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**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

November 2022

VOL. 52



INSIDE THIS ISSUE

Monthly cover photograph winner: Laura K Bryan

Institution: Department of Veterinary Pathobiology. College of Veterinary Medicine & Biomedical Sciences

Texas A&M University

Haemonchus contortus adult recovered from the abomasum of a 1-year-old, Hampshire Down wether that presented for anemia and acute neurologic clinical signs. The coiled uteri and vulvar flap indicated that it is a female (unstained, 5X). intoxication with *Solanum fastigiatum*.

- | | | | |
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MESSAGE FROM THE CEO

Dear Colleagues

Welcome to the November issue of the Davis Thompson Foundation's Newsletter, with our heartfelt thanks to our outstanding Managing Editors, Jeann Leal and Javier Asin.

As you peruse these pages, I hope you are as impressed as we are with the quantity and quality of the training activities that are the hallmark of your Foundation's mission. To highlight just a few, in October we kicked off with an outstanding full day of neuropathology during the DTF-AAVLD pre-meeting workshop in Minneapolis, given by Drs Raquel Rech, Kevin Woolard and Andrew Miller, and attended by a great crowd both in the room and virtually. Then, the first Foundation's Latin American Roadshow brought one of the greats of world pathology, Dr Alfonso Lopez, to Uruguay, Argentina, Paraguay and Colombia, where for two weeks he shared his enormous knowledge and experience with more than 300 colleagues and students. This is a new initiative of the Foundation, and it will be repeated annually, bringing some of the best pathologists of the world to Latin America.

November is also full of great training opportunities, including the full-day DTF-ACVP Pre-Meeting Workshop in Boston, on Tumors of bone, cartilage and dental tissue, delivered by Drs Keren Dittmer, Rob Foster and Cindy Bell. If you are in Boston, remember also that on Monday night the Foundation will host the traditional Award Ceremony, this year face to face for the first time since the beginning of the pandemic. Come and join us to celebrate our trainees and volunteers.

Finally, both at the Pre-Meeting Workshop and the Award Ceremony, we will be offering Foundation's merchandise and textbooks at a significantly discounted rate. These have been selling fast so get in early!

