



**Davis-Thompson
Foundation**

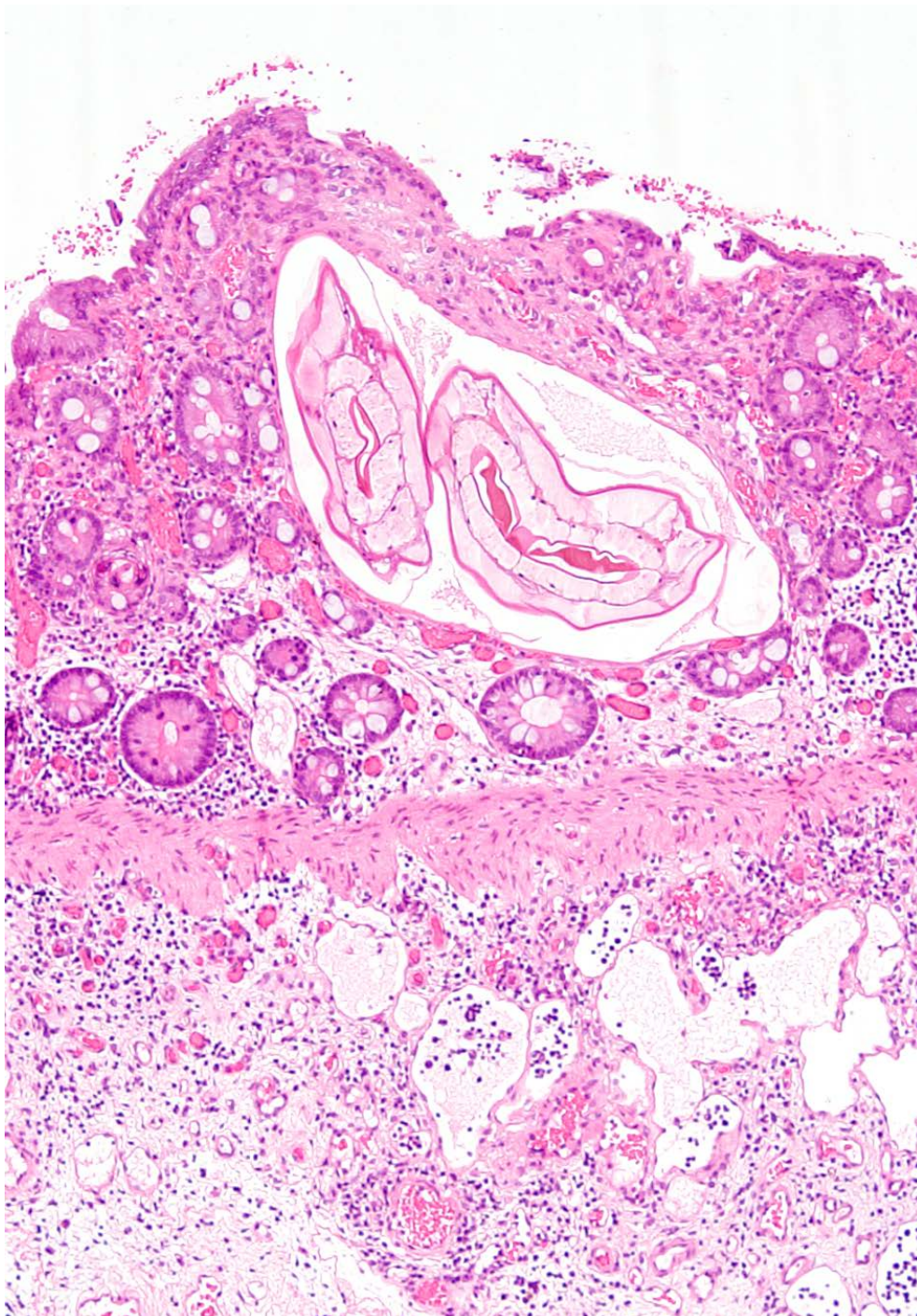
C.L. DAVIS/S.W. THOMPSON
DVM FOUNDATION

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

THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

September 2021

VOL. 51



INSIDE THIS ISSUE

Congratulations to our monthly cover photograph winners:
Panayiotis (Panos) Loukopoulos, Ghazanfar Abbas, Nicolas Galinelli, Jenni Bauquier, Charles Gauci, Simon Bailey, Abdul Jabbar

*Affiliated Institution: Melbourne Veterinary School, The University of Melbourne, Werribee, Victoria, Australia

Lesion Description: Cyathostomins embedded and encysted in the colonic lamina propria of a 16-year-old, female Welsh Pony.

