncommon.

Figure 1. Numerous adult nematodes are embedded within fibrous stroma and multifocal mild granulomatous inflammation. **Figure 2.** Distinctive annular cuticular ridges appreciable as small cuticular bumps (black arrowheads) when the nematode is viewed in longitudinal section (a characteristic feature of *Onchocerca* spp.). Also note the thick hypodermis and atrophied musculature. **Figure 3.** Small gastrointestinal tract (black arrow) and polymyarian-coelomyarian musculature (black star).







BSTP CORNER

BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

Notice of Future Meetings

Virtual Continuing Education Symposium 12: Cardiovascular System 1st – 10th July 2025
Tuesday, Wednesday and Thursday
13.00 – 17.00 (GMT+1, London/UCT+1)



CES 12 will be held over two weeks – on the afternoons of Tuesday 1st, Wednesday 2nd, Thursday 3rd, Tuesday 8th, Wednesday 9th and Thursday 10th July 2025, from 13.00 – 17.00 (GMT+1, London/UCT+1) each day.

Approved by the Royal Society of Biology for the purposes of CPD, this event may be counted as approximately 63 credits. Approximately 21 hours of educational activity will be recorded on Attendance Certificates.

BSTP CES 12: Cardiovascular System - REGISTRATION IS NOW OPEN!

Exciting News! One of the six afternoons of CES 12 will be entirely dedicated to Clinical Pathology, and the BSTP is offering a single-day registration for this specific day. Wednesday 9th July 2025 is perfect for colleagues interested in clinical pathology who prefer not to attend the full symposium. Join us for a day of focused clinical pathology learning delivered by Dr Laura Boone! Attendance to the clinical pathology day is, of course, included in the full symposium registration.

Reduced rates for early career pathologists and free place bursaries are available.

For more information or to register visit: https://www.bstp.org.uk/events/ces-12-cardiovascular-system/

If you have any queries, please contact the event organiser: Hg3 Conferences Ltd - events@hg3.co.uk

2nd Joint Congress of the BSTP and ESTP Manchester, UK 23rd – 26th September 2025

The British Society of Toxicologic Pathology (BSTP) and the European Society of Toxicologic Pathology (ESTP) are pleased to invite you to the 2nd Joint ESTP/BSTP Toxicologic Pathology Congress entitled 'Carcinogenicity in the 21st Century; challenges of new methodologies, strategies, and their impact on pathologists'.

REGISTRATION IS NOW OPEN - Take advantage of the Early Bird Fee and register before 23rd June 2025!

The program will include new methodologies and alternatives for the assessment of carcinogenicity testing of agrochemical and pharmaceuticals, predicting carcinogenetic potential of compounds at early stages, carcinogenicity assessment of new modality drugs, risk assessment and human relevance of neoplastic and non-neoplastic findings in carcinogenicity studies, and guidelines through plenary lectures, oral presentations of original scientific work, interactive case presentations, and poster session.

In conjunction, an IATP symposium and ESTP expert workshop (Female Reproductive System) will take place immediately before and after the congress, respectively.

The social program will include the welcome reception (23rd September 2025) and congress dinner (25th September 2025). During this event help us celebrate the 40th anniversary of the BSTP – 1985 – 2025!

To register and for up-to-date information keep checking – https://www.bstp.org.uk/events/2nd-joint-congress-of-the-bstp-and-estp/ or https://www.esvp-ecvp-estp-congress.eu/estp_congress

If you have any queries, please contact the congress secretariat: Partners in Congress Organisation – m.kostons@pcopartners.nl

BSTP CORNER

BSTP Webinars

Registration to take part in BSTP webinars is free with the login details provided at least one week prior to the date of the webinar.

STP/BSTP Webinars: Dates for webinars in 2025 will be available in due course. IATP/BSTP Webinar: Dates for webinars in 2025 will be available in due course.