Looking forward to seeing you in one or more of our next meetings,

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



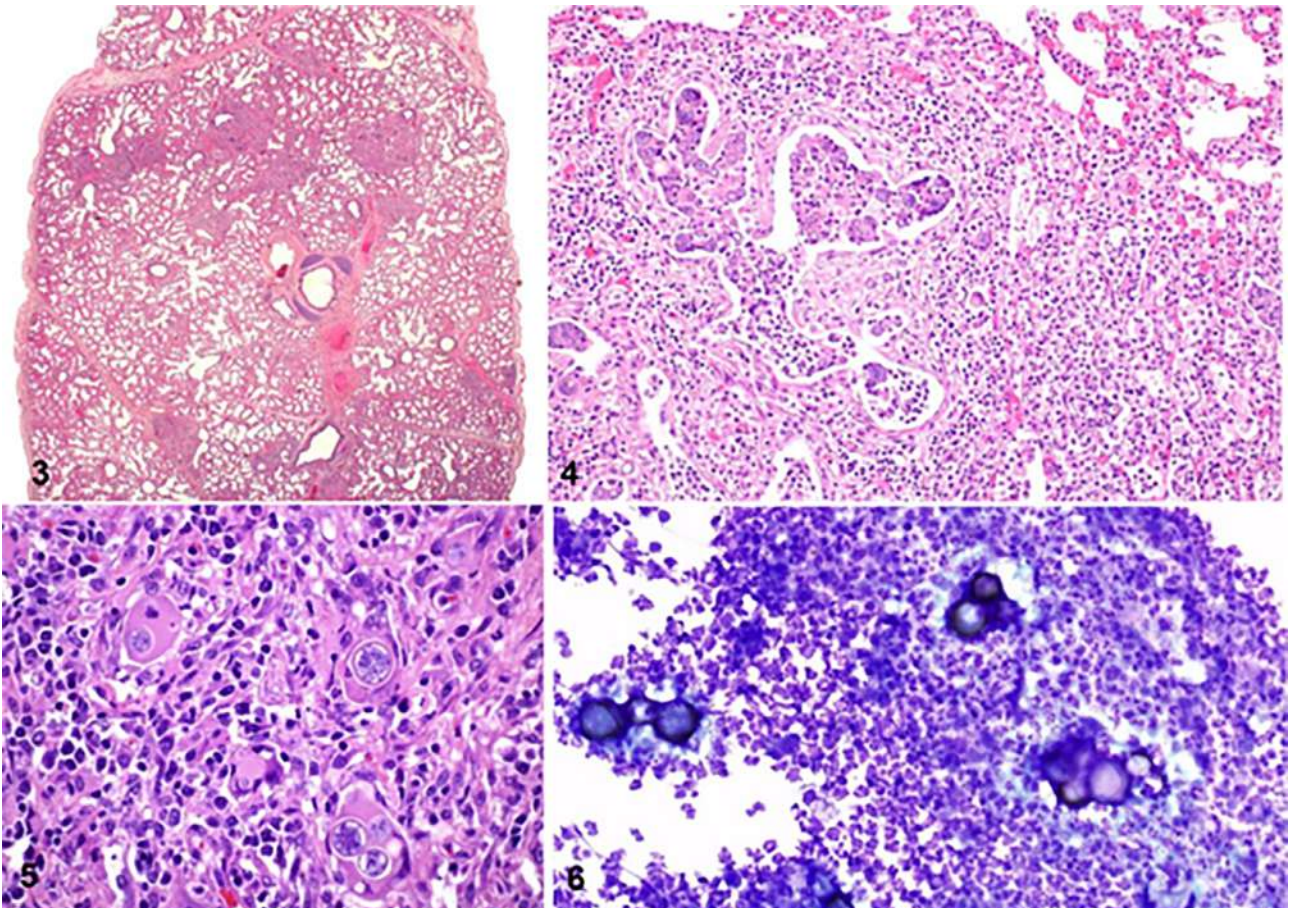
JVDI IN FOCUS

This month's focus is an article in JVDI's upcoming November issue, "Coccidioidomycosis in 26 horses in California, USA: case series and review of the literature" by Melissa Macías-Rioseco, Matthew Sheley, Jennine Ochoa, Francisco R. Carvallo-Chaigneau, Francisco A. Uzal.

J Vet Diagn Invest 2022;34(6). <https://journals.sagepub.com/doi/10.1177/10406387221114622>

Abstract. Coccidioidomycosis is a fungal disease caused by *Coccidioides immitis* or *Coccidioides posadasii*. We searched the records of the California Animal Health and Food Safety Laboratory from 1990 through 2020 for cases of coccidioidomycosis in horses. The selection criteria for these cases were: 1) live-born horses submitted for autopsy, and 2) a diagnosis of coccidioidomycosis was established, regardless of cause of death. During that time, 19,054 horses were received, and 26 cases (0.14%) of coccidioidomycosis were diagnosed in horses, of which 19 (73%) cases had pneumonia and/or pleuritis with or without lesions in other organs, and 7 (27%) cases had lesions only in organs other than the lungs (nasal mucosa, spleen, thoracic lymph nodes, heart, pericardial sac, liver, kidney, mediastinum, and/or mesentery). Pneumonia was diagnosed as the cause of death in 1,838 (9.64%) of the horses received; *Coccidioides* spp. was the cause of pneumonia in 19 (1.0%) of these animals. Horses have been reported to have low susceptibility to coccidioidomycosis, and the severity and chronicity of the disease can be variable. Lesions in our cases consisted of multifocal-to-coalescing pyogranulomas with intralesional fungal spherules. Coccidioidomycosis must be considered a differential diagnosis in cases of persistent cough, chronic weight loss, fever, and cases with a travel history to, or living in, a region considered endemic for coccidioidomycosis. *Coccidioides* spp. infection should also be considered when pyogranulomatous inflammation is found within lung, spleen, nasal mucosa, and lymph nodes of horses.

JVDI IN FOCUS



Figures 3–6. Microscopic pulmonary lesions from horses with coccidioidomycosis. Figure 3. Multifocal areas of consolidation. H&E. Figure 4. The pulmonary parenchyma is effaced by pyogranulomatous inflammation, including abundant macrophages, lymphocytes, plasma cells, neutrophils, and multinucleate giant cells. Figure 5. Langhans giant cells with intracytoplasmic round, 20–150- μ m fungal spherules, with endospores. H&E. Figure 6. Diff-Quick–stained lung impression smear with degenerate inflammatory cells and *Coccidioides* spp. spherules.

LATIN AMERICA ROADSHOW

The Davis-Thompson Foundation First Latin American Roadshow took place during October. This is the first year that something like this is done in the continent, and for the occasion Dr. Alfonso Lopez Mayagoitia (Emeritus professor, UPEI) travelled across 4 countries (Argentina, Uruguay, Paraguay and Colombia) sharing his vast experience in respiratory pathology during two continuous days, back to back, in each country. This is what happened....

The roadshow began on Thursday October 13, with Dr Lopez initiating this two-and-a-half week tour from his home in Canada. After spending the weekend in Buenos Aires, Dr. Lopez flew to Montevideo, Uruguay on Sunday, October 16. Dr. Jose Manuel Verdes organized the meeting, sponsored by the Universidad Nacional de la Republica in Montevideo. Pathologist and students from different areas of the country joined this series of presentations in which Dr Lopez shared all his years of experience, condensed in 12 hours of lectures on October 17 and 18.

Dr. Lopez flew back to Buenos Aires on October 19, and was hosted by Dr. Leonardo Minatel, from Universidad de Buenos Aires. Students and pathologists from all around Argentina congregated Buenos Aires on

on October 20 and 21 to listen and learn from Dr Lopez.

After a well-deserved resting during the weekend in Buenos Aires, Dr. Lopez flew to Asuncion, Paraguay, where he was hosted by Dr. Leila Maidana (Universidad de Asuncion). The next two days (October 24 and 25), Dr Lopez lectured in front of a packed auditorium. Local speakers also contributed to the two days of lectures and included Dr. JG Cantero (vaccine development), Dr. W. Cardozo (neuropathology), Dr. R. Maldonado (Equine medicine), Dr. T. Olivera (respiratory diseases in Brazil), Dr. R. Acuna (poultry production and diseases) and Dr. . M. Wiens (challenges for veterinarians in Paraguay).