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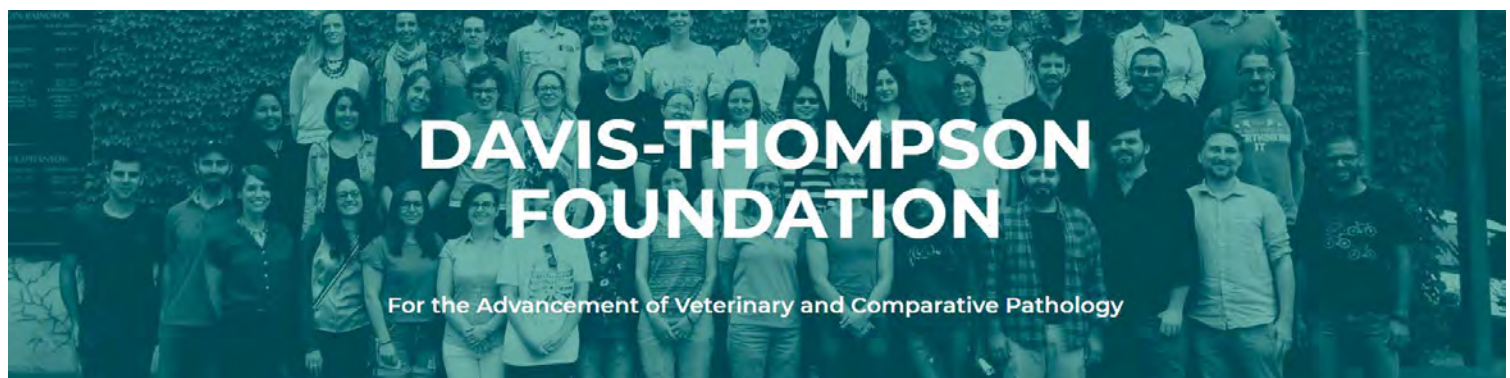
FOUNDATION ANNOUNCEMENTS

The Foundation would like to give a special thanks to Dr. Brad Bolon for his support and generous donation.


Monetary gifts greatly help the Foundation achieve its core mission of promoting the teaching of comparative pathology throughout the world.

Be sure to check out the new Davis-Thompson Foundation website at <https://davisthompsonfoundation.org/>

- Additional information for all upcoming events!
 - Easy event registration!
 - Access Noah's Arkive!
- Test your skills with the LCPG Diagnostic Exercises!
 - And so much more!




SEMINAR REVIEWS



Davis-Thompson
Foundation



Voices in Pathology: Women

Dr. Piper Treuting, Dr. Donna Bouley, Dr. Paige Carmichael,
Dr. Ana Alcaraz, Dr. Deepa Rao, Dr. Tiffany Lyle



"Fantastic. Many thanks to the presenters for their honesty and openness, and willingness to share their personal stories."

"Very interesting to see these powerful women and to learn of their struggles and how they found ways to persevere to become who they are today."



PATHOLOGY OF LAB ANIMALS (POLA)



2 - 6 AUGUST 2021

BY LUAN C. HENKER, UFRGS.

"Great presentations - well spoken presenters with beautiful images and concise organization of material!"

"Wonderful speakers and the presentations were exceptionally well organized!"

"Amazing, I learned a lot. Lectures were well-organized and full of important information."

