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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

July 2022

**VOL. 52**



# INSIDE THIS ISSUE

## Monthly cover photograph winner: Sawang Kedsangakonwut

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

**Signalment:** A 13-year-old, intact male dalmation dog (*Canis lupus familiaris*).

**Diagnosis:** Urinary bladder: cystitis, catarrhal, diffuse, with mucosal congestion  
and myriad uroliths

**Disease:** Cystic calculi

- |  |   |
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# MESSAGE FROM THE CEO

Dear colleagues

Welcome to the July issue of the Davis-Thompson Foundation Newsletter, prepared by our outstanding Managing Editors Jeann Leal and Javier Asin.

Slowly, the world is coming back to face to face activities and so is your Foundation. Check this issue, which comes, as usual, full of information on our training activities around the world, including an increasing number of in person seminars and workshops.

Amongst the myriad training opportunities coming up, if you are considering attending the annual meeting of AAVLD and/or ACVP, when you register for these events, keep in mind our great pre-congress seminars, including both of them, a full day of continuous education for trainees and full-fledged pathologists.

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

Enjoy

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



## MESSAGE FROM THE CFO

In 2023, at least 3 of the Foundation's big 4 courses (General Path Review Course, Descriptive Veterinary Pathology Course, Current Literature and Image Interpretation Course, and CLASS/POLA) will be returning to an in-person only format. We are currently discussing the in-person vs. virtual options with the faculty of the Gen Path Review Course, which will begin its annual advertising this fall.

Since 2020, we have provided Zoom versions of these important training courses in the face of the COVID-19 pandemic, but these courses are, and were always meant to be, an in-person, immersive learning experience where young pathologist can focus all of their attention on learning the material, interact directly with instructors but also have the opportunity to network with future colleagues in their field.

As other major meetings such as the AAVLD, ACVP, AAZV, and many others return to in-person starting this fall(2022), the Davis-Thompson Foundation will return to our regular slate of in-person meetings in 2023, in countries in Latin America, Europe, Asia, and Australia. We know that our Divisions in all of these countries are as eager to see their colleagues in person again as we are, and that our Faculty of Discussants is eager to return to the road as well - there is nothing like teaching students in person.

The Foundation Executive Board and our Webinar committee will be having discussions this fall as to what the online offerings will be in 2023 and beyond - stay tuned for details!

Bruce Williams, DVM, Dipl. ACVP  
Chief Financial Officer  
Davis-Thompson Foundation

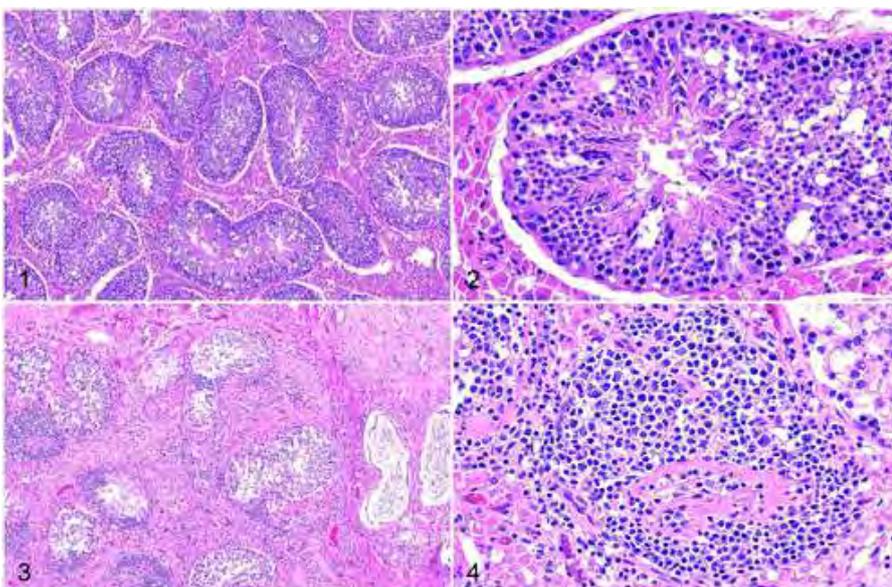


# JVDI IN FOCUS

This month's focus is an article in JVDI's May issue, "Persistence and shedding of senecavirus A in naturally infected boars" by Matthew J. Sturos, Deborah Murray, Levi Johnson, Guilherme Preis, Cesar A. Corzo, Stephanie Rossow, Fabio A. Vannucci.