LATIN AMERICA ROADSHOW

Do you think it ended there? Nope. Dr Lopez grabbed his suitcase and flew to Bogota Colombia, where Dr. Paola Barato (Corpavet) hosted him. And you know the rest of the story... Dr Lopez spent two days lecturing in Bogota, at Universidad Nacional de Colombia to numerous students and pathologists from all over Colombia. There were also local speakers including included Dr. O. Oliveria (calf pneumonia), Dr. P. Vargas (Pulmonary hypertension due to chronic respiratory disease), Dr. L. Carvajal (Pneumonia in dogs and cats) and Dr. G. Vargas (Pulmonary metastasis in dogs). After all of this, probably alittle tired but with this feeling of “mission accomplished”,

Dr Lopez flew back to Canada on October 29, having shared his knowledge with more than 300 students and pathologists from 4 countries. This is one of the most exciting experiences that the Davis-Thompson Foundation has had the honor to organize and sponsor, and with one of the most knowledgeable pathologists of the world. This is what we call a colorful, latinamerican party! Thank you Alfonso! Last, but no least, thank you to the DTF and to the local organizers in Latin America!



Dr Lopez and attendees to the roadshow in Buenos Aires, Argentina.



Dr. Lopez lecturing in a full auditorium in Asuncion, Paraguay.

LATIN AMERICA ROADSHOW



Dr. Lopez and attendees to the roadshow in Montevideo, Uruguay.



Dr. Lopez and attendees to the roadshow in Bogota, Colombia.



Dr Lopez and all attendees to the roadshow in Asuncion, Paraguay.



Hosts of the roadshow in the different countries. 1. Dr. Alfonso Lopez and Dr. Manuel Verdes (Montevideo, Uruguay). 2. Dr. Alfonso Lopez and Dr. Leila Maidana (Asuncion, Paraguay). 3. .Dr. Paola Barato and Dr. Alfonso Lopez (Bogota, Colombia). 4. Dr. Leonardo Minatel and Dr. Afonso Lopez (Buenos Aires, Argentina)

SEMINAR REVIEWS



Davis-Thompson
Foundation

22ND DAVIS-THOMPSON FOUNDATION DIAGNOSTIC PATHOLOGY SYMPOSIUM

In conjunction with the 65th
AAVLD annual meeting



Diseases of the nervous system 7 Oct 2022

On the 7th October, 2022, the Davis-Thompson Foundation was honored to host the 22nd DTF Diagnostic Pathology Symposium on diseases of the nervous system in hybrid virtual/in-person format at the 65th AAVLD annual meeting in Minneapolis. Attendees were treated to a full day of engaging and highly informative talks by a roster of neuropathology superstars!



Raquel Rech
DVM, MS, PhD, DACVP

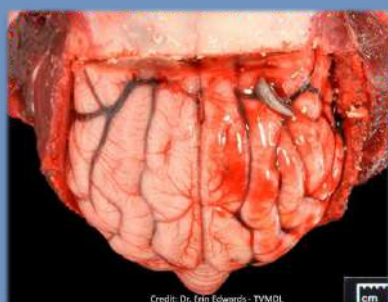


Andrew Miller
DVM, DACVP



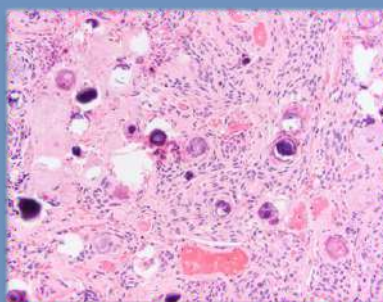
Kevin Woolard
DVM, PhD, DACVP

Dr. Rech kicked off the day with a great review of her approach to the gross and microscopic examination of the nervous system. Highlights included information on how to improve your postmortem brain examination technique, common artefacts to be aware of, as well as a spectacular collection of gross and microscopic photos from numerous classic CNS diseases - check out that Cuterebra!

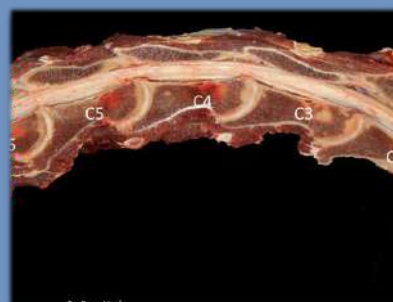


Credit: Dr. Erin Edwards - TVMDL

Dr. Miller followed up with two talks that took us on a whirlwind trip through the worlds of canine CNS neoplasia and encephalitides. Both talks were incredible summaries of both topics, and Dr. Miller was replete with advice on how to navigate through these groups of diseases which so often present a diagnostic conundrum for many pathologists.



Next up, Dr. Woolard regaled us with his diagnostic approach to ataxia in horses, and then followed with a tour through the patterns of injury in the peripheral nervous system. Dr. Woolard's insights on these topics were truly captivating – and as if that weren't enough, he then capped off the day with a brilliant review of PNS neoplasms which provided much-needed clarity to this complex group of tumors.