 ${\tt ESTP/SFPT/BSTP} \ and \ {\tt ECVP/ESVP*} \ We binars: \ {\tt *Sponsored} \ by \ the \ {\tt ESTP}, \ {\tt SFTP}, \ {\tt BSTP} \ and \ {\tt NVT}: \ \ {\tt Dates} \ for \ we binars \ in$

2025 will be available in due course.

Keep checking the BSTP website for up to date information - <u>BSTP website</u> and also the <u>group LinkedIn page</u>

Non-BSTP Events

If you are interested in attending any events organised by other organisations visit – https://www.bstp.org.uk/non-bstp-events/

If you would like details of any other events including on the BSTP website or publicising in the next 'Diary Dates' email, please send the information to the BSTP Secretariat – bstpsecretariat@gmail.com

Future BSTP events are due to take place as follows:

1st – 10th July 2025 CES 12 - Cardiovascular System

23rd – 26th September 2025 2nd Joint Congress of the BSTP and ESTP

November 2025 40th Annual General Meeting

March 2026 CES 13 - Lymphoid & Haematopoietic Systems
July 2026 CES 14 - Musculoskeletal System & Skin

November 2026 41st Annual Scientific Meeting & Annual General Meeting

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.

For up-to-date information on any events organised by the BSTP, please check the website – https://www.bstp.org.uk/bstp-events/ or https://www.bstp.org.uk/events/bstp-webinars-and-podcasts/

BSTP Contact Details

BSTP | PO Box 819 | Harrogate HG1 9XF | North Yorkshire | UK

Tel: 07894 123 533

Email: bstpsecretariat@gmail.com

Website: https://www.bstp.org.uk

LinkedIn: British Society of Toxicological Pathology

Registered Charity No: 1043793

CALENDAR OF ACTIVITIES IN LATINAMERICA

Country	City	Event	Speaker	Subject	Date	Organizer
Argentina	Córdoba	XIV Reunión Argentina de Patología Veterinaria	Don Meuten, Verena Affolter, Claudio Barbeito, Juan Micheloud, Francisco Uzal, others.	Multiple	Sept 24-26	Renata Brizzio
Brazil	Cuiabá (Mato Grosso)	ENAPAVE	Amy Durham	Hematopoietic pathology	Sept 9-12	Renato de Lima Santos
	Sao Paulo	IV Annual Latin American Roadshow	Brian Murphy	Oral and skeletal pathology	Nov 20-21	Renee Amorim
Chile	Santiago	IV Annual Latin American Roadshow	Brian Murphy	Oral and skeletal pathology	Nov 17-18	Federico Cifuentes
Colombia	TBD	TBD	Raquel Rech	Neuropathology	TBD	Paola Barato
Costa Rica	San José	TBD	Carlos González	Forensic pathology	TBD	Juan Diego Hidalgo
Guatemala	Ciudad de Guatemala	Javier Asin, Melissa Macías	Javier Asin, Melissa Macías	Multiple	July TBD	Deborah Rodríguez
México	Mexico city	IV Annual Latin American Roadshow	Brian Murphy	Oral and skeletal pathology	Nov 24-25	Itzel Yañez
	On line	5 th Necropsy Course	Laura Romero, Rubén López, Francisco Carvallo, Maria del Carmen Carmona, Alfredo Pérez, Diana Galván, Mario Bedolla, Luís García, Elizabeth Rodríguez, Mireya Juárez, Vicente Ávila, Carlos González, Elizabeth Morales, Félix Sánchez	Gross lesions in animals	Ap 20 - May 14	Rubén López
Nicaragua	Managua	Global Health Pathology Network + 3 rd meeting of the Nicaraguan division	Javier Asin, Melissa Macias, Francisco Carvallo	Multiple	Jul 21-25	Cristina Toledo
Paraguay	Asunción	TBD	TBD	TBD	TBD	Mirtha Suárez
Perú	Lima	TBD	TBD	Intestinal morphometry	TBD	Rosa Perales
Uruguay	Montevideo	11 th Meeting of the Uruguayan Division	Marti Pumarola, Fabiano Sant'Ana	Veterinary Neuropathology	Jun 23-24	Jose Manuel Verdes
Venezuela	Barquisimeto	III Annual Meeting of the Venezuelan Division	TBD	TBD	Oct 17-18	Yaritza Salas