J Vet Diagn Invest 2022;34(3). <https://journals.sagepub.com/doi/10.1177/10406387221084054>

**Abstract.** Senecavirus A (SVA) infection in pigs causes vesicular disease and results in a short viremia and transient shedding of the virus, mainly in oral fluids and feces. Here we describe the consistent prolonged shedding of SVA in the semen of 2 boars, and persistence of SVA within the tonsils and testes of 3 adult boars. Two SVA-infected boars that were identified on a Minnesota sow farm in 2017 shed SVA RNA in semen for >3 mo after an outbreak of vesicular disease had occurred on the farm. SVA was isolated from 1 semen sample collected 9 d after clinical disease began on the farm. The third SVA-infected boar was identified on an Indiana sow farm in 2020. All boars had SVA RNA detected in the testes and tonsils by RT-rtPCR, with lower Ct values obtained for the testes than from the tonsils. All boars had multifocal lymphocytic orchitis with segmental degeneration and atrophy of the germinal epithelium within the seminiferous tubules. One boar also had areas of seminiferous tubule collapse and interstitial fibrosis within the testes. In all boars, in situ hybridization demonstrated the presence of SVA mRNA within cells located basally in the seminiferous tubules of the testes, and within the basal surface epithelial cells, crypt epithelial cells, and subepithelial and parafollicular lymphocytes and histiocytes of the tonsil.



Figures 1–4. Senecavirus A infection of testes in a domestic pig. Figure 1. Unaffected normal testicular tissue in boar 4. H&E. Figure 2. Higher magnification from Figure 1. Unaffected normal seminiferous tubule with orderly maturation of the germinal epithelium. H&E. Figure 3. Lobules of seminiferous tubules with multifocal lymphocytic orchitis, segmental degeneration and atrophy of the germinal epithelium, with tubular dilation or collapse, and interstitial fibrosis in boar 4. H&E. Figure 4. Higher magnification from Fig. 3. Centrally, infiltrates of lymphocytes surround a collapsed seminiferous tubule devoid of Sertoli cells and germinal epithelium, with increased collagen in the adjacent interstitium.

# SEMINAR REVIEWS



Davis-Thompson  
Foundation

## Necropsy Course

The inaugural Necropsy course was held on June 11 and 12, 2022 at Murray State University, Breathitt Veterinary Center in Hopkinsville, KY. This was a new endeavor of the Foundation created primarily to assist foreign graduate veterinarians preparing for the AVMA Educational Commission for Foreign Veterinary Graduates Clinical Proficiency Exam (CPE). However, the course was also attended by veterinarians looking to improve their necropsy skills. The course was hosted by Dr. Rafaela De Negri and Dr. Nathan Helgert and provided the opportunity for ten veterinarians to spend 2 days practicing necropsy techniques. In addition, the course provided a necropsy demonstration to a virtual audience via Zoom.

Participants were from all over the world, including the USA, Canada, Brazil, India, Iraq, Japan, Korea, Mexico, Poland, Peru and Spain. The focus of the course was to develop a consistent, easily reproducible necropsy protocol to ensure that all procedures and samples in the CPE handbook are completed. All participants were provided introductory instruction followed by a live necropsy demonstration.



# SEMINAR REVIEWS

The in-person participants were able to practice necropsy following the guidelines laid out in the CPE handbook and take a mock exam in preparation. By the end of the weekend, all veterinarians, including those with very limited necropsy experience were comfortable performing a necropsy following the CPE guidelines. We anticipate this outreach opportunity will plant little seeds to also improve the quality of samples veterinarians provide to diagnostic laboratories all over the USA. When these veterinarians complete the CPE, they will become licensed veterinarians, and the majority are interested in pursuing careers in general practice.

In-person participants were treated to the gracious Southern hospitality of a small KY town and built great camaraderie to relieve their arduous journey into board equivalency. Given the interest and positive feedback received, we hope to provide this course on a regular basis.