Dr. Karen Lloyd

SEMINAR REVIEWS



Speakers and volunteers of the Foundation which worked together to make this workshop an outstanding success. From left to right: Paco Uzal, Kevin Woolard, Mike Dark, Raquel Rech, Eileen Henderson, Javier Asin, Asli Mete, Eafaela DeNegri, Andrew Miller.

SEMINAR REVIEWS



Davis-Thompson
Foundation



IV Seminario Mexicano de la Fundación Davis-Thompson

Patología de fauna silvestre



En esta ocasión, la Fundación Davis-Thompson en colaboración con la Sociedad Mexicana de Patólogos y la Universidad Autónoma de Zacatecas organizaron un evento virtual donde ponentes de diversas instituciones impartieron seminarios relacionados con patología anatómica y clínica de especies silvestres en vida libre y cautiverio.

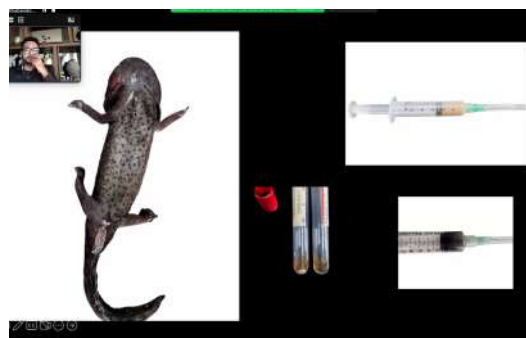


Entre los temas abordados estuvieron la toma de muestras microbiológicas y la aplicación de la patología clínica en fauna silvestre, algunas de las enfermedades más frecuentes en herbívoros y felinos africanos, así como las patologías descritas durante el proyecto de conservación del lobo mexicano y la investigación incipiente en patología de ajolotes.

¡Sin duda, un evento que vale la pena recapitular!

"O seminário foi excelente, com excelentes expositores e palestras copiosas de informações."

"Seminario muy bueno, útil y actualizado; buenos ponentes."



¡ESPERA LAS RETRANSMISIONES EN EL CANAL DE YOUTUBE!

SEMINAR REVIEWS



MENSUALES

SEMINARIOS DE HISTOPATOLOGÍA

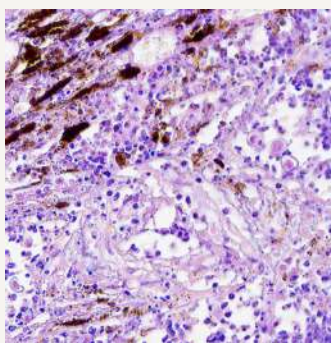
INTERACTIVOS



EN ESPAÑOL

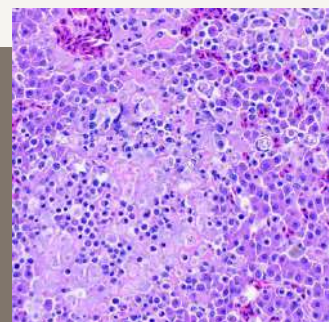


Sesión octubre
Dr. Federico Cifuentes



En la sesión de este mes se describieron casos infecciosos en diversas especies (blastomycosis, parvovirus e histomoniasis), así como la revisión de un tumor en la base del corazón. En esta ocasión el Dr. Federico Cifuentes, catedrático de la Universidad de Chile, estuvo a cargo de la moderación.

Ya que estos seminarios son interactivos, se invita a todos los asistentes a participar como voluntarios en la descripción de las láminas digitales, las cuales están disponibles días previos a la sesión. Las grabaciones de este y los seminarios previos están disponibles en el canal de Youtube de la Fundación.



SEMINAR REVIEWS

AUSTRALIAN DIVISION – LYMPHOMA WORKSHOP AT MELBOURNE ZOO

10 OCTOBER
2022



A day exploring the world of Lymphoma was held recently in the exotic Leopard Lodge conference facility at Melbourne Zoo, Australia. The Davis-Thompson Foundation's US and Australian Divisions sponsored a 1-day workshop held before a 4-day joint congress of the Australian Society for Veterinary Pathology and the International Society of Animal Clinical Pathology 11-15 October.

DTF sponsored the keynote speaker Professor William Vernau from UC Davis who took workshop participants through the application of how the human WHO classification of Lymphoma was modified and applied to canine lymphoma. He also presented how molecular clonality is used in the diagnosis of lymphoid disease.



Introducing Professor Vernau (right) was DTF Board member and Director of the Australian Division of DTF Dr Tony Ross. Dr Ross and Professor Vernau were part of a large team which co-authored the publication "Classification of Canine Malignant Lymphomas According to the World Health Organization Criteria." (Veterinary Pathology 48(1) 198-211, 2011). Professors Ted Valli, Peter Moore and Bill Vernau lead the large team of authors.

Dr Tony Ross Has been Director of DTF's Australian Division since 2006. During a break in the workshop, Dr Ross was presented with Life Membership of the Australian Society for Veterinary Pathology in recognition of 40 years of service to ASVP. He is only the 6th Life Member in the Society's history.





