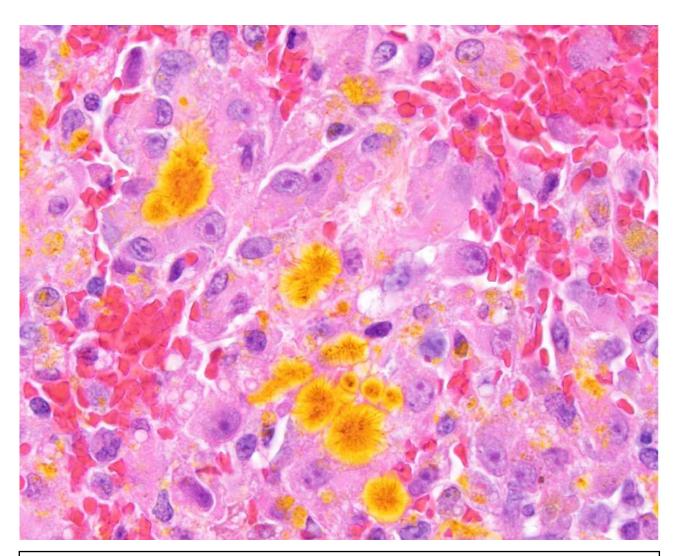


C.L. DAVIS/S.W. THOMPSON DVM FOUNDATION

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THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

July VOL. 55



The presence of hematoidin crystals in a canine histiocytoma is most likely due to:

- A. Made by cancerous histiocytes
- B. Proof of metastasis
- C. From chronic bleeding and necrosis
- D. From iron buildup

INSIDE THIS ISSUE

MONTHLY COVER IMAGE WINNER:

Wes Baumgartner DVM, PhD, Dipl. ACVP

Clinical Professor, Anatomic Pathology CVM-Veterinary Diagnostic Laboratory University of Illinois at Urbana-Champaign

Answer: C

Signalment: A 3 year old castrated Labrador Retriever mix

Hematoidin crystals suggest chronic bleeding and tissue hypoxia, common in ulcerated or traumatized histiocytomas.

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,

I am proud to present to you the July issue of the Davis-Thompson Foundation, prepared, as always, by our outstanding Managing Editors, Jeann Leal and Javier Asin. Thank you, Jeann and Javier.

If you are attending the annual meeting of ACVP in New Orleans this fall, please take advantage of the myriad opportunities offered by the Foundation and the College. On the Foundation side, these include the pre-meeting seminar on Pathology of the Nervous System, the in-person component of the Foundations of Pathology Course, the Latin Comparative Pathology Group session, the Foundation's Award Ceremony and the Board of Directors meeting. This, on top of the long list of scientific activities offered by the College during this unique and vibrant 3-day meeting. The Foundation is proud of the great working relationship we have with the ACVP as we each fulfill our shared mission to educate trainees and enrich the veterinary pathology learning community. This relationship has benefited countless trainees and pathologists in the past, and we look forward to many more years of collaboration.

And speaking of training opportunities, please peruse these pages and the website of the Foundation to find a large number of training opportunities, many of which are happening very soon. Just to mention a few, consider the Just-in-time mock exams (July; on-line), Foundations of Pathology, the Pre-meeting workshops at the Annual Meetings of the ACVP (New Orleans), American Association of Veterinary Laboratory Diagnosticians (Aurora, Colorado) and European College of Veterinary Pathologists (August; Turin), various day seminars, our regular Histology rounds and many free on-line seminars in English, Spanish and Portuguese.

As always, none of these would be possible without the great job of our terrific volunteers. Thank you!!!!

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

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



JVDI IN FOCUS



Our July focus is an article appearing in the July issue: "Canine polyostotic B-cell lymphoma: a case with clinical, immunohistochemical, and flow cytometric characterization, and review of the literature" by Matthew Kornya, Connor Bryant, Brandon Lillie, Sebastien Sanz, Kristiina Ruotsalo, Dorothee Bienzle.

J Vet Diagn Invest 2025;37(4); https://journals.sagepub.com/doi/full/10.1177/10406387251329020

An 8-mo-old Mastiff-cross dog with bone pain and lytic-proliferative lesions in the radius, ulna, femur, vertebral spinous processes, and ribs, was diagnosed with lymphoma. The dog also had anemia and thrombocytopenia, and atypical circulating lymphocytes were identified as B cells by flow cytometry. Due to the multicentric, rapidly progressive disease, the dog was euthanized. Postmortem examination confirmed extensive bone replacement by lymphoma, and infiltration of lymph nodes, spleen, and liver. Histomorphology and immunohistochemistry showed a diffuse large B-cell lymphoma that was immunopositive for PAX5 and CD20, and immunonegative for CD3. Lymphoma of bone is rare in dogs and humans, and is most frequently reported in pediatric individuals. Including our case, 7 of 14 reported cases occurred in dogs <2-y-old, and all but 1 had polyostotic disease. Long bones, ribs, and vertebrae were affected most often, and the distal metaphyseal region was targeted in long bones. Visceral and nodal tissue infiltration was common, and all tumors had a diffuse architecture. Most dogs with polyostotic lymphoma were euthanized at the time of diagnosis, and survival was <6 wk in dogs that were treated with chemotherapy or surgery.