# DIAGNOSTIC EXERCISE



Case # **191**; Month: **June**; Year: 2022

**Contributors:** Harlan Hallamys C de Lima Nascimento\*, DVM, MS, Doctor in Veterinary Pathology, Mariana Martins Flores\*, DVM, MS, Doctor in Veterinary Pathology. \*Laboratory of Veterinary Pathology, Universidade Federal de Santa Maria (UFSM), Santa Maria, Rio Grande do Sul, Brazil. [mariana.flores@ufsm.br](mailto:mariana.flores@ufsm.br)

**Clinical History:** This 3-year-old female poodle was one month pregnant. It had a single episode of vomiting. The next day, the owner noticed the dog was apathic and fell down, not being able to get up. It died on the way to the hospital. No information regarding vaccination history and deworming were provided.

**Necropsy Findings:** A small amount of translucent blood-stained fluid was within the abdominal cavity. Several deep and superficial lymph nodes were edematous and hemorrhagic on cut surface. Multiple red fibrin strands were adhered to the intestinal serosa and liver capsule (Figure 1). The intestines had a discretely granular serous surface, and the mucosa was hemorrhagic (Figure 2). The liver was slightly enlarged and congested, had a slightly granular capsular surface and was friable on cut surface (Figure 3). Other organs were unremarkable.

**Gross and/or microscopic image(s):**



Figure 1



Figure 2



# DIAGNOSTIC EXERCISE

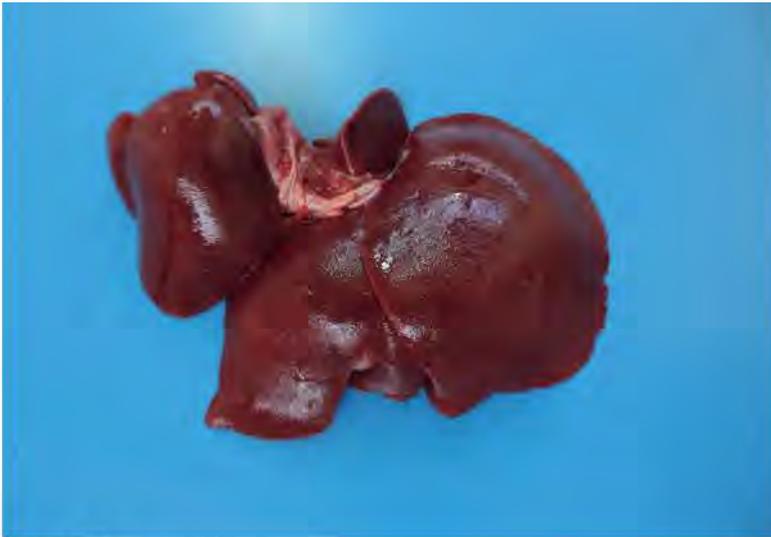


Figure 3

### Follow-up questions:

1. Name hepatic diseases that could be included as possible diagnoses in this case.
2. What histologic change would you expect in the liver in these conditions?
3. What histologic hepatic changes would help differentiate these conditions?
4. What abnormalities would you expect in serum biochemistry tests?

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/>)

**Associate Editor for this Diagnostic Exercise:** Mariana Flores  
**Editor-in-chief:** Claudio Barros

Click here for answers

# REWIND SEMINAR



Davis-Thompson  
Foundation

REWIND 

Free Friday Seminar

Friday, July 15, 2022

Rewinding from Oct 2021

11am-12:30pm CST



## Gross Photography Tips

**David Garnick**  
**BS, MS, PhD**

[Click here to register](#)

# ISACP WEBINARS



International Society for Animal Clinical Pathology

## ISACP WEBINARS

### IRON METABOLISM

July 19, 2022 “Physiology of Iron Metabolism”

July 21, 2022 “Disorders of Iron Metabolism”

Webinars start at 1:00pm Eastern time (US and Canada) | 1.5 hours each



Presented by:

John W. Harvey, DVM, PhD, DACVP

College of Veterinary Medicine

University of Florida

**The webinars are FREE, but preregistration is required**

Physiology: [https://us06web.zoom.us/webinar/register/WN\\_c81mpaW6TTavLQFqllTpcA](https://us06web.zoom.us/webinar/register/WN_c81mpaW6TTavLQFqllTpcA)

Disorders: [https://us06web.zoom.us/webinar/register/WN\\_JoEc33A0Q8qRwGJ\\_crpeKg](https://us06web.zoom.us/webinar/register/WN_JoEc33A0Q8qRwGJ_crpeKg)