Seminar Series in Spanish 2025



Seminarios en español 11:00am-12:30pm CDT



Intoxicaciones por plantas y micotoxinas en rumiantes
Franklin Riet-correa DVM, MSc, PhD





JULIO:

Patología ósea Fernando Dutra DVM, MSc



Patologías orales en perros y gatos. Enfoque clínico

Suanúa Serrano García DVM

12 pm



NOVIE 20 Descripción histopatológica de neoplasias Joaquin Ortega, DVM, PhD, DACVP



DICIE:

Diagnóstico de diarreas en rumiantes Paco Uzal DVM, MSc, PhD, Dipl. ACVP

Registration for individual sessions available on the website soon



More information here



Click here to register



RONDAS DE HISTOPATOLOGÍA DEL LCPG 2025 10:30 - 11:30 CT







Casos de Rotina Cesar Menk, DVM, DACVP em Português



Enfermedades virales, parte II

Mariano Carossino, DVM, PhD, DACVP, DACVM
en español





Casos curiosos em peixes ornamentais Felipe Pierezan, DVM, MS, PhD, DACVP em Português





Enfermedades de Rumiantes Javier Asin, DVM, PhD, DECVP en español

Mayo 15



Patologia no planeta dos macacos. Mayane Facin, DVM, PhD, DACVP em Português

Junio 19



Nódulos esplénicos en perros Federico Cifuentes, MV, PhD, DACVP en español

Julho 17



Casos variados Ileana Miranda, DVM, MSC, DACVP em Português

Click here to register for individual seminars















Click here to register



Davis-Thompson Foundation











18º Seminario de la Fundación

Davis-Thompson con la

XIV Reunión Argentina de Patología Veterinaria 2025



Taller de Histopatologia Convocamos a presentar casos interesantes



Fecha de presentacion: 25 de septiembre Fecha final para el envío de casos: 30 de marzo

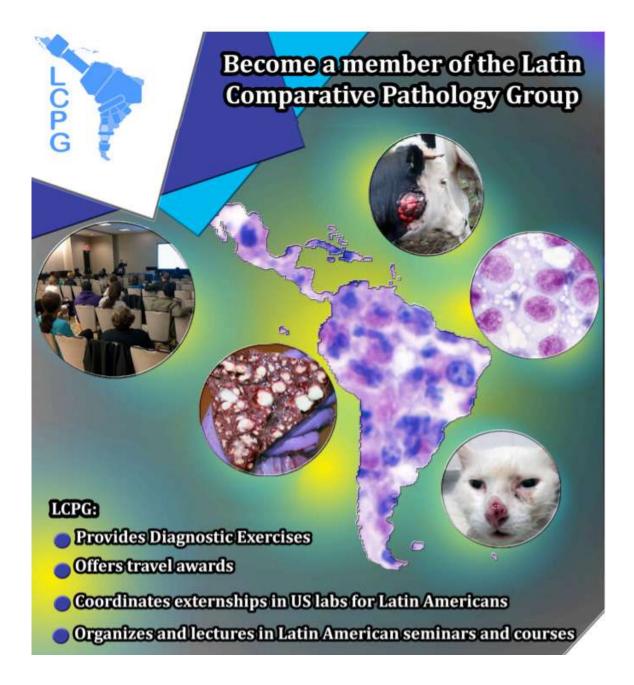


Envio de casos: fauzal@ucdavis.edu



EN PERSONA UNIVERSIDAD CATOLICA DE CORDOBA, Argentina

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Click here for more information about how to become a member

Dear colleagues,

This is a friendly reminder to renew (or start) your Latin Comparative Pathology Group (LCPG) membership for 2025. The LCPG offers great training opportunities to everyone and helps supporting pathologists and trainees in Latin America.