JVDI IN FOCUS

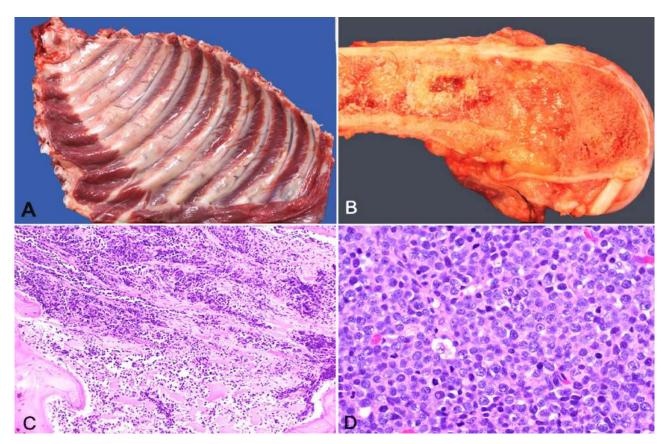


Figure 3. Polyostotic B-cell lymphoma in a dog. **A.** Gross appearance of bony proliferations at the costochondral junctions of ribs. **B.** Medullary infiltrates with lysis of cortical bone of the distal femur. **C.** Section from the proximal tibia with bone lysis and replacement by neoplastic lymphocytes. H&E. **D.** The popliteal lymph node is replaced by sheets of large lymphocytes with interspersed single small lymphocytes and macrophages, and occasional plasma cells. The large lymphocytes have round nuclei, peripheralized chromatin, and single or occasionally multiple nucleoli. H&E.



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.



DIAGNOSTIC EXERCISE



Case #: 260; Month: May; Year: 2025

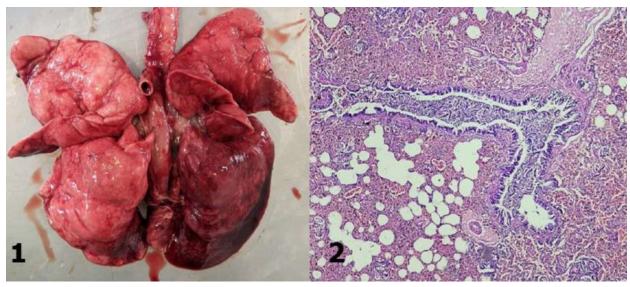
Contributors: Renata Brizzio, Cecilia Degiovanni*, Ana Maria Martin.

Patologia Animal Cordoba, Cordoba, Argentina.

*Corresponding author: cecidegiovanni28@gmail.com

History: A juvenile, gray fox arrived at the zoo with dehydration, depression and poor body condition. He died the day after arrival.

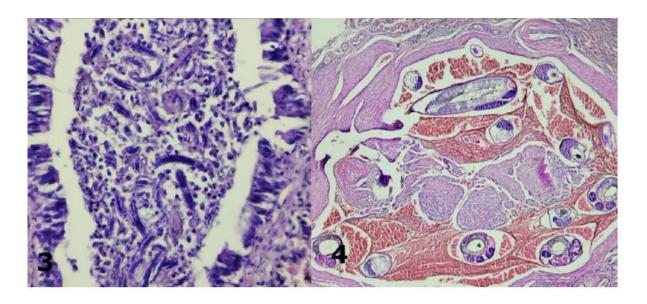
Necropsy findings: Grossly, both lungs (Fig. 1) were markedly edematous and had an increased consistency. They did not collapse when the thoracic cavity was open. Samples from both lungs (Figs 2, 3 and 4) were submitted for histopathology.





DIAGNOSTIC EXERCISE





Follow-up questions:

- Morphologic diagnosis
- Etiology

Click here for answers

Associate Editor for this Diagnostic Exercise: Daniel Rissi Editor-in-chief: Claudio Barros

^{*}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/).









Basic Mechanisms of Disease and Diseases of Regional Interest

Institute of Veterinary Medicine, Ibn Khaldoun University, Tiaret, Algeria

June 15-17, 2025

By Corrie Brown



Group photo

Over three days, 35 veterinarians from university, government, and private sectors, gathered to discuss basic mechanisms of pathology, including disturbances of circulation and inflammation. They reviewed types of exudates and what each means, as well as practicing making morphologic diagnoses, using

previously prepared images. Endemic diseases in Algeria were reviewed, including those of poultry, sheep and goats, and cattle. In addition, there was a review session on zoonotic diseases of livestock which are present in the country. All training was done using group work, interactive sessions, and participatory exercises. Overall, there was excellent participation, learning objectives were achieved, and evaluations were positive.

DAY ONE



From L to R: Drs. Aggad Habib, Corrie Brown, Hemida Houari, and Benallou

Opening Ceremony

Dr. Benallou, Director of the Veterinary Institute at the University, welcomed the participants. Dr. Corrie Brown expressed her pleasure at being in Algeria again and said she looked forward to getting to know all of the participants. Dr. Houari gave some background about experiences with Dr. Corrie and the Uni-

versity of Georgia. He credited Davis-Thompson Foundation for supporting this workshop. Then Dr. Hakim Barghani, who is the Director of Veterinary Services for the state (wilaya) of Tiaret, reviewed the numerous disease incursions which have occurred over the last few years – highly pathogenic avian influenza, peste des petits ruminants, bluetongue, foot-and-mouth disease (with recurring new serotypes), and now lumpy skin disease. Algeria is the largest country in Africa and has thousands of kilometers of borders, often with adjoining nations that have poor disease control. Being able to recognize new diseases and report rapidly is very important.

Introductions

Each person stood and stated their name, nature of their work, and one interesting "factoid" about themselves.

We reviewed the Learning Objectives:

At the end of the workshop, participants will be able to:

- 1. Identify specific mechanisms of disease through gross lesions, and form a list of differential diagnoses
- 2. Create morphologic diagnoses for accurate communication
- 3. Describe the pathogenesis of common diseases of livestock in Algeria

Corrie described the system of surveillance, as described in the WOAH Terrestrial Code. It is a tripartite system, involving field veterinarians, laboratory, and policy makers. All must work together to ensure there is effective surveillance to allow for control of serious animal diseases.

Diseases of the Public Good / Diseases of the Private Good:

Each table was tasked with writing ten diseases on post-it notes for a particular

commodity group (dairy cattle, beef cattle, sheep/goats, poultry, and horses). Then one person from each table came to the front and the group determined if that disease was "of the public good" or "of the private good".

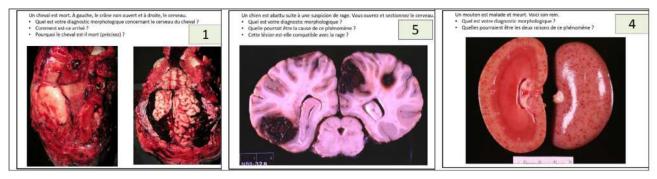
Control of the Public Good Diseases requires excellent surveillance, which in turn is dependent on abilities of the field veterinarian awareness and communication abilities. This was again emphasized by Dr. Barghani.