Pituitary Tumors

- Most common tumors in some chronic rat studies (30-80%)
- Sprague-Dawley and Wistar
- Most arise from pars distalis
 - Chromophobe > acidophil or basophil
- Adenoma > adenocarcinoma
- May secrete prolactin
 - Gynecomastia
 - Galactorrhea



Image kindly provided by Dr Teresa L. Southard

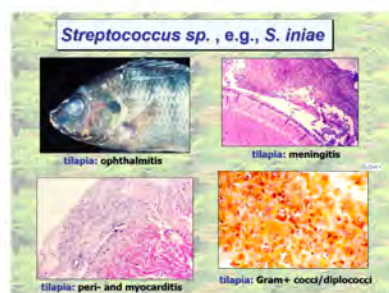


Image kindly provided by Dr Jeff Wolf

SEMINAR REVIEWS



TESTANDO SEU CONHECIMENTO EM PATOLOGIA OCULAR



Dra RACHEL NETO

18 DE AGOSTO, 2021

BY LUAN C. HENKER

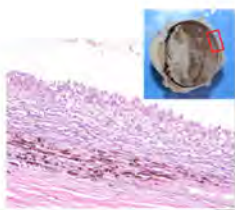
Neste seminário virtual, a Dra Rachel Neto compartilhou muitas informações importantes sobre anatomia, fisiologia e patologia ocular de animais domésticos e silvestres

A palestra foi bastante dinâmica, com muitos quizzes e muita interação dos participantes!

Participantes puderam rever ou aprender mais sobre inúmeras patologias oculares, especialmente condições menos comumente observadas na rotina anatomopatológica

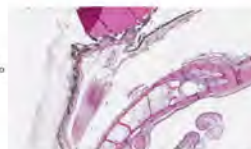
#6

Schnauzer miniatura.
Provável condição sistêmica:
A. Sarcoma histiocítico
B. Leishmaniose
C. Diabetes mellitus
D. Síndrome uveodermatológica



#8

Nome da condição:
A. Ciclodialise
B. Retinosquise
C. Recessão de ângulo
D. Ptíriois júbil



Forensic Pathology

**Dr. Adam Stern, Dr. Doris Miller, Dr. Elizabeth Watson, Dr. Adrienne Brundage,
Dr. Sean McDonough**



"An outstanding lineup of topics and speakers".

"Supercalifragilistic info and presenters! Go Microscopists and entomologists and imaging divas and pathophysiologists!"



"Excellent mix of topics illustrating the spectrum of forensic science."



DIAGNOSTIC EXERCISE



Question Sheet

Case #: **170** Month: **August** Year: **2021**

Contributors: Matías A. Dorsch, DVM, MSc and Federico Giannitti¹, DVM. Instituto Nacional de Investigación Agropecuaria (INIA), La Estanzuela, Colonia, Uruguay. ¹ fgiannitti@inia.org.uy.

Clinical History: 4-year-old Holstein cow with a history of unilateral (right side) facial paralysis, keratitis, drooping of the right ear, head tilt, circling, stiffness of the right limbs, tremors, and recumbency.

Necropsy Findings: The left side of the brainstem was swollen, multiple coalescing areas of the neuroparenchyma in this region were soft, tan-brownish, and slightly depressed on cut section (malacia).