DIAGNOSTIC EXERCISE



Case #: **197** Month: **September**; Year: **2022**
Question Sheet

Contributors: Daniel Felipe Barrantes Murillo¹, DVM, MS; Rachel Texeira Neto¹, DVM, MS, DACVP.

¹Auburn University College of Veterinary Medicine, Department of Pathobiology. Auburn, AL 36849. rtn0004@auburn.edu

Clinical History: A 5-year-old, entire male domestic ferret (*Mustela putorius furo*) was presented to the clinic for excisional removal of a 1.5 cm mass on the distal aspect of the tail.

Gross Findings: The sample is comprised of a 3 cm x 2 cm x 1 cm segment of haired skin, previously cut, with 2 cm diameter nodular firm white mass (representative sections were taken) (Figures 1A and B).

Gross Images:



Figure 1

Follow-up Questions:

- *Morphologic diagnosis*
- *Gross and histological features*

Associate Editor for this Diagnostic Exercise: Saulo Pavarini
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 (http://www.cldavis.org/diagnostic_exercises.html).

Click here for answers

SEMINAR SERIES IN PORTUGUESE

The poster features a dark teal background with a large, detailed image of a horse's skull showing significant dental and jaw pathology. In the bottom right corner, there is a black silhouette of a person's head and shoulders. Various logos are positioned in the top left: a shield with a caduceus, the Davis-Thompson Foundation logo, a circular logo for the Associação Brasileira de Veterinária, and a map of South America with 'JOGG' written vertically. The title 'Seminar Series in Portuguese' is in large orange letters, followed by the date 'Quarta, 9 de novembro 2022' and the time '18:00-19:30 BST' in a grey box. The topic 'Patologia de doenças micóticas.' is written in large red letters over the skull image. The speaker's name 'Antônio Flávio Dantas' and credentials 'DVM, PhD' are at the bottom left.

**Seminar Series
in Portuguese**
Quarta, 9 de novembro 2022
18:00-19:30 BST

**Patologia de doenças
micóticas.**

Antônio Flávio Dantas
DVM, PhD

[Click here to register](#)

GLOBAL HEALTH PATHOLOGY WORKSHOP



Davis-Thompson
Foundation



Agriculture and Forestry University



WORKSHOP ON LIVESTOCK AND WILDLIFE DISEASES

NOVEMBER 7-10, 2022



Dr. Pal
DVM, PhD



Corrie Brown
DVM, PhD, DACVP



Ishtiaq Ahmed
DVM, MSc (Hons), PhD




Dalen Agnew
DVM, PhD, DACVP




[Click here to register](#)

LCPG HISTOPATH ROUNDS



RONDAS DE HISTOPATOLOGÍA
DEL LCPG




Davis-Thompson
Foundation

“ENFERMEDADES DE CONEJOS Y AVES”

Jueves 17 de Noviembre, 2022
10:30 AM - 11:30 AM CT

INTERACTIVO
VIRTUAL
EN ESPAÑOL



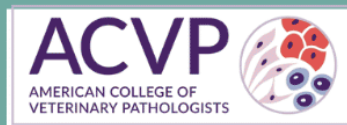
Javier Asin
DVM, PhD, DECVP

Registration information
coming soon at the DTF
website

ACVP PRE-MEETING WORKSHOP



Davis-Thompson
Foundation



November 12, 2022

8:00am-5:00pm EST

Westin Boston Waterfront
Hotel, Boston, MA

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



Keren Dittmer, BVSc, PhD, DACVP

Rob Foster, BVSc, PhD, DACVP



Cindy Bell, DVM, DACVP

Registration coming soon
on the ACVP website

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

[Click here to register](#)

DESCRIPTIVE PATHOLOGY COURSE



Davis-Thompson
Foundation

5-9 December 2022
UFMG Veterinary School
Belo Horizonte, Minas Gerais

Brazilian Descriptive Veterinary Pathology Course

- gross pathology foundations
- microscopic pathology foundations
- macro-micro correlates
- ultrastructural pathology foundations
- special techniques (IHC, ISH, molecular)

Lectures in
English with
Portuguese
translation



Dr. Linden Craig



Dr. Jey Koehler



Dr. Patty Pesavento

[Click here to register](#)

GEN PATH REVIEW COURSE



**Davis-Thompson
Foundation**

GENERAL PATHOLOGY
REVIEW COURSE

**JANUARY 30
to FEBRUARY 3
2023**

James Stanton
Patricia Pesavento

**SAVE
THE
DATE**

Registration information
coming soon at the DTF
website

INTRODUCTION TO VET HISTOPATH

Davis-Thompson Foundation

Virginia-Maryland
College of Veterinary Medicine

SAVE THE DATE

MARCH 1 - MAY 31, 2023
9 AM EST

INTRODUCTION TO VETERINARY HISTOPATHOLOGY

14 SESSIONS
EVERY WEDNESDAY FOR 3 MONTHS

\$150 virtual live (only 50 seats)/\$50 rebroadcast
Course director: Francisco Carvallo (francisco.carvallo@gmail.com)

Registration information
coming soon at the DTF
website

SPANISH MEETING

2ND SPANISH DAVIS-THOMPSON FOUNDATION MEETING **DISEASES AND PATHOLOGY OF RUMINANTS AND PIGS**

FOCUS ON GI PATHOLOGY



Davis-Thompson
Foundation



Universitat de Lleida

JOAQUIM SEGALÉS

DVM, PHD, DECPHM, DECVP

FRANCISCO UZAL

DVM, MSC, PHD, DACVP



NECROPSY WET LAB!