Disturbances of Circulation

Each table had to diagram the circulation, from heart to lungs back to heart, to body. Then Corrie described the circulation at the tissue level. We discussed types of hemorrhage.

Shock

Every animal dies of shock. There are three types of shock – septic/distributive; hypovolemic; and cardiogenic. Then participants worked through the scenarios regarding hemorrhage and shock, some of which are shown below:



Inflammation

Every participant was given a copy of the Manual of Field Diagnosis for Specimen Collection to Improve Diagnosis of Animal Diseases (also known as "The Necropsy Manual"), in French, published by LifeStock. Participants were given time to review the Chapter on How Gross Lesions Can Inform Diagnosis, and How to Make a Morphologic Diagnosis. Then the groups did many exercises to

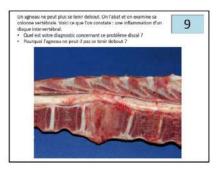


Group work

make morphologic diagnoses and discuss their meanings.

For instance, here are some of the scenarios used for making morphologic diagnoses and discussing their meanings. that disease was "of the public good" or "of the private good".







At the end of the day, we did a game where participants had to name the inflammation of a particular organ. The organ was named and the first person to correctly shout out what inflammation of that organ was called, could sit down. The first table with all of the members sitting won the game.

DAY 2

The day began with participants reviewing what was done yesterday and what they learned.

The rest of the morning was poultry diseases – using scenarios, each with multiple questions at the end. Diseases included: Marek's, HPAI, infectious bronchitis, and colibacillosis. These were scenarios used many times in GHPN courses, and they were translated to French using Google translated and then printed for this course. The Google translation proved very efficient.

After all the scenarios were examined, the groups took turns presenting to the whole class and leading the discussion. Corrie often stepped in with information about the pathogenesis, using flip charts to demonstrate, for instance below are the flip charts to clarify some aspects of colibacillosis and highly pathogenic avian influenza. These flipcharts always generated good discussions, with contributions from the participants. One poultry specialist said, "We live with colibacillosis, always, this helps me to understand more how to control it."

After lunch, there were selected diseases of ruminants, done using scenarios and group work again – FMD, PPR, Johnes disease, and Lumpy Skin Disease. Groups were selected to report out. There was considerable discussion about control methodologies, especially vaccines, so Corrie led a discussion about various vaccine formulations, why some work better than others – basically the pro's and con's of various types of vaccines – MLV, killed vaccine, recombinant,

DAY 3

Zoonotic Diseases of Livestock

Participants again worked in groups, at tables, discussed three previously-prepared scenarios – rabies, Mycobacterium bovis, and anthrax. Discussions about these three diseases were lively and informative. Algeria does not require veterinarians to be vaccinated against rabies, and so they receive vaccine only if they are bitten by a potentially rabid animal. Also, dogs with CNS signs which bite a human are not immediately euthanized, rather they are kept for two weeks. If the animal dies, the brain is checked for rabies. Post-exposure prophylaxis is readily available in Algeria but it is expensive. Several veterinarians in the group had dealt with anthrax cases in cattle.

Checking for antibodies or checking for the agent

Participants worked through a group of previously prepared short scenarios about acute vs chronic diseases, and how checking for antibodies will tell you "where the disease has been" or "if the animal has been vaccinated" but probably will not inform you about an acute disease (such as FMD) of the cause of an abortion (in which the dam may be chronically infected). Requesting and interpreting tests both require understanding of the disease.

Final Exercise

The last exercise was designed to help determine attainment of learning objectives. Each table chose an index cord on which was written one of the following statements. They then had 3 minutes for table discussion followed by a presentation which could last no more than 2 minutes. This proved to be a very successful exercise. Here at the topics which were distributed:

- What makes FMD so hard to control and why is it so important?
- How do you classify diseases of public good vs private good?
- Explain the pathogenesis of rabies virus.

- What is the pathogenesis of anthrax?
- Explain the triangle that is surveillance, what does each corner do?
- Explain Adult Learning to your colleagues.

Closing Ceremony

Dr. Houari, Dr. Barghani, Dr. Benallou, and Corrie all made short closing remarks. Then certificates were awarded, and cake was served! Participants expressed hope that further workshops could be held.



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

May 21-23, 2025 By Tamara Dolenšek

This year, the Eastern European Meeting was held in Cluj-Napoca, the second-most populous city in Romania. Once the capital of the historical principality of Transylvania, Cluj-Napoca represents a vibrant and fast-growing city. The mee-



ting took place at the University of Agricultural Sciences and Veterinary Medicine (UASVM) Cluj-Napoca in co-organization by the local faculty members and the European Division of the Davis-Thompson Foundation.



Dr Melanie Dobromylskyj, Finn Pathologists, UK, captured the participants' interest with her profound interest and extensive knowledge of feline pathology. Her introductory lecture on what makes cats so special caught everyone's attention and held their curiosity thro-

ughout the event. Participants learned both the common pathologies seen in cats as well as the more odd and rare entities, such as giant cell reparative gra



Participants at the Turda Salt Mine

nulomas of feline toes. To keep the schedule diverse, Professor Brian Murphy, UC Davis School of Veterinary Medicine, USA, kicked off with lectures on the diagnostic philosophy applied to cases in oral and maxillofacial pathology. Even though this is a specific field that isn't every pathologist's cup of tea, Dr Murphy gave the participants a very systematic and logical algorithm that should help them tackle such entities. Hopefully, this approach has encouraged more veterinary pathologists to delve into this subspecialty.

