



**Davis-Thompson
Foundation**

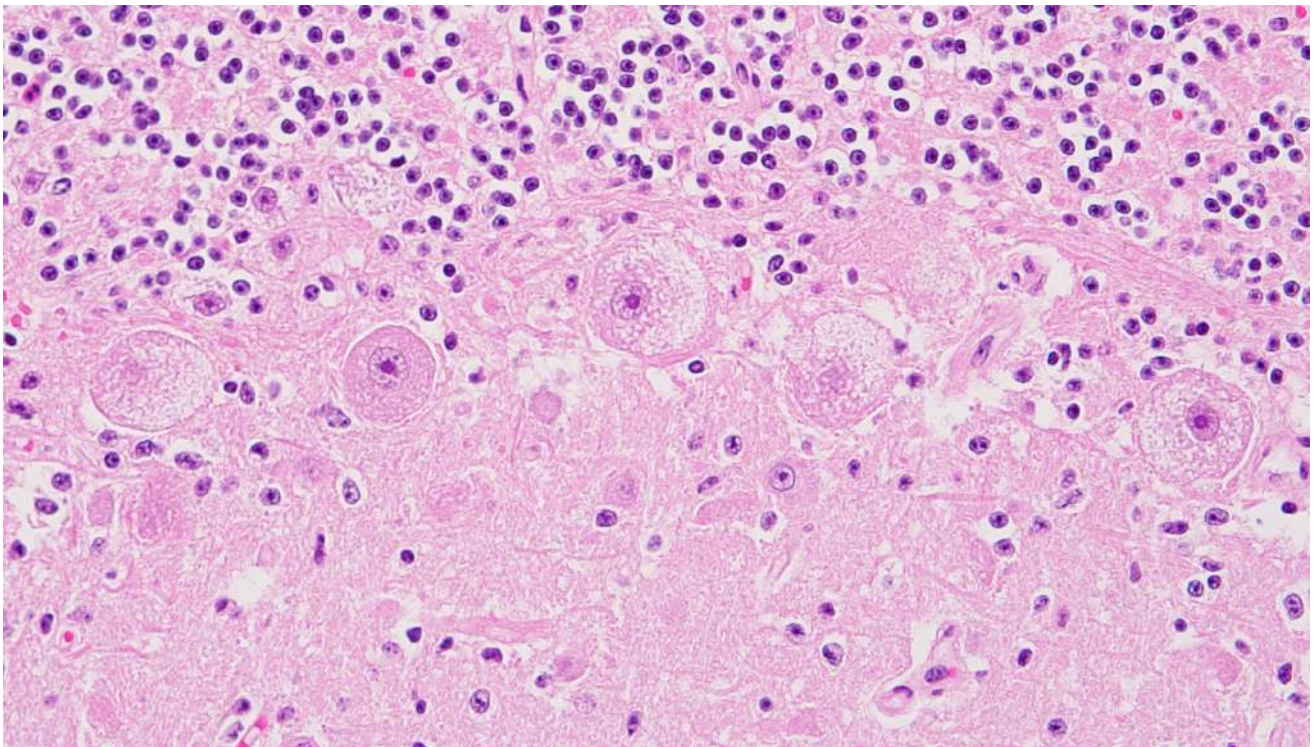
C.L. DAVIS/S.W. THOMPSON
DVM FOUNDATION

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

THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

J u n e

VOL. 54



What is the toxin responsible for locoweed poisoning

- A. Ricin
- B. Glycosides
- C. Gallotannins
- D. Swainsonine



Monthly cover photograph winners:
Drs. Robert Bill Moeller & Anibal Armién

California Animal Health & Food Safety Laboratory System (UC Davis)

Answer: D. Swainsonine

History/ clinical signs:

One heifer was found dead. Another 9 heifers presented with ataxia. There was evidence of abortions. According to the owner the pasture was full of locoweed. One animal was euthanized and submitted for histopathology.

-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 June issue of the Davis-Thompson Foundation newsletter, with the compliments, as usual, of our outstanding managing editors Javier Asin and Jeann Leal.

Please peruse these pages to find information about the many training opportunities around the world, in several languages.

While CLIC is starting next week, keep in mind that POLA is coming soon and registration is still open. We keep working hard in the design of our Foundations of Pathology course. These are the words of President Koehler about it:

"We are continuing to work on our newest course, Foundations of Pathology. This course, which we highly recommend for first-year residents, will be similar to the previous Descriptive Veterinary Pathology course but will be aimed at those just beginning their journey. We want to get you off to a great start by sharing with you our accumulated knowledge about how to evaluate, interpret, and describe gross, microscopic, and ultrastructural lesions, plus how to properly interpret IHC, ISH, and molecular testing. We will have discussions about how to structure study during your residency, available resources, and help keep you from making mistakes we have seen people make. We believe this course will create a strong foundation on which you can build, in whatever residency program you are in. The course will include a virtual component and an in-person component at the annual ACVP meeting. A detailed course schedule and registration link will be coming in the next few weeks so check the website frequently!"

Also new this year is the "Just in Time Mock Exams", two full days of mock exams dedicated to aspiring veterinary anatomic pathologists, presented by a great team of experienced pathologists. If you are doing necropsies of racehorses, consider attending the 3-day Racehorse Necropsy Workshop, a hands-on course, this year co-sponsored by the Horse Integrity and Safety Authority, the organization that is regulating horse racing in the US.

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

Warm regards

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



JVDI IN FOCUS

Our June focus is an article appearing in the upcoming July issue: “***Mycobacterium genavense* granulomatous typhlocolitis in a horse**” by Alana J. Kramer, Tais Meziara Wilson, Shune Kimura, Erin Groover, Marlene DeLeon-Carnes, Rachel L. A. L. T. Neto.

J Vet Diagn Invest 2024;35(4). <https://journals.sagepub.com/doi/abs/10.1177/10406387241247204>

A 23-y-old gelding was presented to a veterinary teaching hospital with a history of chronic, refractory diarrhea. Clinically, the horse was in poor body condition, with a thickened and corrugated large intestine identified by transcutaneous abdominal ultrasonography. At postmortem examination following euthanasia, the large colon and cecum had segmental thickening of the intestinal wall with innumerable mucosal ulcers and prominent polypoid mucosal masses. Many mesenteric and hepatic lymph nodes were enlarged. Histology revealed granulomatous and ulcerative typhlocolitis and granulomatous lymphadenitis with myriad acid-fast, variably gram-positive, intrahistiocytic bacilli that stained by immunohistochemistry for mycobacteria. Molecular testing by PCR and sequencing identified the causative agent as *Mycobacterium genavense*, which is an unusual presentation of infection in a horse.