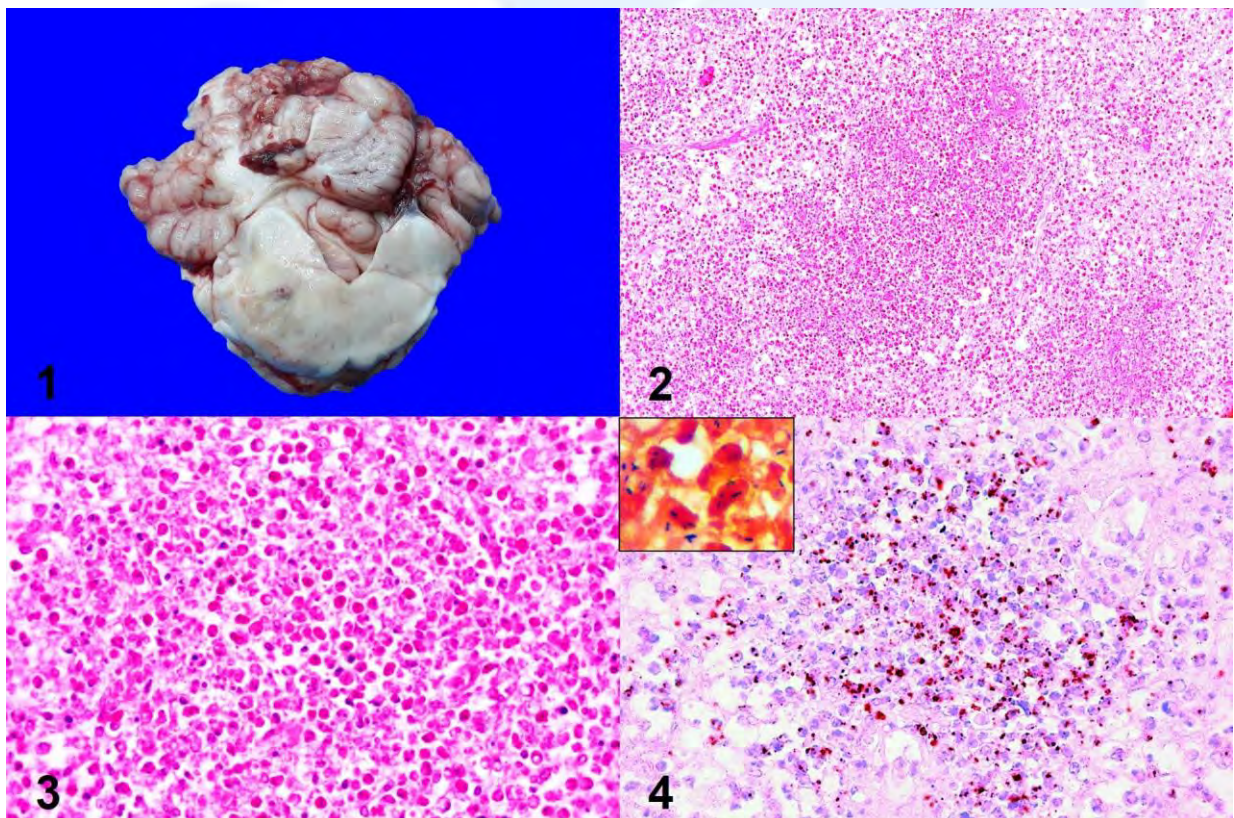


Figure 1: Cross section of the cerebellum and brainstem at the level of the pons depicting the lesions described as necropsy findings, caudal view. **Figure 2:** Brainstem, hematoxylin and eosin (H&E), 20x. **Figure 3:** Brainstem, H&E, 20x. **Figure 4:** Immunohistochemistry, 40x. *Inset:* Gram stain, 50x.



DIAGNOSTIC EXERCISE

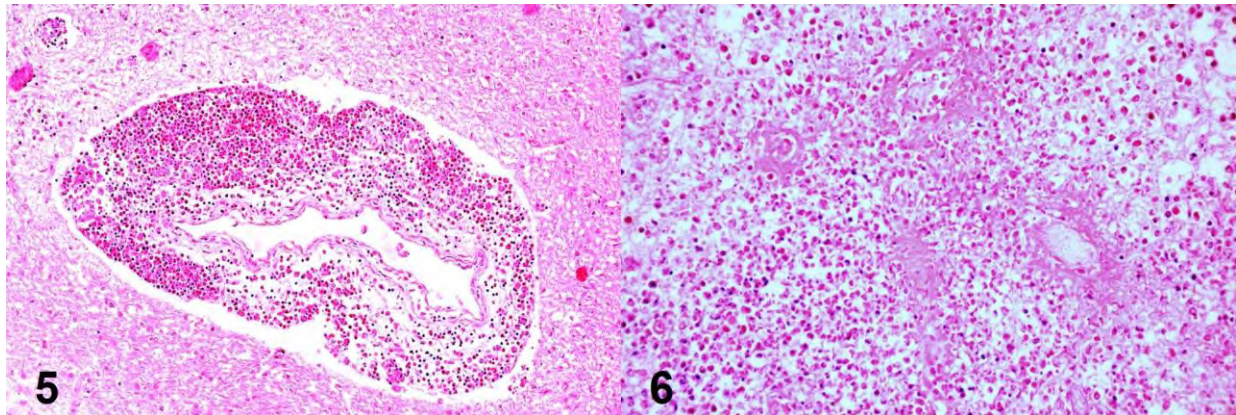


Figure 5: Brainstem, H&E, 20x. **Figure 6:** Brainstem, H&E, 40x.