The formal part of the second day is traditionally shorter and includes a lecture from a representative of the Local Organizing Committee. Professor Flaviu

Alexandru Tăbăran presented curious, not so well documented entities that he has observed on the necropsy floor, such as cases of splenosis adjacent to pancreatic tissue. After two more lectures from Dr Dobromylskyj and Professor Murphy, the entire delegation headed to Turda Salt Mine. This impressive salt mine boasts undergro-



und halls measuring up to 90 m (295 feet) in height and 87 m (285 feet) in diameter. After returning to UASVM Cluj-Napoca campus, interested participants were taken on a short walking tour into the city's center where they then enjoyed some well-deserved food and drinks.



The last day of the meeting included lectures on oral neoplasia, equine oral pathology, feline liver, pancreatic and cardiac disease as well as a joint lecture by Dr Dobromylskyj and Professor Murphy on feline oral disease. As was the case during the previous two days, participants had the opportunity to ask both

invited speakers both during the lectures as well as during the breaks. Both speakers were amazing at replying to numerous questions and indulging in discussions.

The meeting came to an end with a formal dinner at a traditional Romanian restaurant in Cluj-Napoca. Following the enormous quantities of delicious local cuisine, there was hardly any space left for dessert, but we did our best. The Local Organizing Committee did a wonderful job by organizing the event at their lovely campus which provided a pleasant social atmosphere.

We are delighted by the continuous string of these Eastern European Meetings as they provide an invaluable opportunity for veterinary pathologists in the region. The veterinary pathology caravan won't be travelling too far next year, since the University of Veterinary Medicine in Budapest will be hosting the 7th annual meeting in neighboring Hungary. Make a mark in your calendar for May 2026 and stay tuned since another fabulous opportunity for continued education awaits in Eastern Europe!

Photo credits: Prof. Simon Priestnall, Kalla Hédi, Local Organizing Committee

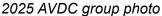
AVDC REVIEW

The Davis-Thompson Foundation at the 6th Annual Veterinary Diagnostic Conference (AVDC), Nanjing, China

June 14-16, 2025 By Francisco Uzal

The 6th Annual Veterinary Diagnostic Conference was held in Nanjing, China, from June 14 to 16. This was a fantastic meeting with close to 1,000 attendees from all over the country and excellent scientific presentations. Our CEO, Francisco (Paco) Uzal, was invited to attend the conference and give a presentation on the International Veterinary Pathology Program of the Davis-Thompson Foundation. The session was very well attended by a large group of pathologists and trainees eager to learn about the training opportunities offered by the Foundation. The field of veterinary pathology is growing rapidly in China and training requirements are in high demand. Conversations are currently ongoing with the organizers of the meeting for a possible annual Davis-Thompson pre-meeting seminar in the future.







Dr. Uzal at his lecture

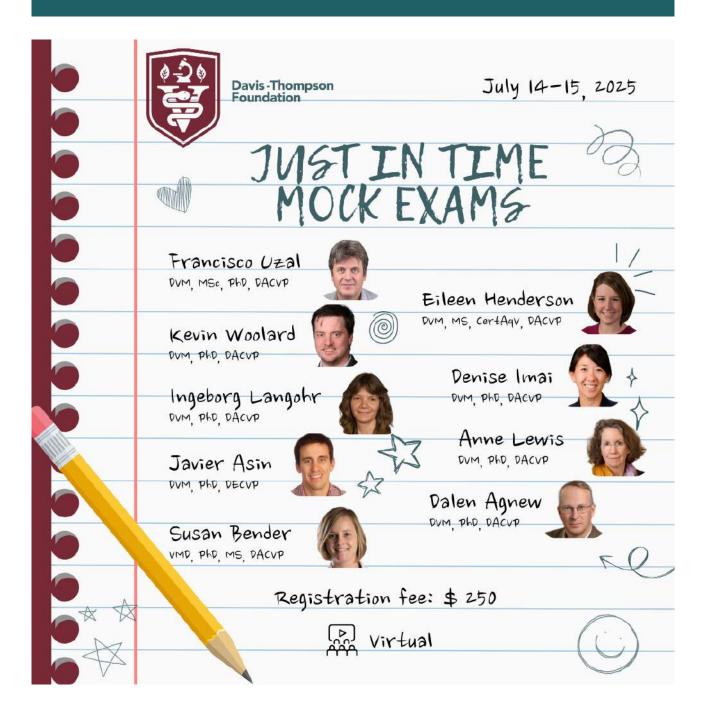
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WDA PATHOLOGY WORKSHOP