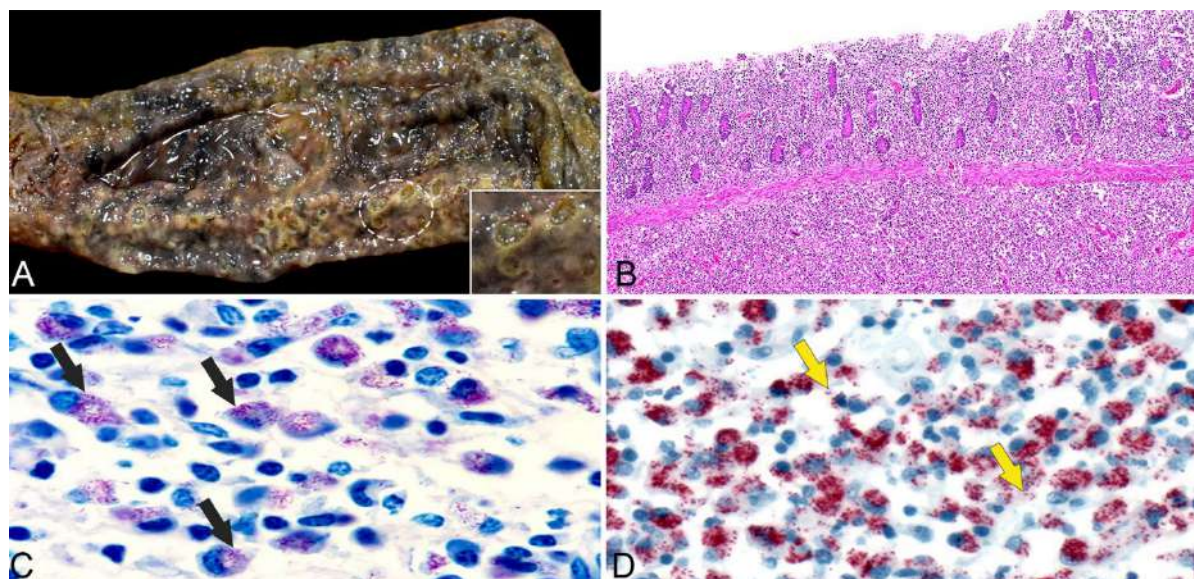


Figure 1. Ulcerative and granulomatous typhlocolitis caused by *Mycobacterium genavense* in an adult Quarter Horse gelding. **A.** The mucosa of the large colon has irregular dark-purple to tan mottling with several circular-to-oval, crateriform ulcers (white dashed ellipse. Inset: amplified demarcation of ulcers. **B.** Photomicrograph of large intestine with dense sheets of granulomatous inflammation partially obliterating the mucosa and submucosa. H&E. **C.** Epithelioid macrophages within the inflamed colonic wall contain myriad intracytoplasmic acid-fast bacilli, highlighted in magenta (arrows). Fite acid-fast stain. 100x. **D.** Copious robust red immunostaining of intrahistiocytic *Mycobacterium* bacilli (arrows). *Mycobacterium* spp. immunohistochemistry.

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.

EXPERT'S CORNER



Dr. Roy Pool

A PERSONAL JOURNEY

OF DISCOVERY OF THE ROLE OF OXYGEN TENSION, BONE REMODELING UNITS, AND MESENCHYMAL STEM CELLS IN ORTHOPEDIC DISORDERS, REPAIR AND BONE TUMORS INITIATED AFTER A TORN MEDIAL MENISCUS OF THE LEFT KNEE TERMINATED MY COLLEGIATE BASKETBALL CAREER.



click here to read



DIAGNOSTIC EXERCISE



Case #: 236 ; **Month:** May; **Year:** 2024

Contributors: Alyssa R. LeComte¹, Randi Gold²

¹Texas A&M University, College Station, TX 77843, USA.

²Texas A&M Veterinary Medical Diagnostic Laboratory (TVMDL), Texas A&M University, College Station, TX 77843, USA.

Corresponding author: randi.gold@tvmdl.tamu.edu

Clinical History: A 1-year-old, female intact, mixed breed dog had eaten a live duck prior to the onset of chronic vomiting and hyporexia, which progressed to severe weight loss. Vomiting improved with the administration of antacids, gastrointestinal protectants, anti-emetics, antibiotics, and appetite stimulants. These clinical signs returned once medical management was stopped. Endoscopic gastrointestinal biopsies showed a lymphoplasmacytic gastritis and enteritis. As the dog continued to decline, an exploratory laparotomy was done, revealing a severely enlarged, firm stomach that bled when touched. No gastrointestinal foreign body was found. The patient was humanely euthanatized.

Gross Findings: The dog was in poor body condition. A 13 cm surgical scar from the laparotomy was over ventral midline. The greater omentum was adhered to multiple sections of the gastrointestinal tract. The stomach was markedly enlarged, thick, firm, and discolored red, brown, to gray (Fig. 1). On the cut section, the gastric walls were thickened up to 2.75 cm. The thick and discolored areas encompassed parts of the cardia, the entire fundus, and pyloric antrum. Within the lumen was a red to brown fluid that contained mucoid material. Samples of stomach were submitted for histopathology.

Follow-up questions (see images in next page):

- *Histological description?*
- *Additional histochemical stains?*
- *Morphologic diagnosis?*
- *Differential diagnoses?*



DIAGNOSTIC EXERCISE



Gross and Histological Images:



Figure 1.