30-31ST
MARCH, 2023



IN
PERSON



LLEIDA
SPAIN

Registration information
coming soon at the DTF
website

BSTP CORNER

BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

Notice of Future Meetings - August 2022



The BSTP are happy for you to disseminate any of this information to colleagues within your group.

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

Approved by the Royal Society of Biology for the purposes of CPD, this event may be counted as approximately 33 credits.
Approximately 11 hours of educational activity will be recorded on Attendance Certificates.

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

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

As for previous meetings, the Pathological Society of Great Britain & Ireland are offering free registration to six of their trainees and the BSTP will offer free registration to three of their trainees.

All ASM 2022 meeting attendees are encouraged to submit a poster on either digital pathology or mouse pathology. There is a prize for the best poster. All poster abstracts must be submitted by midnight on 14th October 2022 to Anna Whitelaw at events@hg3.co.uk

For more information on the bursaries, poster criteria and to register visit -
<http://www.bstp.org.uk/events/37th-annual-scientific-meeting-of-the-bstp/>

Virtual CES 7: Infectious Diseases of Laboratory Animals
Tuesday 14th – Thursday 23rd March 2023

This Continuing Education Symposium will cover an overview of the infectious diseases in laboratory animals in preclinical animal species.

Detailed information, including the programme and a registration form will be available towards the end of 2022.

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

or visit: <http://www.bstp.org.uk/events/ces-7-infectious-diseases-of-laboratory-animals/>

BSTP CORNER

Virtual CES 8: Nervous System

Tuesday 11th – Thursday 20th July 2023 **(New dates)**

This CES will cover the rodent and non-rodent nervous system; INHAND – neoplastic and non-neoplastic lesions of the central and peripheral nervous system, regulatory concerns, and workshops/case presentations.

Detailed information, including the programme and a registration form will be available in early 2023.

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

or visit: <http://www.bstp.org.uk/events/ces-8-nervous-system-via-zoom/>

Webinars

BSTP webinars - in collaboration with the Society of Toxicological Pathology (STP)

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

For information on any events organised by the BSTP, please contact the BSTP Secretariat - bstpsecretariat@gmail.com

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

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

Future BSTP events are due to take place as follows:

10th & 11th November 2022	37th Annual Scientific Meeting & AGM (IN PERSON) Digital Pathology and Mouse Pathology Workshop
14th – 23rd March 2023	Virtual CES 7 - Infectious diseases of laboratory animals
11th – 20th July 2023	Virtual CES 8 - Nervous System
November 2023	38th Annual Scientific Meeting & AGM
March 2024	CES 9 - Urinary System
July 2024	CES 10 - Digestive System
November 2024	39th Annual Scientific Meeting & AGM
March 2025	CES 11 - Cardiovascular System
July 2025	CES 12 - Endocrine System
November 2025	40th Annual Scientific Meeting & AGM
March 2026	CES 13 - Lymphoid & Haematopoietic Systems
July 2026	CES 14 - Musculoskeletal System & Skin
November 2026	41st Annual Scientific Meeting & AGM

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.

IDEXX CASECONNEXX CORNER

Signalment: 32-year-old, Yellow-naped parrot, female

Source/ History: No clinical history provided. Parrot is fed organic pears, peaches, tomatoes, and apples from the yard. She is also fed peaches, pears, organic grapes, and bananas from the store. Necropsy results: Lungs normal, green plant material and seeds in crop, green soft fecal material in intestines, kidneys spotted with tiny white lesions, pericardial sac white coating, liver grossly normal, well-muscled. No evidence of fruit pits found in GI tract.

Microscopic Description:

Examined are sections of kidney. Frequently, tubules are mildly to moderately dilated with attenuated epithelium and luminal sloughed epithelial cells, many brightly eosinophilic variably sized round urate spherules, or brightly eosinophilic amorphous eosinophilic material (proteinosis). Multifocally and randomly there are variably sized aggregates of acicular radiating clefts replacing and expanding tubules and extending into the interstitium. These foci are associated with cellular and karyorrhectic debris, and amorphous to granular eosinophilic material surrounded by mild to occasionally moderate numbers of heterophils and histiocytes. Multifocally, other tubules are lined by swollen epithelial cells or brightly eosinophilic shrunken epithelial cells with pyknotic nuclei. There is mild multifocal tubular mineralization and occasional regeneration. Multifocally in glomeruli, there is segmental to global expansion of mesangial loops by amorphous eosinophilic material. Multifocally in the interstitium are mild numbers of lymphocytes, plasma cells and granulocytes.