Although the registration deadline is Monday, March 31, 2025, the membership renewal or application for new membership is open the year around. However, LCPG award applicants with timely renewed membership will have priority over late ones, so paying the dues before the deadline is always best! The registration dues are very affordable, but provide invaluable help in many forms, including travel grants for trainees and speakers in Latin America. LCPG membership fees can be paid directly with a credit card through the Charles Louis Davis and Samuel Wesley Thompson foundation in the following link:

http://davisthompsonfoundation.org/lcpg-membership-payment/

We encourage you all to spread the word about the opportunities the LCPG offers, so more people interested in Veterinary Pathology can become members.

Find attached the 2024 ANNUAL MEMBERSHIP APPLICATION, please fill it in with your updated information and send it to lcpgsecretary@gmail.com

Thank you for your interest in joining and supporting the LCPG!

GHPN SCHOLARSHIPS



DTF-GHPN Education Scholarship For Select DTF On-Line and/or Course Material



Background. The Global Health Pathology Network (GHPN), under the umbrella of the Davis-Thompson Foundation (DTF) for Veterinary Pathology, conducts workshops in resource-constrained settings focused on enhancing veterinary diagnostic abilities using interactive educational modalities and adult learning principles. In part, the success of the GHPN training workshops is built on the successes of in-country veterinary pathologists and professionals in various locations worldwide. Consequently, to expand the sphere of the network through the development of capable, motivated professional cadre, the GHPN recognizes the importance of practicing professionals to have the opportunities for continued professional development.

Objective. Through GHPN's alignment with the DTF, the DTF will offer up to 10 educational scholarships to attend select DTF on-line courses and/or have access to the course material at no-cost.

Application Criteria. All applicants must prepare a 2-3 paragraph statement (no more than 300 words) addressing the following:

- Biographical information to include current work or academic history
- Reason(s) for applying for the DTF educational scholarship
- If awarded, the applicant's willingness to host a future GHPN workshop in his/her country.

Selection procedures and policies. GHPN leadership will screen all applications and submit the qualified applicants to the DTF for recommendation and final approval. Scholarship selection is based on the assessment of the applicant's statement and will be determined based on several factors

GHPN SCHOLARSHIPS

to include relevant background, aptitude, training and mentorship abilities in veterinary pathology and animal health. The applicant's current location of employment and/or training will also be considered to ensure equitable distribution of scholarship opportunities in the given year. Applicants should send applications 30-60 days prior to the beginning of the course to allow for adequate review of the application. A list of upcoming and/or recurring select courses can be found under "Events" tab on the DTF website: https://davisthompsonfoundation.org/

Application Procedures Questions and Answers:

Q: Where and when are applications available/due?

A: Open registration; applications can be received at any time

Q: Where should applications be sent?

A: A signed PDF or word document paragraph statements are sent to GH-PathNetwork@gmail.com

Q: What additional information/documents must accompany the application?

A: None; the signed paragraph statement is the only item required

Q: How and when will the scholarship award winners be notified?

A: Award winners will be notified via electronic correspondence sent to the email address in the paragraph statement

Q: When can the educational scholarships to attend select DTF on-line courses and/or have access to the course material be used?

A: Once awarded, the scholarship can be used at any time over a 365 day period from the date at which the scholarship is awarded. Any additional questions regarding the DTF-GHPN educational scholarships and/or the GHPN general can be submitted to GHPathNetwork@gmail.com





Dear Colleague,

The <u>Society of Toxicologic Pathology (STP)</u> is seeking to broaden its membership by reaching out to scientists and students (veterinary/residents/graduate) involved or interested in safety assessment, teaching, or research in toxicologic pathology/toxicology and inviting them to join the STP and attend our <u>44th Annual Symposium</u>: <u>Toxicologic Neuropathology: Basics and Beyond</u>, scheduled for **June 22–25**, **2025**, at the **Fairmont Chicago – Millennium Park** in **Chicago**, **Illinois**. The symposium promises an exceptional opportunity to engage with leading experts, share insights, and deepen our understanding of critical topics in toxicologic neuropathology.