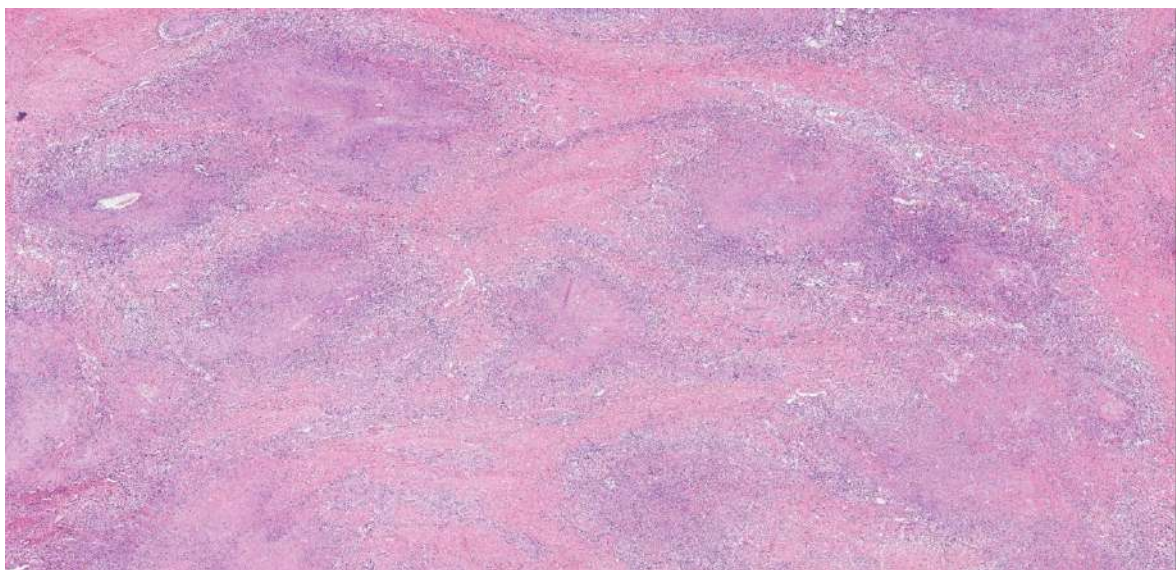


Figure 2: H&E



DIAGNOSTIC EXERCISE

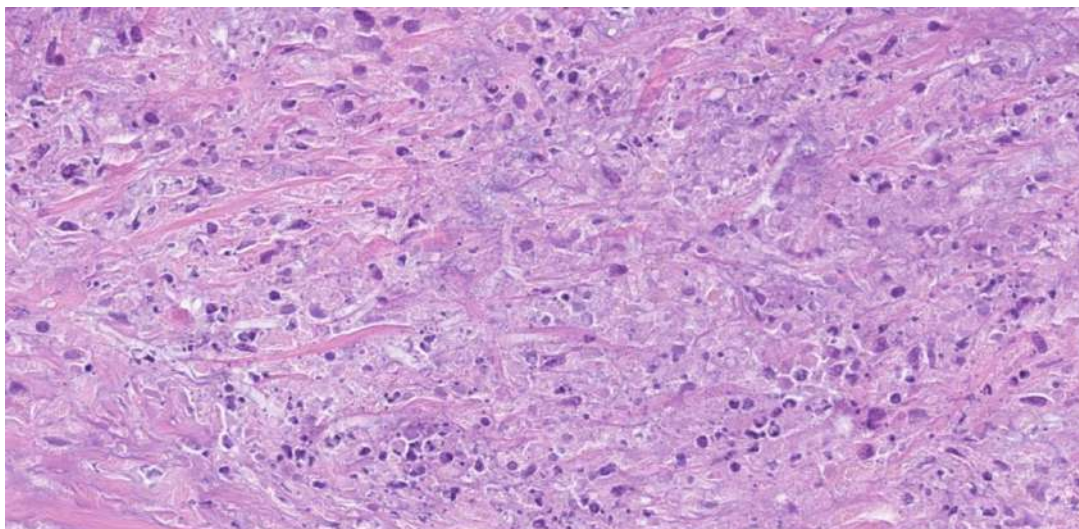


Figure 3: H&E

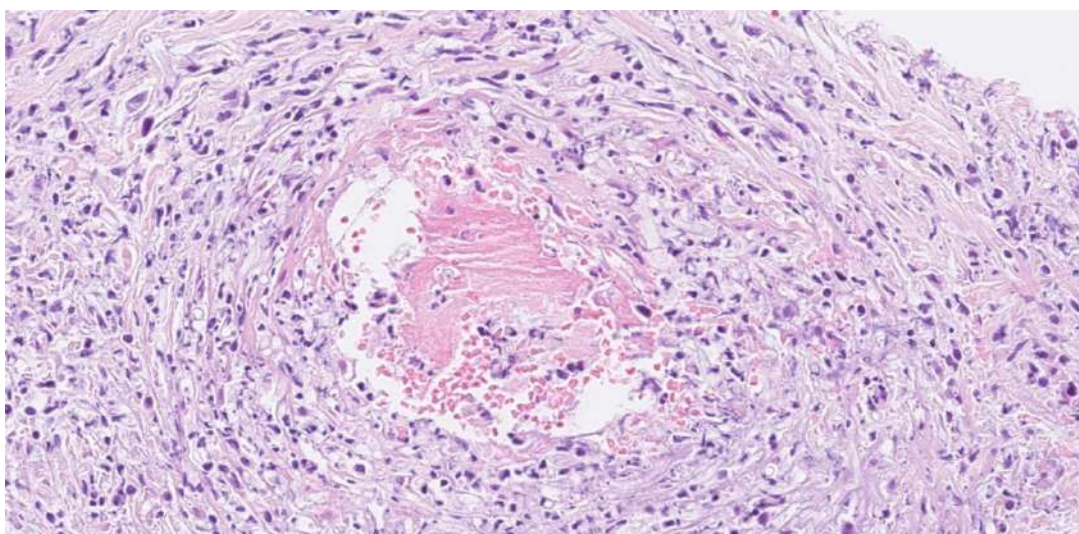


Figure 4. H&E

[Click here for answers](#)

The Diagnostic Exercises are an initiative of the Latin Comparative Pathology Group (LCPG), the Latin American subdivision of The Davis-Thompson Foundation (DTF). 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 DTF website (<https://davisthompsonfoundation.org/diagnostic-exercise/>)

Associate Editor for this Diagnostic Exercise: Raquel Rech
Editor-in-chief: Claudio Barros

SEMINAR REVIEWS

The 41st West Coast Veterinary Pathology Conference

By Dr Kevin Keel

The 41st West Coast Veterinary Pathology Conference (WCVPC) was held on May 3 and 4 at UC Davis. For the first time in many years, Davis-Thompson Foundation has joined forces with the organizers of the WCVPC in a partnership that offers significant improvements to the meeting. The organizing committee was composed of Drs Kevin Keel, Jose Vilches Moure, Noel Dybdal and Chrissy Eckstrand. The impeccable organization was supported by a group of enthusiastic students that performed myriad activities, including arranging the food for breaks, ordering lunches, and scheduling the social. Noel Kingsley and Mieko Temple were key volunteers from the pathology club, who worked very hard to ensure refreshments and meals were provided. They also organized a larger group of enthusiastic veterinary students who assisted with everything from check-in to clean up.

There were a total of 69 attendees at the meeting. The topic this year was oral pathology. The program included 38 case presentations and two excellent keynote presentations from our invited speaker, Dr. Brian Murphy. Dr. Murphy's first presentation was Diagnostic Oral Pathology- Finding Order in Biology.



Dr. Murphy during one of his lectures

He discussed the paradigms that effective pathologists use to efficiently diagnose lesions, and the biases that we have to be wary of in our assessments. His second lecture, We Stand on Their Shoulders: Across Four Centuries of Veterinary Oral Pathology, included a review of the history of oral pathology. He discussed some of the earliest descriptions of oral lesions, and key figures in development of this field.

SEMINAR REVIEWS

Cases were presented by pathology residents, veterinary students, other trainees and faculty. Histopathology slides were provided as unknowns in advance of the meeting, so that attendees could review them and form an unbiased assessment of the lesions. Only the signalments were provided. At the beginning of the meeting a complete proceedings was provided which included a summary of each case with the authors gross findings, histopathology descriptions, diagnoses, and a discussion of the case and the disease it represented.

The dates and topic for the 42nd WCVPC have been secured. The meeting will be held on May 2 and 3, 2025 at UC Davis and the topic will be reproductive pathology. We already have two excellent invited speakers lined up, Justin Vidal from Chares River Labs and Dalen Agnew from Michigan State University. While the organizing committee and venue will remain the same, the Foundation will provide organizational support such as conference registration and access to proceedings and slides.



Group photo of participants

CLIC

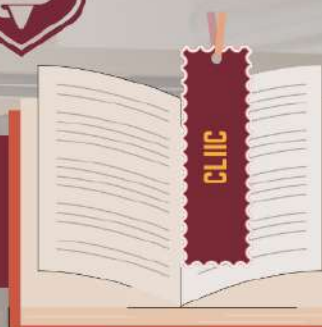
CURRENT LITERATURE AND IMAGE INTERPRETATION COURSE



Davis-Thompson
Foundation

JUNE 3-7, 2024

\$675 NON-MEMBERS / \$575 MEMBERS



**DENAE
LOBATO**

DVM, PHD, DACVP



**KIM
NEWKIRK**

DVM, PHD, DACVP



**MICHELLE
DENNIS**

DVM, PHD, DACVP



**LINDEN
CRAIG**

DVM, PHD, DACVP



**WESLEY
SHELEY**

DVM, PHD, DACVP



**SARAH
LINN-PEIRANO**

DVM, PHD, DACVP

IN-PERSON @



THE UNIVERSITY OF
TENNESSEE
KNOXVILLE

[Click here to register](#)

RONDAS DE HISTOPATOLOGIA



RONDAS DE
HISTOPATOLOGÍA DE LCPG



Davis-Thompson
Foundation

CASOS MISCELÁNEOS

INTERACTIVO



VIRTUAL

EN ESPAÑOL

Jueves 20 de Junio, 2024
10:00 AM - 11:00 AM CT

**Nuevo
horario**



Javier Asin
DVM, PhD, DECVP

[Click here to register](#)

SEMINAR SERIES IN SPANISH



Davis-Thompson
Foundation



**Seminar Series
in Spanish 2024**

**Jueves, 20 de Junio, 2024
11:00am-12:30pm CDT**

Fotografia macroscopica en la sala de necropsias



**Lluís Lujan,
DVM, PhD, Dipl. ECVF**

[Click here to register](#)

EQUINE ENTERIC DISEASES



Davis-Thompson
Foundation

FULL DAY SEMINAR

EQUINE ENTERIC DISEASES

TUESDAY 25 JUNE, 2024

9 AM- 4:30 PM CDT



FRANCISCO UZAL
DVM, MSC, PHD, DACVP



JULIE ENGILES
VMD, DACVP



6 RACE, 4 MOC



VIRTUAL



75 UDS

[Click here to register](#)

EUROPEAN DESCRIPTIVE COURSE



Davis-Thompson
Foundation

EUROPEAN DESCRIPTIVE VETERINARY PATHOLOGY COURSE

JUNE 25-29 2024



JEY KOEHLER

DVM, PHD, DACVP



LINDEN CRAIG

DVM, PHD, DACVP



PATTY PESAVENTO

DVM, PHD, DACVP



SCHOOL OF VETERINARY MEDICINE,
CEU UNIVERSIDAD CARDENAL HERRERA, VALENCIA, SPAIN



IN PERSON



[Click here to register](#)

JUST IN TIME MOCK EXAMS



Davis-Thompson
Foundation

July 15-16, 2024

JUST IN TIME MOCK EXAMS

* Francisco Uzal
DVM, MSc, PhD, DACVP



* Eileen Henderson
DVM, MS, CertAqv, DACVP



* Kevin Woolard
DVM, PhD, DACVP



* Denise Imai
DVM, PhD, DACVP



* Ingeborg Langohr
DVM, PhD, DACVP



* Anne Lewis
DVM, PhD, DACVP



* Javier Asin
DVM, PhD, DECVP



* Dalen Agnew
DVM, PhD, DACVP



* Leslie Woods
DVM, PhD, DACVP



Registration fee: \$ 250




Virtual




[Click here to register](#)


CLASS & POLA



Davis-Thompson
Foundation




Penn
UNIVERSITY of PENNSYLVANIA




CURRENT LAB ANIMAL SCIENCE SEMINAR (CLASS) & PATHOLOGY OF LAB ANIMALS (POLA) 2024

CLASS
JULY 20-21


POLA
JULY 22-26




Michael
Bencivenga




Cara Reiter




Laura
Anderson




Kelly
Jensen




Ingrid Bergin




Daniel
Finnegan




Heather
Tillman




Teresa
Southard




Amanda
Beck




Joe
Anderson




Richard
Lang




Daniel Bland




Angela Brice




Diana
Hoffman



in person



Hill Pavilion, UPenn. Philadelphia, PA



[Click here to register](#)