Davis-Thompson Foundation July 26, 2025
WDA Wildlife Pathology
Workshop





AAZV ZOO & WILDLIFE WORKSHOP



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



ENAPAVE



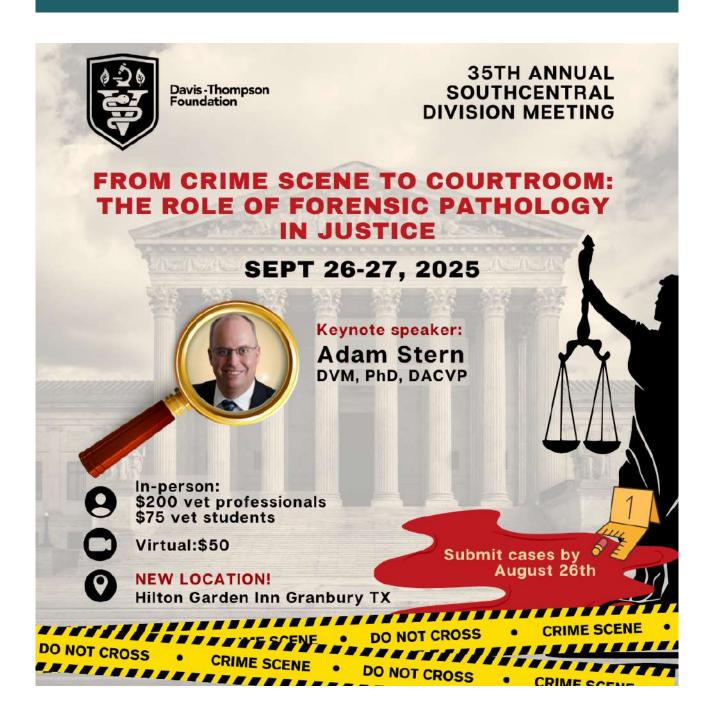
FOUNDATIONS OF PATHOLOGY



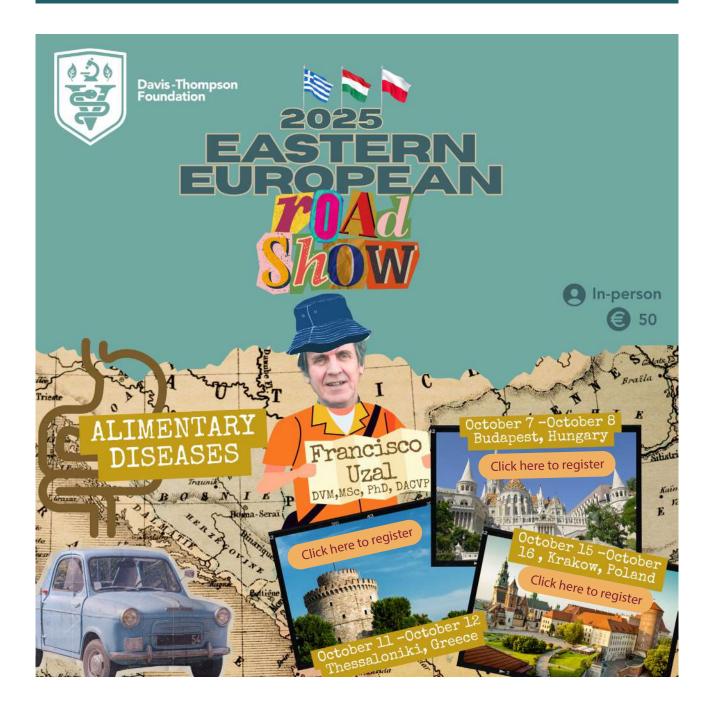
RACEHORSE NECROPSY WORKSHOP



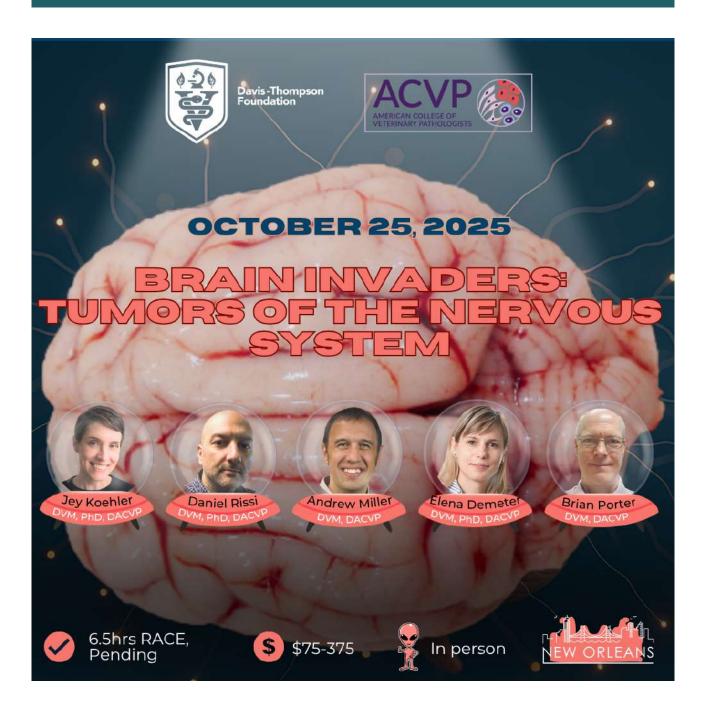
SOUTHCENTRAL DIVISION MEETING



EASTERN EUROPE ROADSHOW



ACVP PRE-MEETING WORKSHOP

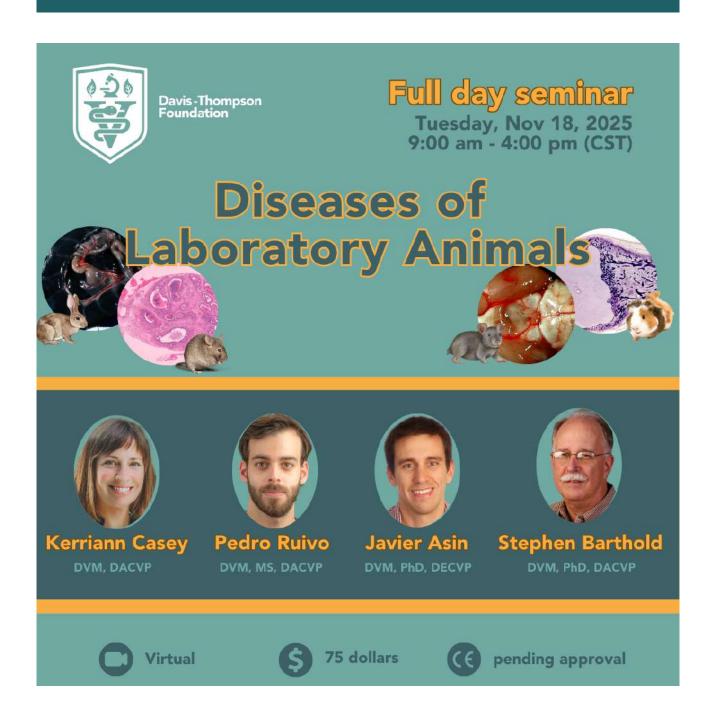


AAVLD PRE-MEETING WORKSHOP



Click here to register

DISEASES OF LABORATORY ANIMALS



Click here to register

WESTERN ROUND ROBIN CASE

CONTRIBUTING LABORATORY:

North Dakota State University - Veterinary Diagnostic Laboratory

Signalment and history:

Received three small representative sections of a 48-pound caudal abdominal mass surgically removed from an 8-year-old, female intact, pot-bellied pig.