# LITERATURE & INTERPRETATION COURSE



**July 25-29, 2022**



Davis-Thompson  
Foundation

## CURRENT LITERATURE AND IMAGE INTERPRETATION COURSE

FORMERLY THE "GROSS COURSE"



VIRTUAL



THE UNIVERSITY OF  
TENNESSEE  
KNOXVILLE

**LINDEN CRAIG**  
DVM, PHD, DACVP

**KIM NEWKIRK**  
DVM, PHD, DACVP

**MICHELLE DENNIS**  
DVM, PHD, DACVP

**DENAE LOBATO**  
DVM, PHD, DACVP

**WESLEY SHELEY**  
DVM, PHD, DACVP

[Click here to register](#)

# CLASS/POLA 2022



Davis-Thompson  
Foundation



**Penn**  
UNIVERSITY of PENNSYLVANIA

**REGISTER HERE!**

**2022  
CURRENT LAB ANIMAL  
SCIENCE SEMINAR (CLASS)  
& PATHOLOGY OF LAB  
ANIMALS (POLA)**

**CLASS** | **POLA**  
**AUGUST 6-7** | **AUGUST 8-12**



**VIRTUAL**

[Click here to register](#)

# SEMINAR SERIES IN PORTUGUESE



The poster features a dark teal background with a light grey rounded rectangle containing the seminar details. At the top left, there are logos for the Davis-Thompson Foundation, the Brazilian Veterinary Association (Associação Brasileira de Veterinários), and a map of Brazil. The title 'Seminar Series in Portuguese 2022' is in large orange and white text, with the time '18:00-19:30 BST' in red below it. The seminar topics and speakers are listed in a vertical column, each with a small portrait or silhouette, a date in a yellow and white box, and the speaker's name and credentials in dark red and white text.





## Seminar Series in Portuguese

### 2022

18:00-19:30 BST

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

Click here to register for individual seminars

# AUSTRALIAN SEMINAR SERIES



Davis-Thompson  
Foundation



## Australian Seminar Series

1st semester 2022

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



**APR** ::::

**30**

### Pathology of Infectious Diseases in Reptiles

**Rob Ossiboff**

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



**MAY** ::::

**19-20**

### Foreign animal disease and outbreak preparedness workshop

**Multiple speakers (see website)**

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



**JULY** ::::

**02**

### Dermatopathology

**Verena Affolter**

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



**JULY** ::::

**09**

### Pathology of Small Ruminants

**Shane Besier**

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

[Click here to register  
for individual seminars](#)

# ARGENTINIAN SEMINAR

**24 y 25 de agosto 2022**

**información para inscripción disponible pronto**

**XVI SEMINARIO ARGENTINO DE LA FUNDACION DAVIS-THOMPSON**

**XI FORO DE ENSEÑANZA DE LA PATOLOGIA VETERINARIA**

modalidad híbrida  
en castellano

**Mario Bedolla**  
MVZ, MSc

**Santiago Diab**  
DVM, DACVP

**Marti Pumarola**  
DVM, DECVP

**Carmen Jerry**  
DVM, PhD, DACVP

**Gabriel Senties**  
MVZ, EPAA, MS

Facultad de Ciencias Veterinarias  
Universidad Nacional del Litoral  
Esperanza, Santa Fe, Argentina