To help us reach scientists and students at your institution with a variety of backgrounds and research interests, we kindly ask that you post our <u>Annual Symposium</u> (see below) in your departmental newsletter and/or continuing education section of your Website. Alternatively, please forward this information to the appropriate person or provide us with the contact information.

Please note that there are several different opportunities for **students** to apply for monetary awards through the generous Student Awards program. The deadline for most awards is **March 30**. See individual <u>award details</u> for nomination/application and selection processes. Registration fees are waived for active STP student members. Nonmember students who apply by **April 1** for STP student membership (\$35 annual dues) and are approved can also register for free. In addition, *nonmember meeting registrants who apply for membership by July 1 and are accepted will receive complimentary membership for the remainder of 2025.* Please visit <u>www.toxpath.org</u> to apply for membership.

Important Deadlines

- Abstract Submission Deadline: March 30
- Student Awards Application Deadline: March 30
- Early Bird Registration Deadline: April 30

Student Awards and Grants (Deadline: March 30) (http://www.toxpath.org/am2025/awards.asp)

- Student Travel Grants
- STP Young Investigator Awards
- STP Environmental Toxicologic Pathology SIG Student Research Award
- The Daniel Morton and Laura Dill Morton Scholarship (Deadline: November 1, 2025)
- IATP/STP Charles Capen Trainee Award (Deadline: November 1, 2025)

For the Web:

SOCIETY OF TOXICOLOGIC PATHOLOGY (STP) 44TH ANNUAL SYMPOSIUM

STP cordially invites you to the <u>STP 44th Annual Symposium: Toxicologic Neuropathology: Basics and Beyond</u>, scheduled for June 22–25, 2025, at the Fairmont Chicago – Millennium Park in Chicago, Illinois. The unifying theme of the symposium, "Effective animal-to-human translation in neurotherapeutic development," features five comprehensive sessions, covering topics such as Fundamentals of Neuropathology, Neurodegenerative Diseases, Neurobiomarkers, Neuro-Omics, Hot Topics, Challenges, and Future Directions. Join your colleagues and immerse yourself in a dynamic program with cutting-edge scientific sessions, enriching continuing education courses, and valuable networking opportunities. Please visit the <u>Annual Symposium website</u> for additional information and to review the preliminary program.

Thank you very much.

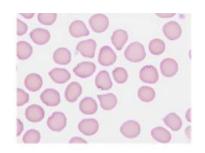
Best regards,
STP Membership Committee

STP Headquarters: 11190 Sunrise Valley Drive - Suite 300 - Reston, Virginia 20191 Tel: 703-438-7508 - Fax: 703-438-3113 - Email: stp@toxpath.org - Website: www.toxpath.org

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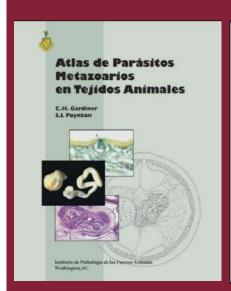


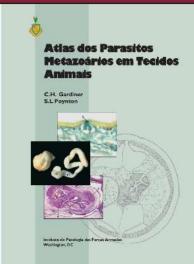
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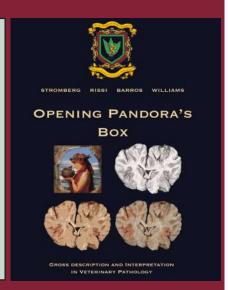












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Have slides left over from your recent slide seminar? Just looking to free up some storage space? The Foundation is looking for additional glass slides, kodachromes and other similar materials for its Correspondence Division and Study Centers. All 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 offcampus experience. For more information, contact Dr. Jim Britt, jobritt@sbcglobal.net; 501-912-1449.



DAVIS-THOMPSON FOUNDATION Phone: 847-367-4359 Fax: 847-247-1869

APRIL 2025