Follow-up questions:

- (i) *Morphologic diagnosis?*
- (ii) *Differential diagnosis/es?*
- (iii) *Etiologic diagnosis?*
- (iv) *cause?*
- (v) *Name of the disease.*

*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).

Associate Editor for this Diagnostic Exercise: Ingeborg Langohr
Editor-in-chief: Claudio Barros

**Click here for
answers**

STANDARDIZING TUMOR PATHOLOGY, PART 1

Davis-Thompson Foundation

VCGP

ACVP
AMERICAN COLLEGE OF
VETERINARY PATHOLOGISTS

STANDARDIZING TUMOR PATHOLOGY REPORTING, PART 1

Tuesday, September 7, 2021

Dr. Don Meuten
NCSU

Dr. Mike Dark
U. of Florida

Dr. Taryn Donovan
AMC

Dr. Marc Aubreville
THI, Germany

Dr. Christof Bertram
Vetmed Uni,
Austria

Dr. Rebecca Smedley
Michigan State U.

Dr. Emily Corbin
JPC

CLICK HERE

Registration is
free but required

STANDARDIZING TUMOR PATHOLOGY, PART 2



Davis-Thompson Foundation

VCGP

ACVP
AMERICAN COLLEGE OF
VETERINARY PATHOLOGISTS

STANDARDIZING TUMOR PATHOLOGY REPORTING, PART 2

Wednesday, September 22, 2021

				
Dr. Don Meuten NCSU	Dr. Pompei Bolfa Ross U.	Dr. Mike Dark U. of Florida	Dr. Elisa Salas IDEXX	Dr. William Culp UC Davis
				
Dr. Ryan Cavanaugh Ross U.	Dr. Milan Milovancev Oregon State U.	Dr. Rob Foster U. Guelph	Dr. Michelle Oblak U. Guelph	Dr. Richard Luong IDEXX

Schedule (All times in CDT):

- 9:00-9:10 am Introduction (P. Bolfa/J. Koehler)
- 9:10-10:00 am Why standardize? (D. Meuten)
- 10:00-10:30 am Lymphovascular invasion (R. Luong, E. Salas)
- 10:45-11:45 am Synoptic reporting (M. Dark, B. Culp)
- 12:45-1:15 pm Clinical outcome (P. Bolfa, R. Cavanaugh)
- 1:15-2:15 pm Margins and fascial planes (M. Milovancev, R. Foster)
- 2:30-3:30 pm Q&A and panel discussion (all panelists as available)
- 3:30-4:00 pm Future directions (all panelists as available)

[CLICK HERE](#)

Registration is free but required

SPANISH SEMINAR SERIES

Spanish Seminar Series



Davis-Thompson
Foundation

8/6/2021 Casos practicos de patologia aviar



Natàlia Majó
(Universitat Autònoma
de Barcelona)

9/3/2021 Enfermedades de conejos



Juan Manuel Corpa Arenas
(Universidad CEU Cardenal
Herrera)

10/1/2021 Neumonía intersticial en animales: Definiciones, causas y mecanismos



Francisco Carvalho
(Virginia Tech)

11/12/2021 Patologia macroscopica de bovinos



Mario Bedolla
(Universidad Autonoma
de Mexico)

12/3/2021 Enfermedades de cetaceos



Antonio Fernandez
Universidad de las Palmas
de Gran Canaria,
Islas Canarias

12/10/2021 Patología de lagomorfos con especial énfasis en la enfermedad vírica hemorrágica



Javier Asin
(UC-Davis)