Microscopic Interpretation:

Kidney: Moderate to marked, multifocal, tubular degeneration and necrosis with multifocal urate tophi, intratubular urate spherules, tubular mineralization, tubular dilation and proteinosis, mild to moderate heterophilic, histiocytic and lymphoplasmacytic interstitial nephritis, and multifocal segmental to global membranous glomerulopathy

Comments:

The histologic findings in the kidney are consistent with renal gout. Gout is a disease caused by urate crystal deposition in tissue, typically articular/synovial surfaces of joints and/or in the renal parenchyma and serous surfaces of viscera in birds. Visceral gout or a mixed visceral-articular form is seen more commonly in birds and is more of an acute to subacute process.

Visceral gout is considered a manifestation of severe renal dysfunction/impaired excretion resulting in hyperuricemia and urate crystal deposition in tissues. It can be associated with dehydration, post-renal obstruction, nephrotoxins, viruses or other infectious agents, and elevated dietary protein. Other factors such as metabolic disorders, vitamin deficiencies and general environmental stressors can also interfere with renal function and result in tissue urate deposition (gout).

Reference: Karen Terio, Denise McAloose & Judy St. Leger, eds. Pathology of Wildlife and Zoo Animals. 1st ed. San Diego, CA: Academic Press, 2018

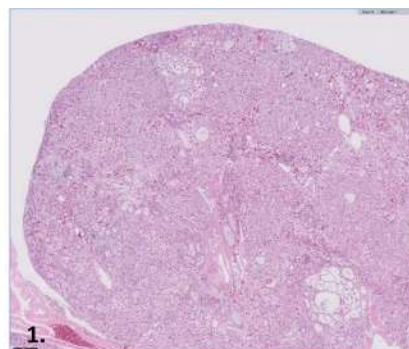


Figure 1. (2X magnification, H&E stain) Multifocally in the kidney, there are regions of variably dilated tubules and foci of increased cellularity. There is mild congestion throughout the parenchyma.

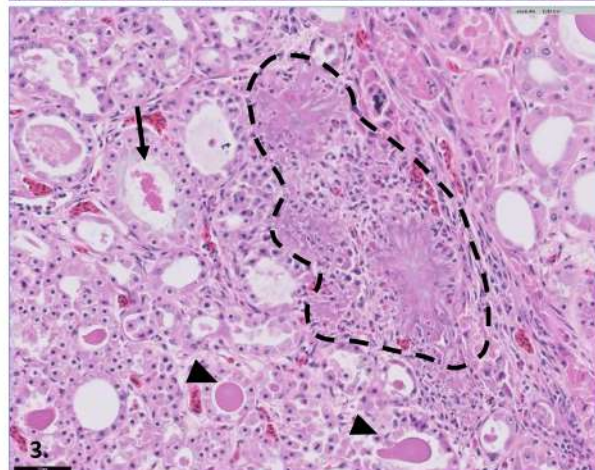
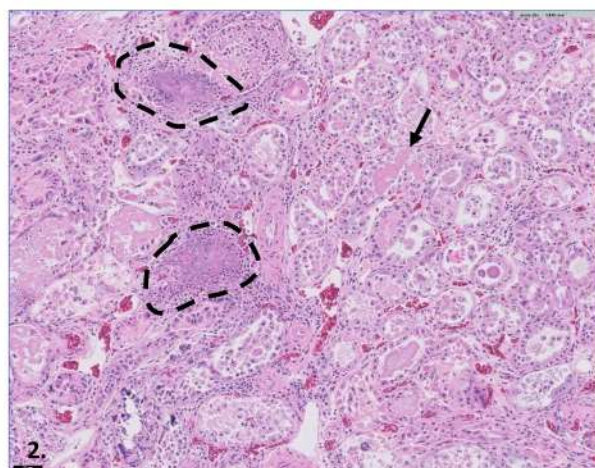


Figure 2 (20X magnification, H&E stain) and Figure 3 (40X magnification, H&E stain) Multifocally and randomly there are variably sized aggregates of acicular radiating clefts consistent with urate tophi (dashed outlines). Frequently, tubules contain many brightly eosinophilic variably sized round urate spherules (arrows) or brightly eosinophilic amorphous eosinophilic material (proteinosis; arrowheads). Multifocally, tubules are lined by brightly eosinophilic shrunken epithelial cells with pyknotic nuclei (necrosis).

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IDEXX

Case by
Joseph Malatos, DVM, DACVP

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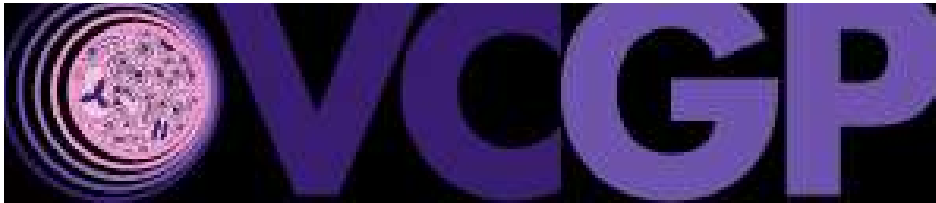
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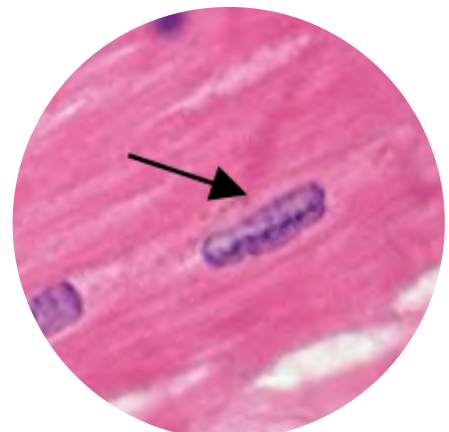
EDITORIAL