EUROPEAN SYMPOSIUM

EUROPEAN DIVISION OF
DAVIS THOMPSON
FOUNDATION

SYMPOSIUM ON DERMATOPATHOLOGY



**Charles
Bradley**
VMD, DACVP



**Verena
Affolter**
Dr.med.vet.,
DECVP, PhD

August 26–27, 2024

COST

399 € Early bird

450 € After 30 June



In person

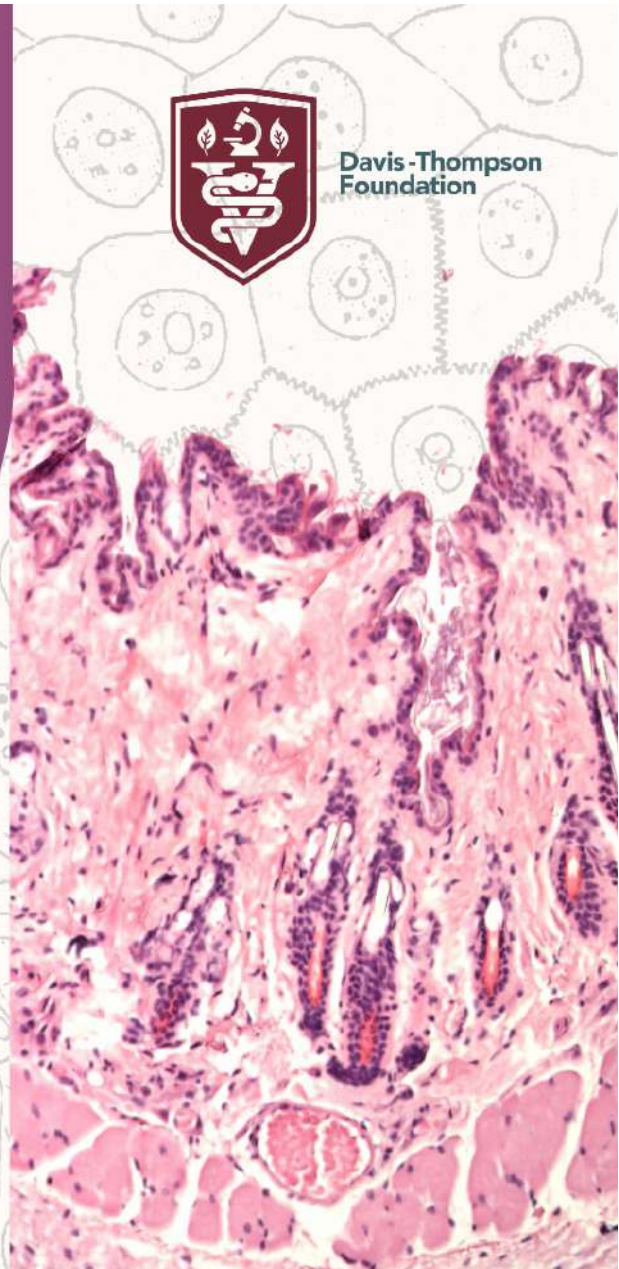


Exe Victoria Palace

San Lorenzo de El Escorial,
Spain



Davis-Thompson
Foundation



[Click here to register](#)

GHPN INFORMATION SESSIONS



Global Health Pathology Network (GHPN) Information Sessions



Have you heard of the GHPN?

The GHPN is an organization that operates under the umbrella of the Davis-Thompson Foundation and fosters engagement of veterinary pathologists in Global Health



This year, there will be information sessions about the GHPN at the ECVP/ESVP/ESTP and ACVP/ASVCP meetings



August 31, 2024

🕒 11:30 AM- 1:00 PM (CEST)

👤 In person

📍 San Lorenzo de El Escorial, Madrid, Spain

🔗 [Click here](#) for more information



Javier Asin
DVM, PhD, DECVP



More information coming soon



Speaker(s) for ACVP to be announced soon

RACEHORSE NECROPSY WORKSHOP



Davis-Thompson
Foundation



HORSERACING
INTEGRITY
AND SAFETY
AUTHORITY

RACEHORSE NECROPSY WORKSHOP

September 12-14, 2024



Dr. Francisco Uzal



Dr. Sue Stover



Dr. Jeff Blea



Dr. Alina Vale



Dr. Akinyi Nyaoke



Dr. Karen Hassan



Dr. Carlos Schild



Dr. Eileen Henderson



Dr. Javier Asin



Marta Aleman



Christina Garcia



Meredith Rhea



Heather Wolird



In-person



Free



CAHFS,
San Bernardino, CA

[Click here to register](#)

ZOO & WILDLIFE PATHOLOGY WORKSHOP



Davis-Thompson
Foundation

AAZV 31ST ANNUAL



ZOO & WILDLIFE PATHOLOGY WORKSHOP

22 SEPTEMBER 2024

KEYNOTE LECTURE- PARASITES OF FISH: WHAT ARE WE LOOKING AT, AND WHY DO THEY MATTER?



Sarah Poynton
BSc, PhD

Calling for cases that shed light on how parasitic diseases impact our zoo animals and wildlife.
Submit your case by **June 16** even if it doesn't directly relate to parasitic diseases



200 USD
Students: 100 USD



8 hours of CE



In-person



Toronto, Canada

[Click here to register](#)

INVERTEBRATE PATHOLOGY SEMINAR



Davis-Thompson
Foundation

BEYOND THE BACKBONE

SEPTEMBER 27, 2024



INVERTEBRATE PATHOLOGY DAY SEMINAR



KEYNOTE SPEAKER
MICHELLE DENNIS
DVM, PhD, DACVP



MODERATOR
ELISE LADOUCEUR
DVM, DACVP



5.5H RACE
PENDING APPROVAL



\$75
(NON-PRESENTERS)



VIRTUAL



10AM-5PM EST

[Click here to register](#)

SOUTHCENTRAL DIVISION MEETING



Davis-Thompson
Foundation

34TH ANNUAL SOUTHCENTRAL DIVISION MEETING

CASE PRESENTATIONS AND KEYNOTE SPEAKER

BONE PATHOLOGY



OCTOBER 4-5, 2024



SUBMIT CASES BY SPT 4



HYBRID



\$ 50 - 200



**TEXAS A&M UNIVERSITY
AT GALVESTON**



LINDEN CRAIG
DVM, PHD, DACVP

[Click here to register](#)

AAVLD 2024 PRE-MEETING WORKSHOP



Davis-Thompson
Foundation



FRIDAY, OCT 11

2024 AAVLD ANNUAL MEETING
DAVIS-THOMPSON PRE-MEETING WORKSHOP:

**DERMATOPATHOLOGY - MORE
THAN SKINNY LAYERS**



Aline Rodrigues Hoffmann
DVM, MS, PhD, DACVP

**SAVE
THE DATE**



Dominique J. Wiener
DVM, PhD, DECVP



7.5hrs RACE



In person



**GAYLORD OPRYLAND RESORT &
CONVENTION CENTER.
NASHVILLE, TENNESSEE**

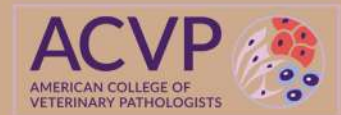
[Click here to register](#)

ACVP 2024 PRE-MEETING WORKSHOP



Davis-Thompson
Foundation

NO GUTS NO GLORY



A review of gastrointestinal tumors

NOVEMBER 16, 2024

🕒 8AM- 5PM



Francisco Uzal
DVM, MSc, PhD, DACVP



John Munday
BVSc, PhD, DSc, DACVP



Jesse Hostetter
DVM, PhD, DACVP



Brandon Plattner
DVM, PhD, DACVP



6.5hrs RACE,
pending



In person



SEATTLE, WA

[Click here to register](#)

EUROPOLA



 Davis-Thompson Foundation

 COMPATH
one medicine, one pathology,
one platform.