# NHP PATHOLOGY WORKSHOP

2022 ANNUAL SYMPOSIUM  
DAVIS-THOMPSON FOUNDATION  
EUROPEAN DIVISION

## Non-human Primate Pathology Workshop



**ANNE LEWIS**  
DVM, PHD, DACVP



**AMANDA BECK**  
DVM

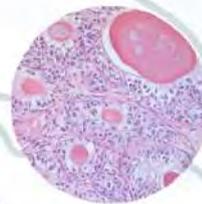
**5&6  
Sept  
2022**



in person

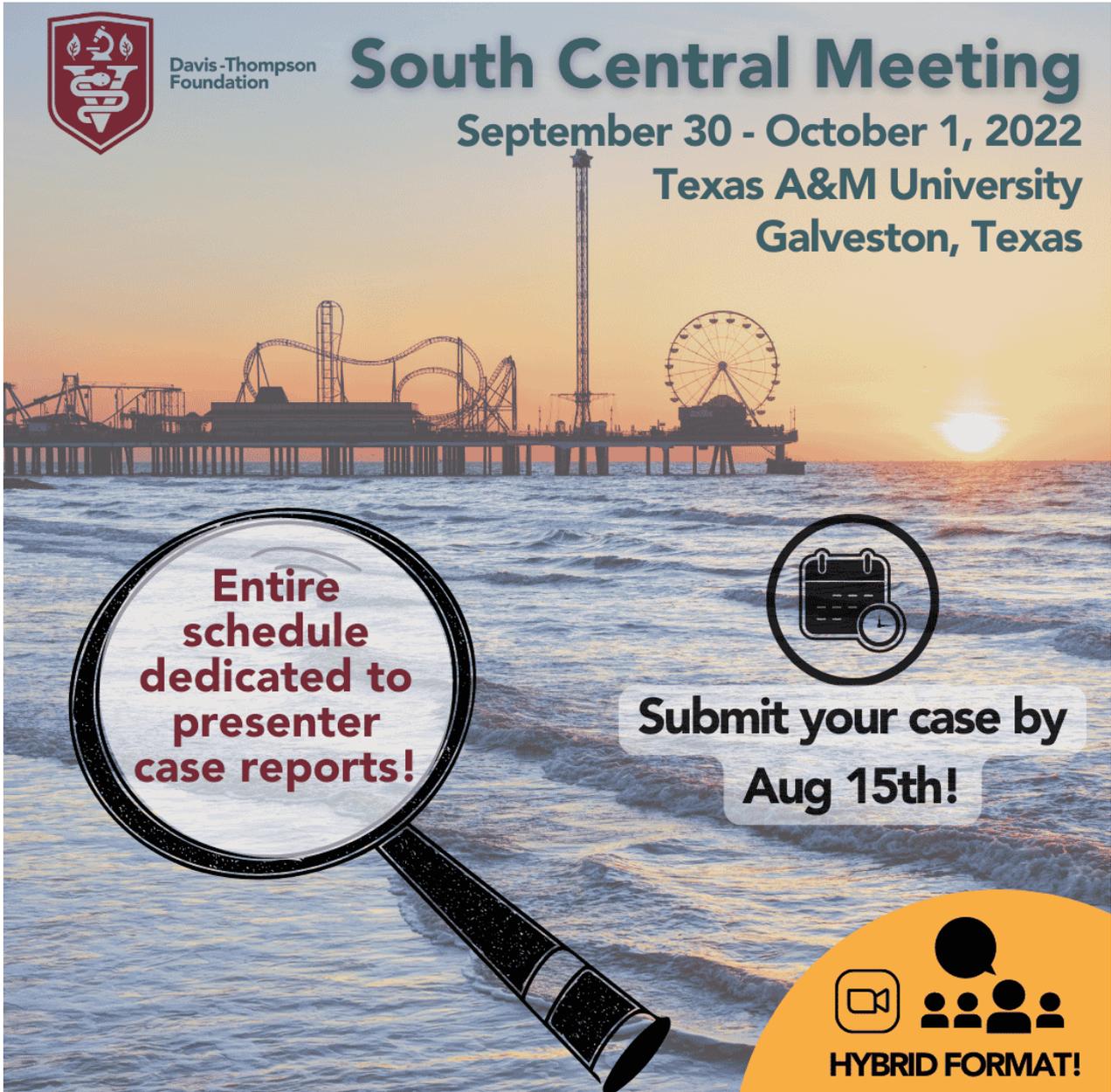


Athens, Greece  
Sofitel, Athens Intl Airport



[Click here to register](#)

# SOUTH CENTRAL MEETING



 Davis-Thompson Foundation

## South Central Meeting

September 30 - October 1, 2022  
Texas A&M University  
Galveston, Texas

**Entire schedule dedicated to presenter case reports!**

 Submit your case by **Aug 15th!**

  
**HYBRID FORMAT!**

[Click here to register](#)