Han pasado ya 13 años desde la publicación del primer número del Archivo Veterinario del Este. Nuevas enfermedades siguen apareciendo y poco a poco se hace más claro el patrón de comportamiento de la mayoría de los problemas sanitarios. El diagnóstico patológico es complejo y requiere de creatividad, rutina y décadas de actividad continua. DILAVE, el laboratorio oficial del MGAP, fue fundado en 1932 como Laboratorio de Biología Animal por el Dr. Miguel C Rubino (cumplimos 90 años). Actualmente acumula decenas de miles de registros sistemáticos, metódicos y lógicamente ordenados, con una base de datos capaz de proporcionar información útil al sector agropecuario. En este número seguimos con el objetivo de describir las nuevas enfermedades diagnosticadas el primer semestre y analizar aquellas de las que ya disponemos de información de interés regional.



Dr. Fernando Dutra Quintela
Encargado del Laboratorio

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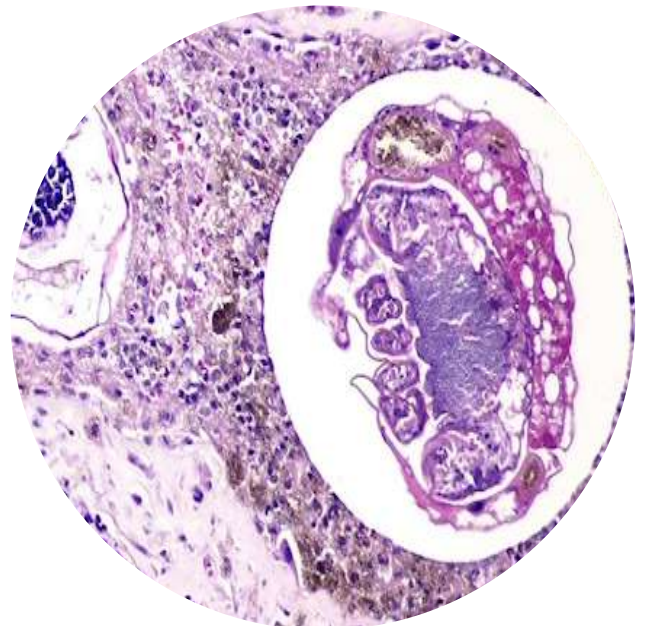


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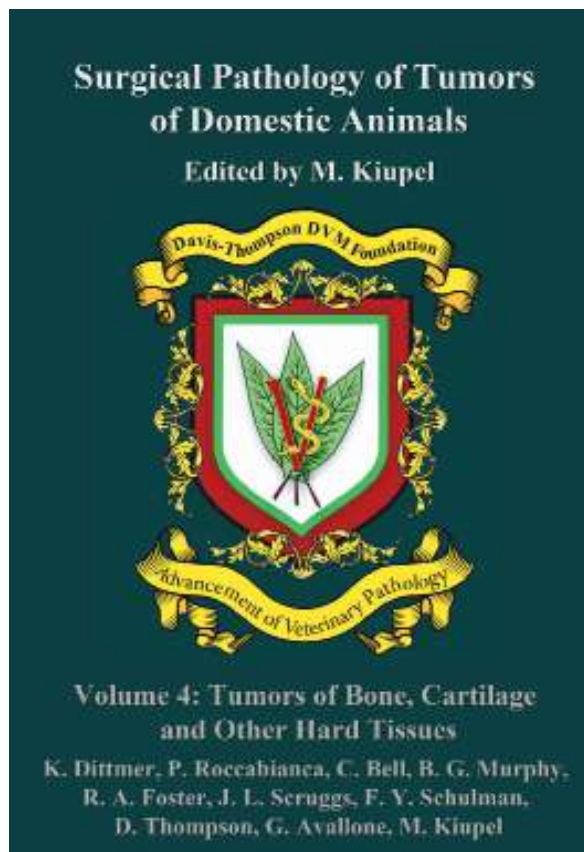
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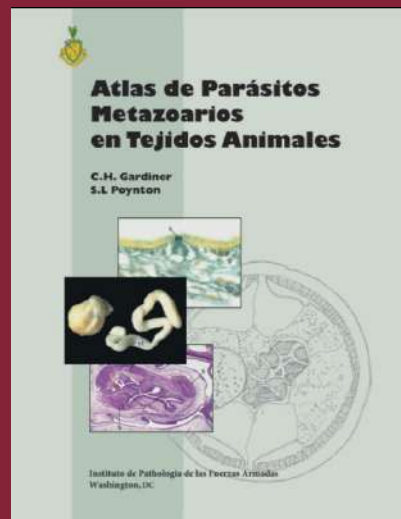
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NOVEMBER 2022