 ^b
UNIVERSITÄT
BERN

SAVE THE DATE



EuropOLA 2024

PATHOLOGY OF LAB ANIMALS

 OCT 28 - NOV 1

 in person

University of Bern,
BERN SWITZERLAND 

[Click here to register](#)

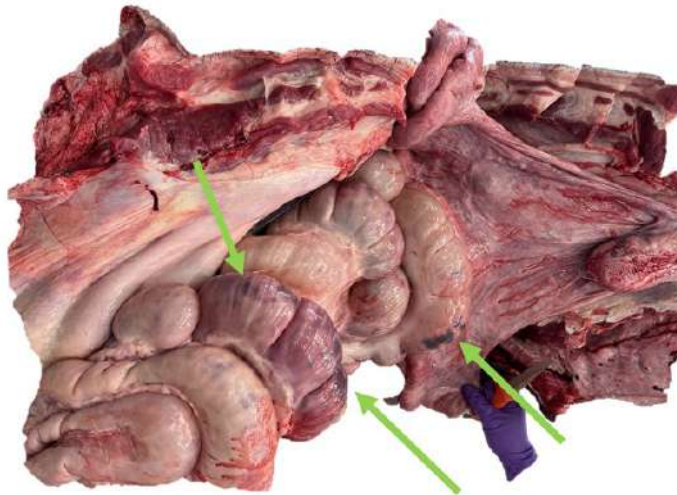
WESTERN ROUND ROBIN CASE

CONTRIBUTING LABORATORY:

California Animal Health and Food Safety Lab - Tulare Branch

History: Expected to farrow this week but had no heart beat per ultrasound on piglets and was found dead the next day.

Gross findings: The abdominal cavity had brown-tan fluid and multiple fibrin clots and tags overlying the liver and intestines. The cecum and colonic wall had multiple areas of hemorrhage and the mucosa in this region had areas of ulceration. The colonic content was brown to red. The uterus was empty and involuting.



Histology:

Colon: Segmentally the superficial third of the mucosa either lacks differential staining (coagulative necrosis) or is composed of hypereosinophilic outlines of the architecture and is admixed with necrotic cellular debris and moderate to extensive amounts of hemorrhage, fibrin, and edema. Occasionally overlying the surface is a thin pseudomembrane of fibrin with enmeshed cellular and karyorrhectic debris, degenerate neutrophils, and bacterial colonies that are thin, 0.5 μm wide, variably elongate, occasionally spiral, and are Gram negative. Numerous Gram-positive bacilli that occasionally sporulate are admixed (clostridial overgrowth). The coagulative necrosis extends into the crypts and some remaining crypts are lined by necrotic cellular debris admixed with bacteria. Crypts are occasionally hyperplastic (elongation 2-3x normal) and are often ectatic and lined by increased numbers of goblet cells (goblet cells hyperplasia), are multifocally ectatic, containing amphophilic to pale basophilic material (mucus)

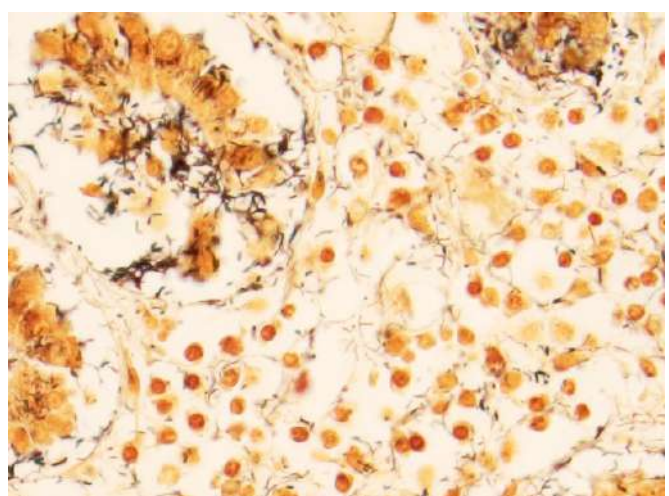
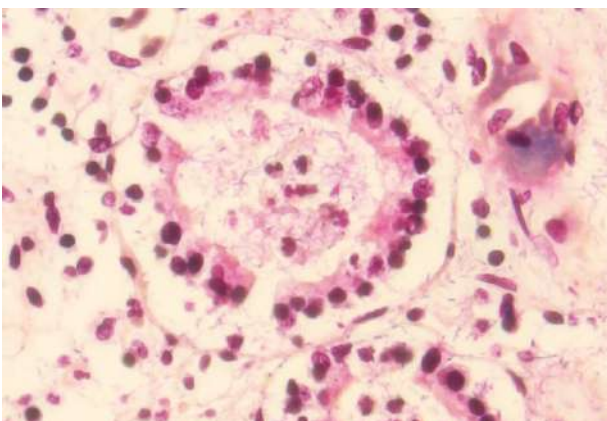
WESTERN ROUND ROBIN CASE

and/or have neutrophils and necrotic cellular debris (crypt abscess). Small caliber lamina propria and submucosal blood vessels occasionally are occluded by fibrillar to hyalinized eosinophilic material (fibrin thrombi). Remaining blood vessels are moderately to markedly congested. In less affected regions there is epithelial erosion and necrosis of the superficial mucosa. Diffusely there is transmural edema.

Morphologic diagnosis(es): Colitis, necrohemorrhagic with intralesional spirochetes

Etiologic diagnosis: Swine dysentery (*B. hyodysenteriae*, *B. hampsonii*, and *B. su-anatina*)

Discussion: All ages of pigs are susceptible, although it is uncommon in pigs less than 3 weeks of age and most common in pigs 8-14 weeks of age. Usually the herd is exposed by addition of an asymptomatic carrier pig. Although pathogenesis is not completely understood, *Brachyspira hyodysenteriae* is the most researched swine dysentery pathogen and clinical signs typically develop 5-21 days after ingestion. Gross lesions are typically restricted to the cecum and spiral colon. Clinical signs: Anorexia (off-feed), pyrexia, diarrhea (mucoïd +/- fibrin, bloody)



Gram stain (left), Steiner's Silver stain (right)

[Click here to see this slide in Noah's slidebox](#)

Contributor: Dr Jennine Ochoa DVM, PhD, DACVP

WESTERN ROUND ROBIN CASE

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.

We are organizing the next round of submissions for this slide conference. If your laboratory is interested in participating, please contact Javier Asin (jasinros@ucdavis.edu) for details.



NOAH'S SLIDEBOX

BSTP CORNER

BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

Notice of Future Meetings



Virtual Continuing Education Symposium 9: Digestive System
20th – 29th February 2024
Tuesday, Wednesday and Thursday
13.00 – 17.00 (GMT+0, London/UCT+0/ET-5)

CES 9 will be held over two weeks - on the afternoons of Tuesday 20th, Wednesday 21st, Thursday 22nd, Tuesday 27th, Wednesday 28th and Thursday 29th February 2024, from 13.00 – 17.00 (GMT+0, London/UCT+0) each day.

REGISTRATION IS NOW OPEN WITH AN EARLY BIRD DEADLINE OF FRIDAY 26th JANUARY 2024

This CES will give you the opportunity to have an overview of the normal anatomy and physiology of the digestive system; repair and regeneration mechanisms; spontaneous lesions of the rodent, rabbit, and non-human primate GI tract; toxicology and carcinogenesis of the exocrine pancreas; health monitoring of laboratory rodent colonies; pathology of infectious GI diseases of rodents, rabbits and non-human primates; anatomy, physiology, histology and pathology of the teeth. Other topics to be covered include spontaneous pathology and infectious disease in the canine and minipig digestive system; rodent models of inflammatory bowel disease; from biomarkers to AI; bioaccumulation of therapeutic drugs.

Reduced fee funding opportunities are also available for trainee/early career pathologists as well as a number of free registration bursary places.

If you would like further information, have any queries, or would like to reserve a place, please contact the Hg3 Conferences Ltd - events@hg3.co.uk

This symposium will be organised by Hg3 Conferences Ltd, who have been appointed by the Council of the BSTP to take over the administrative organisation of all BSTP events – events@hg3.co.uk

or visit: <https://www.bstp.org.uk/events/ces-9-digestive-system/>

Virtual Continuing Education Symposium 10: Urinary System
9th – 18th July 2024
Tuesday, Wednesday and Thursday
13.00 – 17.00 (GMT+1, London/UCT+1)

CES 10 will be held over two weeks – on the afternoons of Tuesday 9th, Wednesday 10th, Thursday 11th, Tuesday 16th, Wednesday 17th and Thursday 18th July 2024, from 13.00 – 17.00 (GMT+1, London/UCT+1) each day.