# AAVLD DISEASES OF THE NERVOUS SYSTEM



Davis-Thompson  
Foundation



22ND DAVIS-THOMPSON  
FOUNDATION DIAGNOSTIC  
PATHOLOGY SYMPOSIUM

In conjunction with the 65th  
AAVLD annual meeting

## Diseases of the nervous system

### SAVE THE DATE!

7 Oct 2022

8 AM  
-  
5 PM  
CDT



Hybrid format



Hyatt Regency Minneapolis

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

Registration informa-  
tion coming soon on  
AAVLD website

# LATIN AMERICA ROAD SHOW

**URUGUAY**  
OCTUBRE 17-18

**ARGENTINA**  
OCTUBRE 20-21

**PARAGUAY**  
OCTUBRE 24-25

**COLOMBIA**  
OCTUBRE 27-28

**Dr. Alfonso Lopez**

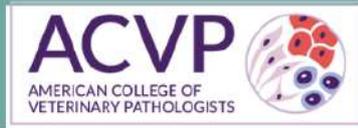
**LATIN AMERICAN ROAD SHOW**  
DAVIS-THOMPSON FOUNDATION  
2022

**RESERVA LA FECHA!**

# ACVP PRE-MEETING WORKSHOP



Davis-Thompson  
Foundation



November 12, 2022  
8:00am-5:00pm EDT  
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!

Registration informa-  
tion coming soon on  
ACVP website

# DT FOUNDATION SEMINARS IN LATIN AMERICA



## Upcoming Davis-Thompson Foundation Seminars in Latin America 2022

DATES	COUNTRY	SEMINAR	MAIN TOPICS	SPEAKERS	ORGANIZER	FORMAT
24-25 AUGUST	ARGENTINA	XVI ARGENTINEAN SEMINAR OF THE DTF	AVIAN PATHOLOGY, NEUROPATH, BOVINE DISEASES	GABRIEL SENTIES CUE, CARMEN JERRY, MARTI PUMAROLA BATLLE, MARIO BEDOLLA	ROCIO MARINI, ANA CANAL	HYBRID
22-23 AUGUST	URUGUAY	URUGUAYAN SEMINAR OF THE DTF	RESPIRATORY PATHOLOGY, NEUROPATH	CLAUDIO BARROS, FRANCISCO CARVALLO	JOSE MANUEL VERDES	HYBRID
SEPTEMBER TBC	MEXICO	IV MEXICAN SEMINAR OF THE DTF	WILDLIFE PATHOLOGY	MARIELA DIAZ, IGNACIO RANGEL, OSVALDO LOPEZ, ESPERANZA YANEZ, ALFREDO PEREZ EMILY MITCHELL, SARAH CLIFT, JOHAN STEYL	UBICELLO MARTIN OROZCO	HYBRID
20-21 OCTOBER	CHILE	VII CHILEAN MEEETING OF HISTOPATHOLOGY	PATHOLOGY OF FISH AND MOLLUSKS	CARLOS SANDOVAL, PAOLA BARATO, KARIN LOHRMAN	RODOLFO NALLAR	HYBRID
TBC	BRAZIL	TBC	TBC	TBC	TBC	TBC

# BSTP CORNER

## BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

### Notice of Future Meetings - March 2022



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

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

#### Continuing Professional Development:

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

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

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

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

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

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

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

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

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

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

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

For up-to-date information, keep checking:

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

# BSTP CORNER

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

5th – 14th July 2022	Virtual CES 6 – Male Reproductive System
10th & 11th November 2022	17th Annual Scientific Meeting & AGM (IN PERSON) Digital Pathology and Mouse Pathology Workshop
14th – 23rd March 2023	Virtual CES 7 – Infectious diseases of laboratory animals
4th – 13th 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 - Urinary System
July 2026	CES 14 - Lymphoid & Haematopoietic Systems
November 2026	41st Annual Scientific Meeting & AGM
March 2027	CES 15 - Musculoskeletal System & Skin

The order of the CES will depend on the availability of high quality speakers who are world experts in their particular field to present at the relevant meeting. Details of future meetings are correct at the time this booklet is generated, the BSTP will not be held responsible for any changes to dates, topics and venues of these meetings.