Histology:

Abdominal mass: Examined sections have no natural borders. Expanding the sections is a multinodular, non-encapsulated, variably cellular, poorly-demarcated, moderately-well differentiated neoplasm composed of pale eosinophilic spindle cells that are arranged in interlacing streams and bundles and separated by fibrous connective tissue and marked edema. Neoplastic cells have indistinct cell borders, large amounts of eosinophilic cytoplasm, and oval to elongated nuclei with finely stippled chromatin and 1-2 distinct nucleoli. Mild anisocytosis and anisokaryosis are present, along with no mitotic figures per 2.37 mm^2 tissue area. The neoplasm extends to multiple margins.

Immunohistochemical staining: Sections of the mass are stained with antibodies to smooth muscle actin. Neoplastic cells demonstrate strong cytoplasmic immunoreactivity. Controls are appropriate.

Diagnosis:

Abdominal mass: Leiomyoma

Comments:

Histologic features are consistent with a tumor of smooth muscle. Given the location in the caudal abdomen, uterine leiomyoma, which is common in older sows, is the main differential. [The rDVM agreed the mass was likely from the uterus after the report was sent.] Leiomyosarcoma cannot be completely ruled out due to the limited sections of tumor examined. However, leiomyoma is more common in aged pot-bellied pigs than leiomyosarcoma. In either case, both tumors tend to be locally invasive rather than metastatic. Hysterectomy should be curative, although active monitoring is recommended.

WESTERN ROUND ROBIN CASE

Contributor:

Heidi Pecoraro, DVM, PhD, DACVP





Click here to see this slide in Noah's slidebox



WESTERN ROUND ROBIN CALL

Are you interested in participating in the next round of Western Round Robin?

Western Round Robin is a slide conference that has occurred annually for 30+ years.

In 2023, the conference transitioned to a digital format and the slides are uploaded to Noah's slidebox. Each participating laboratory sends a set of 4 cases with write-ups in November. Each month, a case is featured in the Davis-Thompson Foundation newsletter.

The slide seminar has a new coordinator: Dr Nicolas Streitenberger (UC Davis), and we are already organizing the next round of submissions. If your laboratory is interested in participating, please contact Dr Streitenberger (streitenberger@ucdavis.edu) for details.





ASVP CORNER

ASVP & DTF SCIENTIFIC CONFERENCE

THE HAEMATOLYMPHOID SYSTEM



DOROTHEE BIENZLEKeynote Speaker

Keynote Speake Professor Emeritus Guelph University



CLAIRE CANNON

Invited Speaker Specialist Oncologist The University of Melbourne



GARY LEE

Invited Speaker
Clinical & Anatomic Pathologist
IDEXX Laboratories



JOHN MACKIE

Invited Speaker Specialist Pathologist QML Vetnostics



PHILLIP CARTER

Invited Speaker
District Vet
Local Land Services North Coast

REGISTER NOW

17-19 OCTOBER, 2025

RYDGES SOUTHBANK TOWNSVILLE, QLD

www.asvp.asn.au/2025conference





IDEXX CASECONNEXX CORNER

Signalment: 10-year-old, female, spayed Brittany Spaniel dog Source/ History: 5 cm x 4 cm x 3 cm multilobular mass arising from the clitoral fossa.

Figure 1. Well-circumscribed, densely cellular glandular epithelial neoplasm expanding in the deep collagenous connective tissues of the mucosa of the clitoral fossa. Figure 2. Neoplastic epithelial cells are arranged in variably thick cords, tubules and rosettes (histologically resembling apocrine gland adenocarcinoma of anal sac origin).

Histopathologic Description:
Expanding within the subepithelial stroma of the clitoral fossa, there is a densely cellular, unencapsulated, mildly infiltrative, mostly well circumscribed neoplasm consisting of neoplastic epithelial cells arranged in anastomosing narrow to thick cords, tubules, rosette formations or solid, faintly packeted sheets supported by delicate fibrovascular septae. The neoplastic cells range from polygonal to cuboidal to columnar with indistinct cell borders, scant to moderate amounts of eosinophilic, finely granular cytoplasm, round-oval nuclei with finely to coarsely stippled chromatin and 1-2 small, poorly distinct, magenta to basophilic nucleoli. There is mild anisocytosis and anisokaryosis with 23 mitoses in 2.37 mm2.

Interpretation:

Clitoral carcinoma

Comments:

Histopathology is consistent with a clitoral carcinoma. Clitoral carcinoma is a rare neoplasm of the female canine genital apparatus, originating from the apocrine glands located at the base of the clitoris and in the clitoral fossa. This neoplasm has many overlapping clinical and microscopic features with apocrine gland adenocarcinoma of anal sac origin, including a propensity to cause the paraneoplastic syndrome of "hypercalcemia of malignancy". No breed prevalence is yet recognized for this entity, and most cases occur in middle aged to elderly dogs. This neoplasm does not appear to be hormone-dependent as most reported cases have occurred in dogs who were spayed early in life. Clinically, these neoplasms may be found incidentally but, more commonly, they are associated with clinical signs of lower urinary tract disease including presence of a visible vulvar mass, polyuria-polydipsia, frequent licking of the vulva, or hemorrhagic vulvar discharge. The long term outcome of clitoral carcinoma is poor in the majority of cases with disease being characterized by aggressive and infiltrative regional growth with a high incidence of locoregional lymph node metastasis. However, cases in which surgical excision can be performed and that are free from metastases may have a better prognosis. Dogs with metastatic disease most commonly have locoregional metastases in the inguinal, medial iliac, and internal liliac lymph nodes. In one study, despite the presence of metastatic disease, dogs that received palliative treatment, either debulking surgery, chemotherapy (e.g. prednisone, carboplatin), or treatment for management of hypercalcemia of malignancy, survived between 5 and 14 months. In this same study, dogs without evidence of metastatic disease (veri management of hypercalcemia of malignancy, survived between 5 and 14 months. In this same study, dogs without evidence of metastatic disease (veri management of hypercalcemia of malignancy, survived between 5 and 14 months. In this same study, dogs without evi

Verin R et al. 2018: Canine Clitoral Carcinoma: A Clinical, Cytologic, Histopathologic, Immunohistochemical and Ultrastructural Study. Vet Pathol 2018; 55(4): 501-509.