This CES will give you the opportunity to learn about the urinary system. There will also be roundtable/share knowledge discussions and questions.

Updated information about this symposium will be posted on the BSTP website and BSTP group LinkedIn pages as it becomes available.

If you would like further information, have any queries or would like to reserve a place, please contact the Hg3 Conferences Ltd - events@hg3.co.uk

This symposium will be organised by Hg3 Conferences Ltd, who have been appointed by the Council of the BSTP to take over the administrative organisation of all BSTP events – events@hg3.co.uk

or visit: <https://www.bstp.org.uk/events/ces-10-urinary-system/>

For registration and more information about the events, visit the BSTP website:
<https://www.bstp.org.uk/events/bstp-events/>

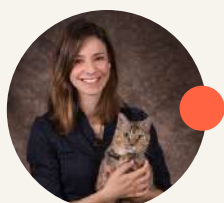
ASVP CORNER

2024

ASVP & DTF SCIENTIFIC CONFERENCE THE URINARY SYSTEM

We are delighted to invite you to attend the ASVP & Davis-Thompson Foundation 2024 Scientific Conference at the Hotel Grand Chancellor, Adelaide, on 13-15 September 2024.

This year's theme is the Urinary System and we are excited to announce the engagement of high-calibre international and national speakers that cover the specialities of internal medicine, clinical pathology and anatomical pathology.



**MARY
NABITY**

Keynote Speaker
Associate Professor
Texas A&M University



**RACHEL
CIANCIOLO**

Keynote Speaker
Anatomic Pathologist
Zoetis Inc.



**MARY
THOMPSON**

Keynote Speaker
Associate Professor in Small Animal
Medicine, The University of Sydney

Visit www.asvp.asn.au for further details including the full line up of speakers, program, social events, and registration.

What's on offer?

- an outstanding scientific program
- a diversity of delegates
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- happy hour with our expert panel
- social dinner with colleagues
- networking over 3 days of the program
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13-15 SEPTEMBER, 2024

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IDEXX CASECONNEX CORNER

Signalment: 5-year-old, female, spayed Bulldog

Source/ History: Patient presented to surgical referral center for cholecystectomy following rupture of suspected gallbladder mucocele.

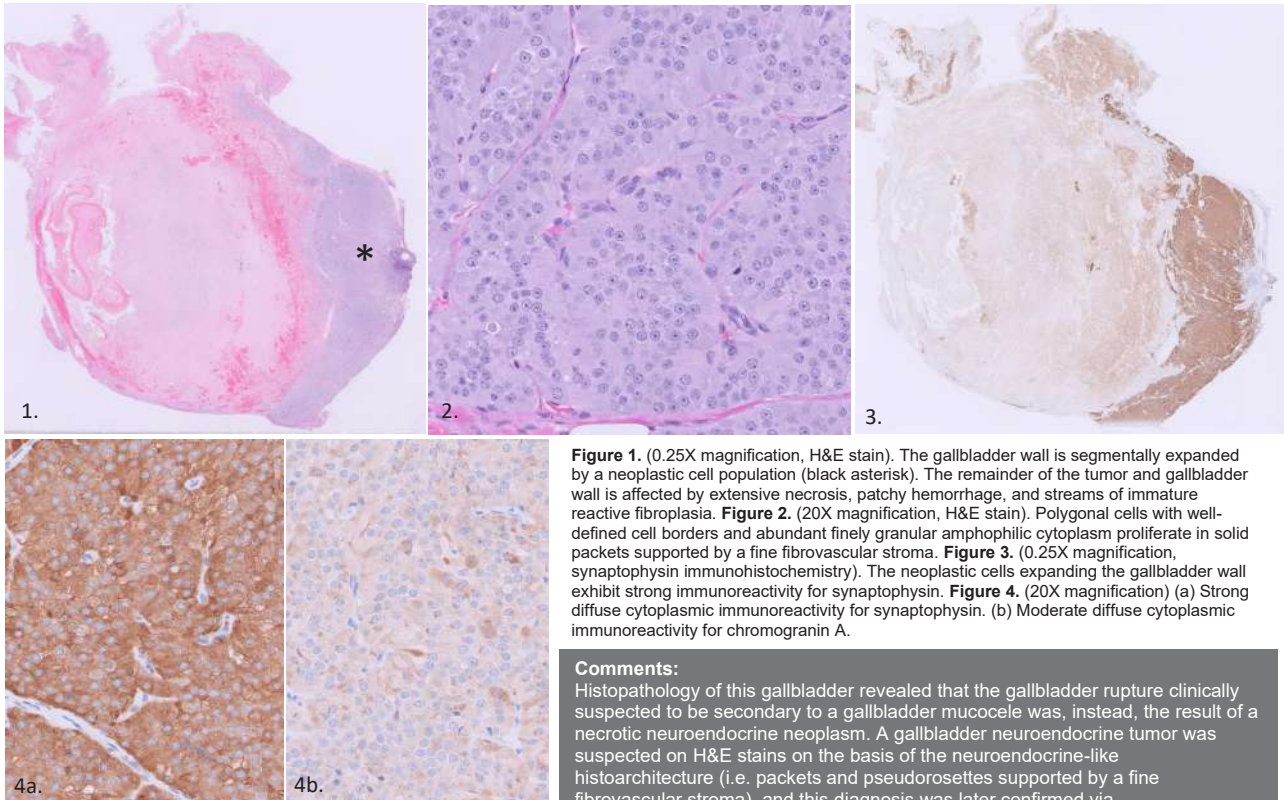


Figure 1. (0.25X magnification, H&E stain). The gallbladder wall is segmentally expanded by a neoplastic cell population (black asterisk). The remainder of the tumor and gallbladder wall is affected by extensive necrosis, patchy hemorrhage, and streams of immature reactive fibroplasia. **Figure 2.** (20X magnification, H&E stain). Polygonal cells with well-defined cell borders and abundant finely granular amphophilic cytoplasm proliferate in solid packets supported by a fine fibrovascular stroma. **Figure 3.** (0.25X magnification, synaptophysin immunohistochemistry). The neoplastic cells expanding the gallbladder wall exhibit strong immunoreactivity for synaptophysin. **Figure 4.** (20X magnification) (a) Strong diffuse cytoplasmic immunoreactivity for synaptophysin. (b) Moderate diffuse cytoplasmic immunoreactivity for chromogranin A.

Comments:

Histopathology of this gallbladder revealed that the gallbladder rupture clinically suspected to be secondary to a gallbladder mucocele was, instead, the result of a necrotic neuroendocrine neoplasm. A gallbladder neuroendocrine tumor was suspected on H&E stains on the basis of the neuroendocrine-like histoarchitecture (i.e. packets and pseudorosettes supported by a fine fibrovascular stroma), and this diagnosis was later confirmed via immunohistochemistry which revealed diffuse and strong immunoreactivity for synaptophysin and moderate immunoreactivity for chromogranin A. While clinical correlation is necessary to rule out the possibility of a metastatic neuroendocrine tumor arising elsewhere in the body, these findings are considered strongly supportive of a primary gallbladder neuroendocrine carcinoma.

In a recent case series investigating primary gallbladder neuroendocrine carcinomas in 13 dogs, a suspected breed predilection for Boston Terriers was identified with the cohort consisting of 6 Boston Terriers, 2 Bichon Frise, 1 Poodle, 1 English Bulldog, 1 French Bulldog, and 2 mixed-breed dogs. In this cohort, the most common presenting signs were emesis and elevated liver enzymes. Along with positive immunoreactivity for synaptophysin and chromogranin A, these tumors were also frequently positive for gastrin. Of the patients who died during the course of this study, the median survival time was 3.7 years, with 5 of the 8 deaths being directly attributed to neoplastic disease. Metastasis was detected in 6 of 13 cases with the liver (n=4) and lung (n=2) being the most common sites of metastasis. Cholecystectomy appeared to be curative in the remainder of cases (O'Brien et al., 2021).

O'Brien, K. M., Bankoff, B. J., Rosenstein, P. K., Clendaniel, D. C., Sánchez, M. D., & Durham, A. C. (2021). Clinical, histopathologic, and immunohistochemical features of 13 cases of canine gallbladder neuroendocrine carcinoma. *Journal of veterinary diagnostic investigation : official publication of the American Association of Veterinary Laboratory Diagnosticians, Inc.*, 33(2), 294–299.