### Webinars

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

**BSTP webinars - In collaboration with the ESTP/SFPT/BSTP and ECVF/ESVP**  
6th Joint Webinar of the ESTP/SFPT/BSTP and ECVF/ESVP, Monday April 25th, 2022  
"Hot topics in Veterinary and Toxicologic Pathology"

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

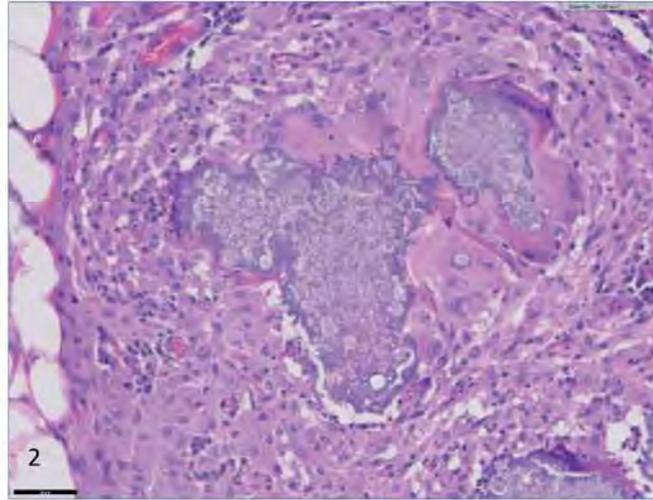
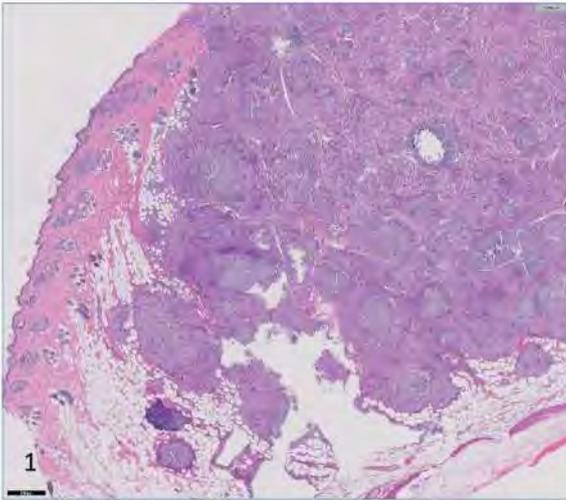
or visit the website – <http://www.bstp.org.uk/bstp-events/>

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

# IDEXX CASECONNEXX CORNER

**Signalment:** 1-year-old, female spayed, Persian cat

**Source/ History:** Suspect granuloma, three lesions right flank, left flank and abdomen, aspirates showed similar cell population



Figures 1. (2X magnification, H&E stain) and 2. (40X magnification, H&E stain) The mid to deep dermis and subcutis is expanded by nodular aggregates of fungal hyphae surrounded by predominately histiocytes, multinucleated giant cells, and neutrophils. The tangles of hyphae are approximately 3-5 micrometers in diameter, with variably parallel walls, frequent bulbous dilations, and occasional acute-angle branching and septations.

#### MICROSCOPIC DESCRIPTION:

Expanding and effacing the mid to deep dermis and subcutis is a nodular to coalescing inflammatory process. The nodules are composed of mats of hyphae embedded in eosinophilic to amphophilic material surrounded by many histiocytes with amphophilic to foamy cytoplasm, neutrophils, plasma cells, multinucleated giant cells, and fewer eosinophils. The hyphae are tangled and irregularly arranged, approximately 3-5 micrometers in diameter, with variably parallel walls, frequent bulbous dilations, and occasional acute-angle branching and septations. There is occasional mineralization in these nodular aggregates. In the overlying epidermis, there is mild to moderate regular epidermal hyperplasia. In the dermis, are mild numbers of perivascular mast cells, lymphocytes and plasma cells. Multifocally within hair follicles there are numerous fungal arthrospores and hyphae.

#### MICROSCOPIC INTERPRETATION:

Marked, locally extensive, nodular to coalescing, pyogranulomatous dermatitis and panniculitis with myriad fungal hyphae, and moderate numbers of intrafollicular fungal arthrospores and hyphae (consistent with a dermatophytic pseudomycetoma)

Margin assessment: Appears completely excised

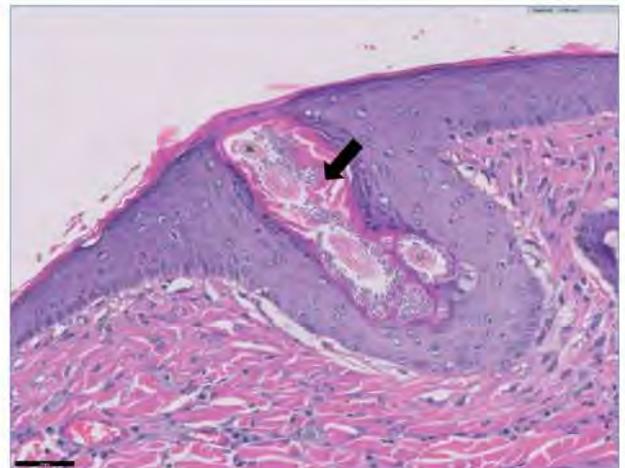


Figure 3. (40X magnification, H&E stain) Within the overlying epidermis there is mild to moderate regular epidermal hyperplasia. Within follicles, there are many intrafollicular hyphae and arthrospores (black arrow).