- All seminars in Spanish

Click here to
register for individual
seminars

VOICES IN PATHOLOGY: LGBTQ+



Davis-Thompson
Foundation

Voices in Pathology: LGBTQIA+

Friday, September 10, 2021

11am-1pm CDT



Jose Vilches-Moure,
DVM, PhD, DACVP



Kali Holder,
DVM, DACVP



Francisco Conrado,
DVM, MSc, DACVP



Anne Barger,
DVM, DACVP



Sue Knoblaugh,
DVM, DACVP

[REGISTER HERE](#)

MOUSE PATHOLOGY

**Davis-Thompson Foundation
European Division Symposium**



MOUSE PATHOLOGY

13-14 September 2021



VIRTUAL MEETING



Dr. Cory Brayton



Dr. Denise Imai

**Early bird rate €200 until 31st July,
€250 from 1st August, 2021**

For more information and registration:

<https://www.eventbrite.co.uk/e/davis-thompson-foundation-european-symposium-2021-tickets-140987827387>

2021 NORTHEASTERN VETERINARY PATHOLOGY CONFERENCE

2021 Northeastern Veterinary
Pathology Conference
September 17th - 18th



**VIRTUAL
SEMINAR**

Guest speaker

Dr. Jesse Hostetter
University of Georgia



Guest speaker

Dr. Paco Uzal
University of California



CASE PRESENTATIONS

EMPHASIS ON GASTROINTESTINAL CASES

Register at https://us02web.zoom.us/webinar/register/WN_8E-JaPI-rQ-aMEorkEXMhMg

If you would like to present a case, please contact course director Dr. Sarah Cudd
at skcuddvdm@gmail.com ASAP to determine availability

ANIMAL FORENSICS SEMINAR

Free Friday Seminars

Friday, September 17, 2021

11am-12:30pm CDT



Davis-Thompson
Foundation

Animal Forensics- a Veterinary Pathologist's and a Lawyer's Approach



JOHN E. COOPER,
DTVM, FRCPath,
FSB CBiol, FRCVS,
DECVP

MARGARET E. COOPER,
LLB, FLS

**REGISTER
HERE**

SEMINAR SERIES IN PORTUGUESE



Davis-Thompson
Foundation



Seminar Series in Portuguese

17h-18:30 BRT



18/08

REGISTER
HERE

Rachel Neto,

DVM, MSc, DACVP

Testando seu conhecimento
em patologia ocular



15/09

REGISTER
HERE

Felipe Pierezan,

DVM, MSc, PhD, DACVP

Patologia de peixes



27/10

REGISTER
HERE

Adelina Gama,

DVM, MSc, PhD

Patologia mamária



17/11

REGISTER
HERE

Renata Assis Casagrande,

DVM, MSc, PhD

Patologia de aves selvagens e ornamentais



15/12

REGISTER
HERE

Silvia França Baêtae,

DVM, MSc, PhD

Patologia de Felinos

Click here to
register for individual
seminars

SOUTHCENTRAL DIVISION MEETING



Davis-Thompson
Foundation

HYBRID FORMAT!

Southcentral Division Meeting

October 1-2, 2021

Texas A&M Galveston Campus



Invited speaker:

Dr. Fabio Del Piero (LSU)

Pathology of Viral Intestinal Diseases

**case reports!
invited speaker!
group lunch & dinner!**

**Click here to
register**

AAZV ZOO & WILDLIFE PATHOLOGY WORKSHOP

**AAZV 28th Annual
Zoo & Wildlife Pathology workshop 2021**
Sponsored by the Davis-Thompson Foundation
Sunday, October 10, 2021

Keynote speaker:
9 am - 6 pm*
**Emerging Disease Preparedness,
Diagnostics, and Response**

Dr. Jana Ritter
Centers for Diseases Control and Prevention (CDC)

Instructors:

Dr. Dalen Agnew
MSU

Dr. Rachel Burns
San Diego Zoo Wildlife Alliance

- This seminar is preapproved by the ACVP Maintenance of Certification (MOC) Committee for 4 credits
- This program has been submitted (but is not yet approved) for 8 hours of continuing education credit in jurisdictions which recognize RACE approval.