Histopathologic Description:

Gallbladder: The gallbladder wall is segmentally expanded by a poorly circumscribed, mildly infiltrative, extensively necrotic, densely cellular proliferation of epithelial cells. These cells are arranged in solid packets supported by a fine fibrovascular stroma and neoplastic cells can occasionally be observed palisading around blood vessels in a pseudorosette-like pattern. The neoplastic cells are tightly cohesive and round to polygonal with distinct cell borders, abundant finely granular amphophilic cytoplasm, and a uniform round to oval nucleus which contains coarsely stippled to clumped chromatin and a single, distinct, basophilic nucleolus. There is up to 2-fold anisocytosis and anisokaryosis, and 1 mitotic figure is counted in 2.37 mm². There is extensive intratumoral coagulative necrosis, and there is widespread full thickness necrosis of the surrounding gallbladder wall. The necrotic tumor and surrounding gallbladder tissue is interspersed with regions of patchy to confluent hemorrhage and haphazard streams of immature fibroplasia.

Interpretation:

Gallbladder: Gallbladder neuroendocrine carcinoma

Case by
Luke Haydock, BVSc (Dist.), DVSc, DACVP

IDEXX

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LCPG CORNER

2024 DTF-LCPG ACTIVITIES IN LATIN AMERICA

Country	Name of Seminar	Dates	Place/University	Speakers	Organizers
Argentina	XVIII Seminar of the Argentinean Subdivision of the Davis-Thompson Foundation and XII Forum on Teaching Veterinary Pathology.	Aug 22-23	Rosario, Argentina. Facultad de Ciencias Veterinarias, Universidad Nacional de Rosario	Francisco Uzal, Fabio Vanucci, Pablo Piñeyro, Luary Carolina Martinez Chavarria	Leonardo Minatel
	Latin American roadshow: Gastrointestinal pathology	Oct 24-25	Buenos Aires, Argentina. Universidad de Buenos Aires.	Francisco Uzal	Leonado Minatel
Brazil	2024 Brazilian Symposium of the DTF - Pathology of zoo and wildlife	Sept 20-22	Universidade Federal de Minas Gerais - Belo Horizonte, MG, Brazil	Denise McAloose	Renato de Lima Santos / Ayisa Rodrigues de Oliveira
Chile	Pathology of wildlife	August 8-9	Valdivia, Chile. Universidad Austral de Chile	Mauricio Seguel, Enrique Paredes, Mauricio Navarro, Manuel Moroni.	Mauricio Navarro
Colombia	Latin American roadshow: Gastrointestinal pathology	Nov 1-2	Barranquilla, Colombia. Universidad San Martin	Francisco Uzal	Paola Barato
Costa Rica	Workshop in freshwater fish medicine and pathology in Latin America	Mar 22-23	San Jose, Costa Rica. Escuela de medicina y cirugia veterinaria San Francisco de Asis	Esteban Soto, Paola Barato	Roberto Olivares
Guatemala	Latin American roadshow: Gastrointestinal pathology	Nov 4-5	Ciudad de Guatemala, Guatemala. Universidad de San Carlos.	Francisco Uzal	Deborah Rodriguez
México	IV on-line necropsy course	Apr 8-19	México (On-line)	Elizabeth Rodriguez, Maria del Carmen Carmona, Alfredo Perez, Mario Bedolla, Carlos Gonzalez, Elizabeth Morales, Gerardo Salas, Mireya Juarez, Luis Garcia-Marquez, Diana Galvan, Ruben Lopez, Laura Romero, Francisco Carvallo.	Ruben Lopez
	V seminar of the Mexican subdivision of the Davis-Thompson Foundation	Sept TBD	Tamaulipas, México. Universidad Autónoma de Tamaulipas	TBD	Ubicelio Martin
	Workshop in freshwater fish medicine and pathology in Latin America	Nov 21-22	Faculta de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de Mexico.	Esteban Soto, Paola Barato	Ruben Lopez
Paraguay	Latin American roadshow: Gastrointestinal pathology	Oct 28-29	Asunción, Paraguay. Universidad Nacional de Asunción.	Francisco Uzal	Leila Maidana, Mirtha Suarez
Uruguay	Latin American roadshow: Gastrointestinal pathology	Oct 21-22	Montevideo, Uruguay. Universidad de la Republica.	Francisco Uzal	Jose Manuel Verdes
Venezuela	II Seminar of the Venezuelan Subdivision of the Davis-Thompson Foundation	Jul 18-19	Barquisimeto, Venezuela	Francisco Uzal, Joaquín Ortega, Yaritza Salas	Yaritza Salas

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LCPG DIAGNOSTIC CASES SEMINAR

Members of the LCPG are invited to present a diagnostic case in their own language (English, Spanish or Portuguese). Everyone else gets to enjoy and learn!

Priority will be given to veterinary pathology trainees.



JUNE 11, 2024



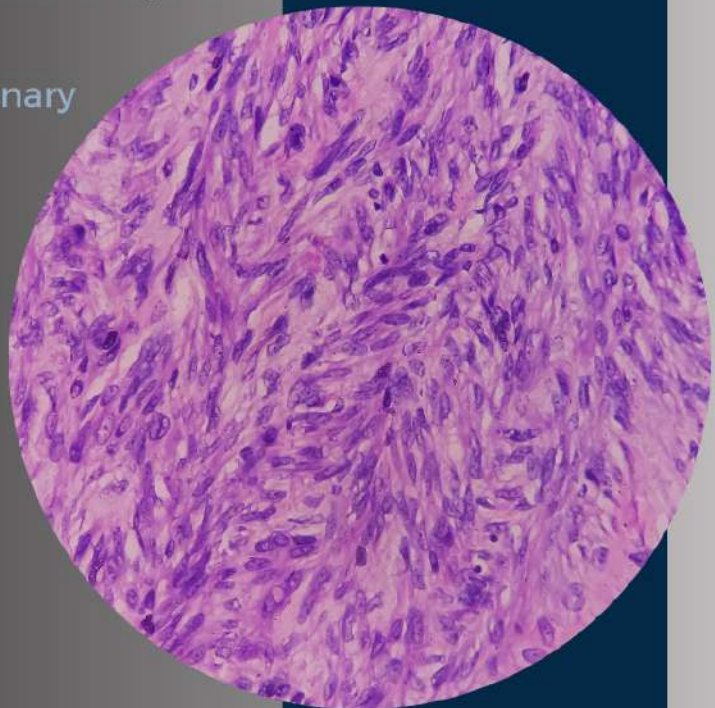
VIRTUAL



11-12:30 PM CT



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Seminar Series in Spanish 2024



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



Neoplasias de mastocitos
Valeria Grieco, DVM, PhD



Fotografia macroscopica en la sala de necropsias
Lluís Lujan, DVM, PhD, Dipl. ECVF



**Patologia forense veterinaria:
Generalidades y el caso de la asfixia**
Carlos Gonzalez, MV, MPhil, PhD



Sarcomas de tejidos blandos: del patólogo al oncólogo
Federico Cifuentes, MV, MSc, DrCs, DACVP
Rodrigo Crossley, MV, MS



Casos interactivos de dermatopatología
Joaquin Ortega, DVM, PhD, DACVP

Click here to register
for individual seminars

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RONDAS DE HISTOPATOLOGÍA DEL LCPG 2024 10:30 - 11:30 CT



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Doenças de pele
Cesar Menk, DVM, DACVP
em Português



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



Histopatologia ocular
Ingeborg Langohr, DVM, PhD, DACVP
em Português



Casos misceláneos
Federico Giannitti, DVM, PhD, DACVP
en español



Casos variados de animais de dermatopatología
Rachel Neto DVM, MS, DACVP
em Português



Casos misceláneos
Javier Asin, DVM, PhD, DECVP
en español

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2do SEMINARIO VENEZOLANO

DE LA FUNDACION DAVIS-THOMPSON
Y EL GRUPO LATINO DE PATOLOGIA
COMPARADA



**Yaritza
J. Salas A.**



**Francisco
Uzal**



**Joaquin
Ortega**



18-19 de Julio
2024, 9-5 pm



Barquisimeto,
Venezuela



En persona



EL TUNAL.