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.

ESTP/SFPT/BSTP and ECVP/ESVP* Webinars: *Sponsored by the ESTP, SFTP, BSTP and NVT: Dates for webinars in

2025 will be available in due course.

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

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
Ecuador	Quito	I Ecuatorian Seminar	Francisco A Uzal, Francisco R Carvallo	Multiple	Dec TBD	Francisco Cabrera
Guatemala	Ciudad de Guatemala	IV Guatemalan Seminar	Javier Asin, Melissa Macías	Gross pathology of ruminants	July 17	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, María 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 + III meeting of the Nicaraguan division	Javier Asin, Melissa Macias, Francisco Carvallo	Multiple	Jul 21-24	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



Patología en signátidos: caballitos de mar, dragones de mar y peces pipa

12 pm Estefanía Montero Cortijo DVM, PhD



JULIO:

Patología ósea Fernando Dutra DVM, MSc



SEPTIE

■ 12 pm

Patologías orales en perros y gatos. Enfoque clínico Suanúa Serrano García DVM



NOVIE 20

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



DICIE:

4

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

Registration for individual sessions is available on the website



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





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





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





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

Click here to register for individual seminars





24, 25 Y 26 DE SEPTIEMBRE, 2025

Actividades pre jornada el 23!

ORADORES: DON MEUTEN, VERENA AFFOLTER, CLAUDIO BARBEITO, JUAN MICHELOUD, FRANCISCO UZAL, Y MÁS

EVENTOS PREVIOS

EVENTOS ESPECIALES

Taller de escritura cientifica

- Taller de histopatologia
 - Encuentro SAOV





EN PERSONA 🙎 UNIVERSIDAD CATOLICA DE CORDOBA, ARGENTINA











Click here to register



















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



Envio de casos: fauzal@ucdavis.edu



CLOSED









DE LA REPÚBLICA URUGUAY

11º Seminario Uruguayo de la Fundación Davis-Thompson

Neuropatología Animal: Bases para el diagnóstico anatomopatológico

June 23 & 24, 2025



José Manuel Verdes Responsable



Martí Pumarola



Fabiano Sant'Ana



Faculty of Veterinary. Universidad de la Republica. Route 8, km. 18 \$ route 102 Montevideo, Uruguay.

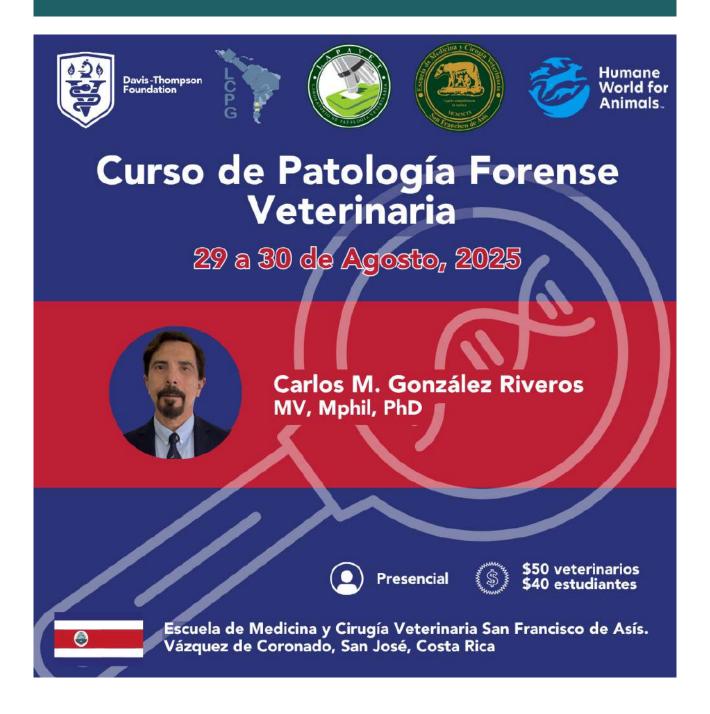


en persona



\$U 1200

Click here to register



More information will be available on the website soon



LATIN COMPARATIVE PATHOLOGY GROUP PRESENTS:

THE NEW WORLD SCREWWORM

AN UNWELCOME RETURN?



PRESENTER:

DR. ROGER RAMIREZ BARRIOS, DVM, MS, PHD, DACVM (PARASITOLOGY)
DEPARTMENT OF BIOMEDICAL SCIENCES AND PATHOBIOLOGY
VIRGINIA MARYLAND COLLEGE OF VETERINARY MEDICINE
VIRGINIA TECH

Registration is free but required.

Gaylord Rockies Resort & Convention Center

> November 1, 2025 7:00 AM-8:00 AM

Register Here!

































More information will be available on the website soon



XXVI Interinstitutional Seminar of Histopathology in Argentina

by Dra. Mariana Machuca and Mag. Natalia Caggiano

The XXVI Interinstitutional Seminar of Histopathology in Argentina was held in the city of La Plata on June 12, 2025. These meetings have been organized two or three times a year since 2012 by the Laboratory of Special Pathology Dr. B. Epstein (LAPEVET) of the Faculty of Veterinary Sciences at UNLP, in collaboration with the Pathology Area of the Faculty of Veterinary Sciences at the University of Buenos Aires (UBA) and Pathobiology Research Group, INTA Castelar. Their primary objective is to enhance the description and evaluation of microscopic lesions and to develop diagnostic interpretation skills. The seminars provide a valuable and supportive space for sharing interesting cases, exchanging ideas, and training teachers and advanced students in histopathology.

The seminar was attended by 35 participants, including pathologists, professors from 7 institutions, postgraduate students, and private practitioners from Argentina. Some participants joined virtually from various provinces and overseas.

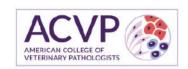


On this occasion, the traditional histopathology seminar featured the presentation of nine fascinating cases involving domestic and non-domestic species, contributed by seven different institutions or private practitioners. The slides were scanned by Pathobiology Research Group, INTA Castelar, allowing all participants to review the cases virtually before the seminar.