*all times in EDT

<https://www.aazv.org/page/2021AAZVConference>

ARGENTINIAN MEETING (RAPAVE)



Davis-Thompson
Foundation



XII ARGENTINIAN MEETING OF VETERINARY PATHOLOGY 14° Seminar C.L. Davis-S.W Thompson Foundation Monday, October 11 - Thursday, October 14



Dr. Francisco Uzal
UC Davis

**Abortion in ruminants and equines.
Neonatal diarrhea in calf.
Pathology and diagnosis**



Dr. Carlos Campero
INTA Balcarce, Argentina

**Musculoskeletal and genital
disorders in bulls**



Dr. Valentín Pérez
University of León, Spain

**Chronic and cachectizing
diseases in small ruminants.**



Dr. Alfonso Lopez Mayagoitia
University of Prince Edward Island,
Canada

Respiratory diseases in bovines

*-This seminar is preapproved by the ACVP Maintenance
of Certification (MOC) Committee for 8 credits

** all times in ART

For more information contact rapave2021inta@gmail.com

Registration FREE

Lectures in
Spanish

<http://intrabalc.inta.gob.ar/RAPAVE>

AAVLD TRANSBOUNDARY DISEASES

21st AAVLD/Davis-Thompson Foundation Diagnostic Pathology Symposium

**Pathology and diagnosis of
transboundary diseases**
Saturday, October 23, 2021



Registration fees:*
Virtual platform: \$50
In person: \$100

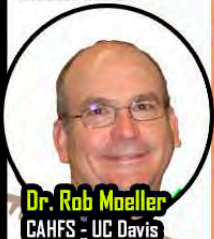


8:10 am - 9 am**

**African swine fever,
classical swine fever**

9 am - 10 am

Foot-and-mouth disease



10:30 am - 12 pm

**CBPP and contagious caprine
pleuropneumonia, sheep and
goat pox, lumpy skin disease**

1 pm - 2 pm

**African horse sickness,
Rift valley fever, Nairobi sheep
disease, screwworms**

2 pm - 3 pm

**Heartwater, peste
des petits ruminants,
rinderpest**



3:30 am - 5 pm

**Newcastle disease
and avian influenza**

***-This seminar is preapproved by the ACVP Maintenance of
Certification (MOC) Committee for 4 credits**
**-This program has been submitted (but is not yet approved)
for 8 hours of continuing education credit in jurisdictions
which recognize RACE approval.**
**** all times in US Mountain Time (8 am - 5 pm)**

<https://davisthompsonfoundation.regfox.com/2021aavld>

The Davis-Thompson Foundation is a volunteer-run, non-profit, registered tax-exempt, donative charity supported by the public.
100% of revenue generated by registration supports our mission.

2021 ACVP PRE-CONFERENCE WORKSHOP

NEW DATES AND TIMES!

ACVP
AMERICAN COLLEGE OF
VETERINARY PATHOLOGISTS



Davis-Thompson
Foundation



2021 **Virtual** ACVP Pre-Meeting Workshop

Soft Tissue Tumors are "Hard": Current Perspectives



Dr. Paola Roccabianca



Dr. Giancarlo Avallone



Dr. F. Yvonne Schulman



Guest Speaker

Dr. Brian Summers



Speakers will present material from the third volume of the series, **Surgical Pathology of Tumors of Domestic Animals: Tumors of Soft Tissues**, with a special guest lecture by Dr. Brian Summers.

Date: Friday, October 29, 2021 8:00 am-12:30 pm (CDT)
Saturday, October 30, 2021 8:00 am-12:00 pm (CDT)

Registration will be forthcoming on the ACVP website

BSTP CORNER



BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

The 36th Annual Scientific Meeting of the BSTP –
Pathology of mice with human immune systems (HIS mice)
Wednesday 10th – Friday 12th November 2021
12.30 – 16.30 (GMT+0, London/UCT+0)

The 36th ASM will be held as a virtual event using Zoom on the afternoons of Wednesday 10th, Thursday 11th and Friday 12th November 2021, from 12.30 – 16.30 (GMT+0, London/UCT+0) each day.