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XVIII SEMINARIO ARGENTINO DE LA FUNDACIÓN DAVIS THOMPSON Y XII FORO DE ENSEÑANZA DE LA PATOLOGÍA VETERINARIA 2024



22 Y 23 DE AGOSTO, 2024



FRANCISCO A. UZAL
DVM, MSc, PhD, DACVP



**LUARY CAROLINA
MARTÍNEZ CHAVARRÍA**
MVZ, MSc, DSc



FABIO VANNUCCI
DVM, MSc, PhD



PABLO PIÑEYRO
DVM, MVSc, DVSc, PhD




en persona




Facultad de Ciencias Veterinarias (UNR)
Casilda, Argentina.


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 Davis-Thompson Foundation


XV Brazilian Symposium of the Davis-Thompson Foundation


 September 20-22, 2024

 **WILD LIFE**

 **CONSERVATION**

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 Universidade Federal de Minas Gerais


Denise McAloose
VMD, DACVP

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LATIN AMERICAN ROAD SHOW

2024

Patologia del sistema digestivo

Francisco A. Uzal
DVM, MSc, PhD, DACVP

→ Arrivals

FECHA	DESTINO	ESTATUS
OCT 21-22	URUGUAY	EN PERSONA
OCT 24-25	ARGENTINA	EN PERSONA
OCT 28-29	PARAGUAY	EN PERSONA
NOV 1-2	COLOMBIA	EN PERSONA
NOV 4-5	GUATEMALA	EN PERSONA

Click in the following links to register to individual seminars

URUGUAY

ARGENTINA

PARAGUAY

COLOMBIA

GUATEMALA

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- Provides Diagnostic Exercises
- Offers travel awards
- Coordinates externships in US labs for Latin Americans
- Organizes and lectures in Latin American seminars and courses

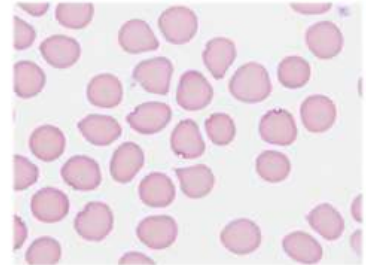
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MISCELLANEOUS ANNOUNCEMENTS

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](#)



*Figure 1. Tissue from a mouse. The **tunica media of medium-sized arteries** is thickened by concentric rings of excessive smooth muscle that is characteristic of **hypertensive arteriosclerosis****

*This is a **hypothetical example** of a pathology error which **misdiagnoses** a normal microanatomic/histologic structure (**mouse ureter**) as a lesion. Errors, omissions, or "false claims" in pathology data such as this are becoming **increasingly common in scientific journals**, especially those that **do not routinely include pathologists** in their peer review process. The ACVP Advocacy and Policy Committee and Board of Directors have therefore developed a [web submission portal](#) that will allow professionals with advanced pathology training to report concerns on substantive errors in publications.

We need your help!

When you come across a pathology error published in a scientific journal, please take 5-10 minutes to fill out the anonymous survey on the [ACVP Errors in Publication web submission portal](#). The information gathered from submissions to this web portal will be collated and used to compile the data needed to develop and promote publication standards and review procedures to improve the accuracy of published pathology data. Any data obtained will be maintained strictly in **anonymous** form and will greatly benefit the advancement of this initiative.

Image reprinted under fair use authorization from: Treuting, P.M., Dintzis, S. and Montine, K.S. eds., 2017. *Comparative anatomy and histology: a mouse, rat, and human atlas*. Academic Press.

MISCELLANEOUS ANNOUNCEMENTS

vetdermboston.com



Celebrate WCVD's 25th Anniversary

Welcome to the 10th World Congress of Veterinary Dermatology

July 25-29, 2024 | Boston, Massachusetts, USA

In person +30 hours of virtual content!

6 Themes

- Atopic Disease and Allergy
- Dermatology and One Health
- Immunodermatology
- Innovations in Dermatology
- Otology
- Skin Biology in Health and Disease



MISCELLANEOUS ANNOUNCEMENTS



21st Workshop on the Pathology of Mouse Models for Human Disease

September 9-13, 2024



St. Jude Children's Research Hospital, Memphis, TN
Marlo Thomas Center for Global Education and Collaboration





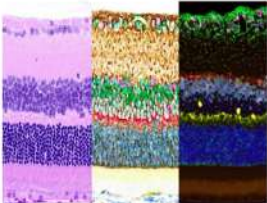
Registration: \$750 before June 30; \$1000 after June 30
Trainee registration: \$500 before June 30; \$750 after June 30
Virtual Course Registration: \$200 before June 30; \$300 after June 30

Registration now open

Click here

Topics Include:

- Resources for morphologic phenotyping & correlating with human diseases
- Mouse models of human cancer
- Models of inflammation and infectious disease
- Mouse models of neurological disease
- Advanced methods in research pathology





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CICLO DE PALESTRAS EM PATOLOGIA VETERINÁRIA: AJUDANDO O RS








MISCELLANEOUS ANNOUNCEMENTS

NEW MANUALS FOR CLINICIANS AND PATHOLOGISTS

Investigating Equine Abortion and Reproductive Loss

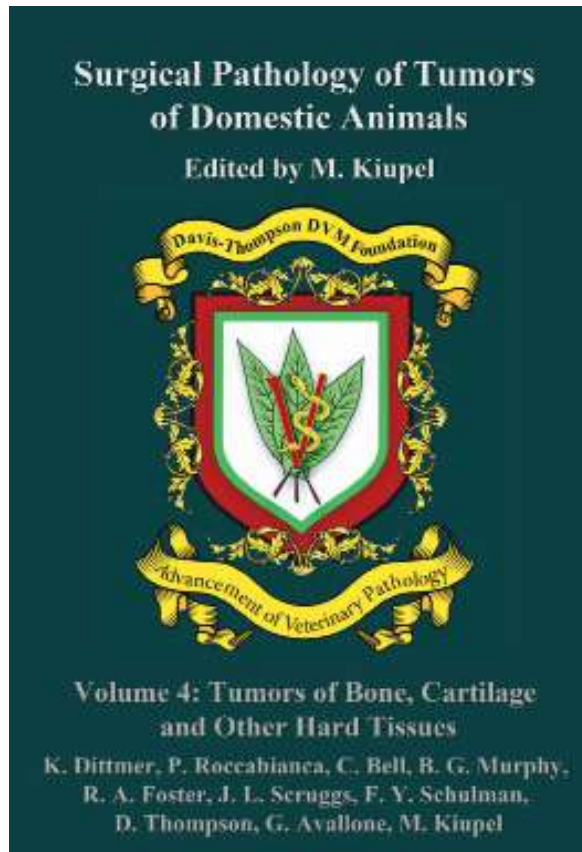


A multidisciplinary team of equine clinicians, epidemiologists and pathologists in Australia create 2 atlas of Histopathology and Gross Pathology of equine reproductive loss.

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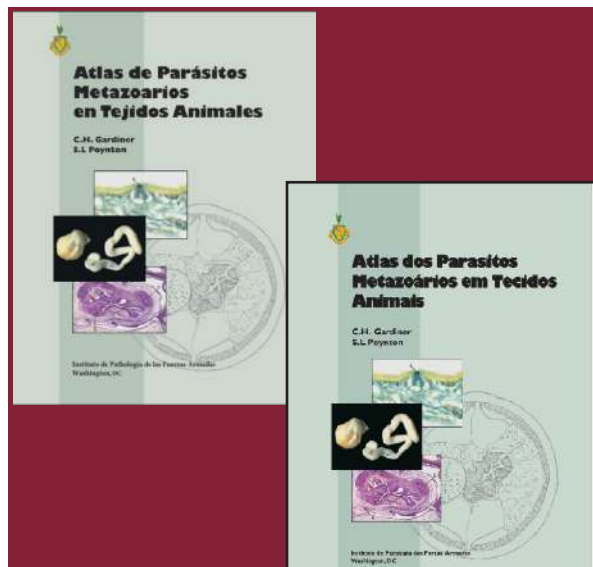
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Have slides left over from your recent slide seminar? Just looking to free up some storage space? The Foundation is looking for additional glass slides, kodachromes and other similar materials for its Correspondence Division and Study Centers. All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



Atlas De Parasitos Metazoarios En Tejidos Animales and Atlas dos parasitos metazoários em tecidos animais - [Click Here](#) to Get a Digital Download!



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JUNE 2024