#### Comments:

Histologic examination revealed a locally extensive inflammatory process in the dermis and subcutis associated with many fungal hyphae. Within the overlying haired skin, there are intrafollicular arthrospores and hyphae. These histologic findings are consistent with a dermatophytic pseudomycetoma.

Dermatophytic pseudomycetomas are deep dermal to subcutaneous, uncommon, dermatophyte infections with nodules that frequently ulcerate and can form draining tracts. Dermatophytic pseudomycetoma is most commonly caused by *Microsporum canis* and mainly reported in Persian cats and to lesser extent Himalayan cats. These lesions occur more commonly on the head, neck, dorsum, tail, flanks or limbs. The pathogenesis of dermatophytic pseudomycetoma is unclear, and lesions have been reported to occur with or without a history of skin trauma. Feline dermatophytosis is a zoonotic disease.

References: Chang SC et al. Dermatophytic pseudomycetomas in four cats. *Vet Dermatol.* 2011 Apr;22(2):181-7; *Skin Diseases of the Dog and Cat*, 2nd ed. pp. 410-413. 2005; Mauldin, EA and Peters-Kennedy, J. Integumentary System. In Jubb, Kennedy, and Palmer's *Pathology of Domestic Animals*. Edited by: M. Grant Maxie Vol. 1, 6th Ed. 2016, Elsevier, pp. 649-653.

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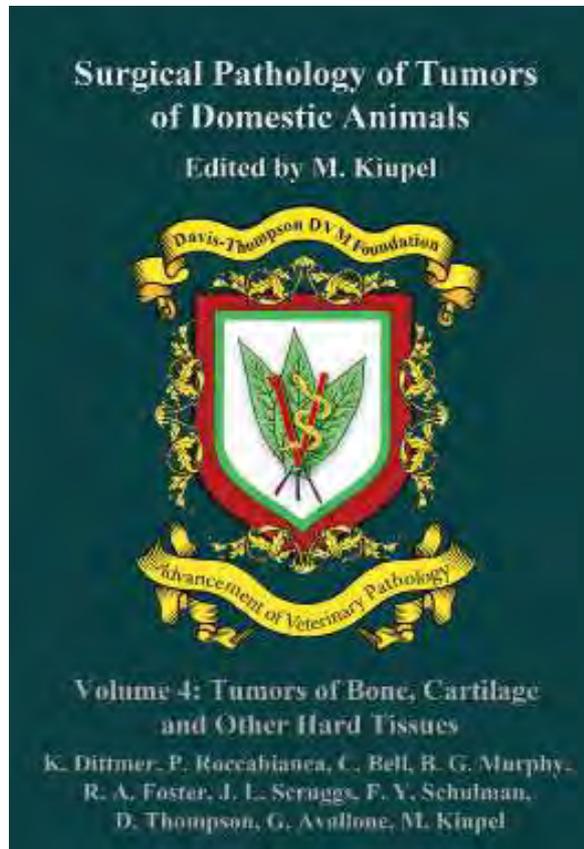
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# MISCELLANEOUS ANNOUNCEMENTS



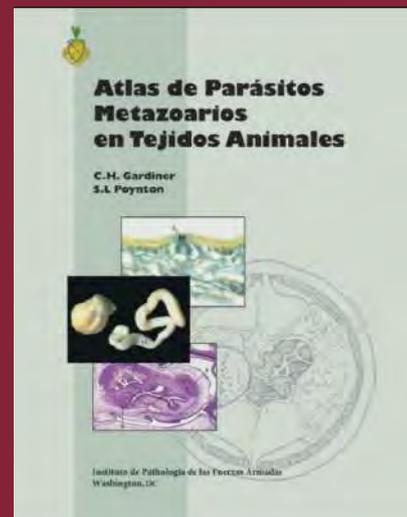
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