Thank you to all the participants!









12:00 - 12:30 PM

12:30 - 1:30 PM

1:30 - 2:30 PM

Case presentations

Bone & Joint Pathology

Business meeting



Grad students and residents



Linden Craig DVM, PhD, DACVP



Members +



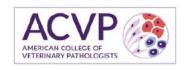
All events are open to all annual meeting registrants



New Orleans, USA







Present it at ACVP Annual Meeting

During the LCPG session, October 27th, 2025

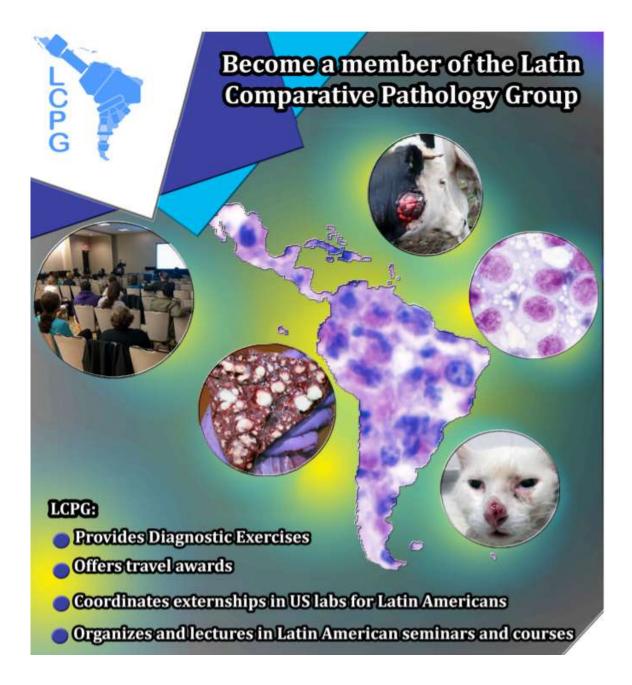
Calling all veterinary graduate students and residents to submit abstracts for oral presentation

220 words

English

by June 27

email: mmaciasrioseco@ucdavis.edu



Click here for more information about how to become a member

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.

This scholarship is geared toward professionals without access to traditional residency training programs.

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.

GHPN SCHOLARSHIPS

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 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?

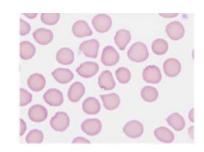
A: Once awarded, the scholarship can be used at any time over a 365 day period from the date at which the scholarship is awarded.

Any additional questions regarding the DTF-GHPN educational scholarships and/or the GHPN general can be submitted to GHPathNetwork@gmail.com

Have you seen a Pathology Error published in a scientific journal?

Help us determine the extent of the problem

Submit to the ACVP Errors in Publications Web Portal https://www.acvp.org/page/ErrorsinPublication

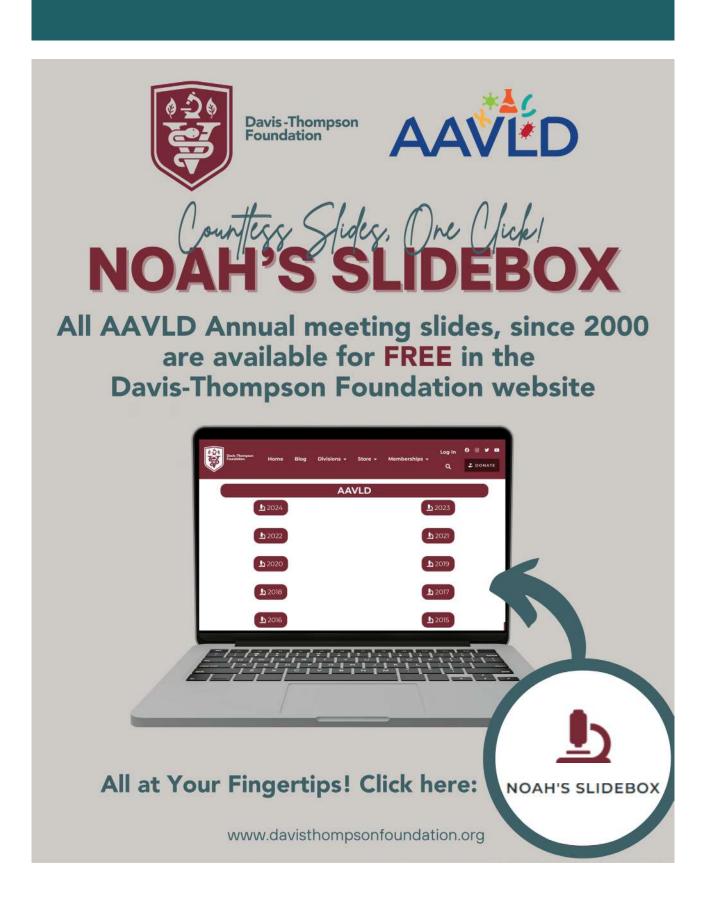


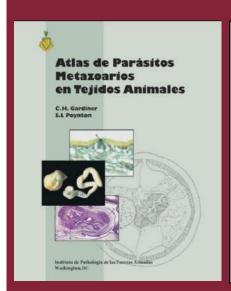
Click here to listen to past episodes of the podcast

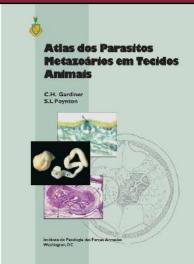


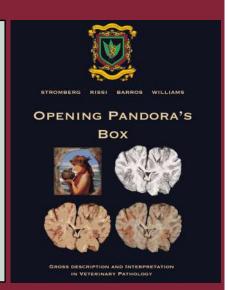












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RETIRING?

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

Davis-Thompson Foundation Pathology Externship

Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always interested in having veterinary students apply for an externship and we would like to add more externship sites that do not usually have veterinary students, to help increase their interest and knowledge of pathology with some 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

JULY 2025