Registration for this meeting is still open, with numbers limited to a maximum of 75 delegates - registration will close at midnight on 22nd October 2021.

The BSTP's 36th Annual Scientific Meeting will cover the topic of pathology of mice with human immune systems (HIS mice).

Immunodeficient mice reconstituted with a human immune system are increasingly used for modelling the human immune compartment in numerous preclinical applications, such as adoptive cell therapy and immuno-oncology studies. With the advent of new Advanced Therapy Medicinal Products, humanised mice are likely to become more and more a key component of efficacy and safety assessment in preclinical programmes, including GLP studies. However, limited information is available concerning the morphological aspects of human cell engraftment and the spectrum of spontaneous and experimentally-induced histopathological lesions occurring in these mice.

Working with the *Pathological Society of Great Britain and Ireland* the meeting will cover the main features of the different humanised mouse platforms; their experimental applications in drug development, oncology and gene and cell therapies; specific safety and regulatory considerations; and future promise and remaining challenges.

The Annual General Meeting of the BSTP will be held as a separate meeting on Friday 26th November 2021 – <http://www.bstp.org.uk/events/bstp-annual-general-meeting/>

Sponsorship Opportunities

As a small organisation we feel that by providing financial sponsorship for this meeting it will allow the society to continue organising high quality events for a diverse group of toxicological and experimental pathologists. For £250 your logo (with a direct link to your company) will appear on the BSTP website and on all delegate materials. Please contact the BSTP at bstpoffice@aol.com more information.

IMPORTANT DEADLINES

- ✓ Applications for the bursary will close at midnight on 24th September 2021
- ✓ Early bird registration closes at midnight on 30th September 2021
- ✓ Registration will close at midnight on 22nd October 2021

So, if you are looking for some high quality CPD and would you like to broaden your understanding on the pathology of mice with a human immune system then this is the meeting for you.

We hope to see you in November!



BSTP CORNER



Delegate Information:

Access to the downloadable delegate materials and Zoom login information will be provided up to one week in advance of the meeting.

Continuing Professional Development:

Royal Society of Biology CPD credits will be applied for.

Approximately 8.5 hours of educational activity will be recorded on Attendance Certificates. For those delegates who wish to self-accredit for CPD, proof of attendance should be retained for this purpose.

Registration Fees:

Registration fees are for full attendance (3 afternoons) and no discount will be given for part attendance.

Registration Fees	Early Registration Fee – up to 30th September 2021	Standard Registration Fee – after 30th September 2021
BSTP Member	£170.00	£210.00
Non-Member	£220.00	£260.00
Trainee/Early Career Pathologists *	£100.00	£140.00
BSTP Member Group Fee #	£150/person	£190/person
Non-Member Group Fee #	£200/person	£240/person

* A letter/email from a Head of Department confirming status must accompany the registration form
3 or more from the same company, completed registration forms should be emailed together

Payment Methods:

All bookings for the meeting must be paid in full by 22nd October 2021. You can pay by Bank Giro Credit/Faster Payment/Bill Payment/Bank Transfer/International Payment, or if you prefer to pay by credit card, please tick the relevant box on the registration form or contact the BSTP Secretariat for more details.

Cancellation:

All requests for cancellations to bookings must be received in writing by 30th September 2021. Refund requests will incur a £50 processing fee. Refund requests received after 30th September 2021 will not be processed.

Replacements:

Substitutions can be made at any time up to 22nd October 2021.

BSTP Booking Terms and Conditions:

To registering for this event, you must read and agree to the BSTP Booking Terms and Conditions.

By registering for this event, you are agreeing to the [BSTP Privacy Policy](#). You may opt in or out of email communications from the BSTP at any time.

BSTP 36th ASM Timelines:

17th June 2021

24th September 2021

30th September 2021

Up to 30th September 2021

After 30th September 2021

22nd October 2021

Registration opened

Deadline for bursary applications

Early registration fee ends

Cancellations can be made

No refund on cancellations

Registration closes

Other BSTP events:

The latest edition of BSTP's [Guide to Educational Activities](#) is available on the BSTP Website, or to find out more about other events organised by the BSTP visit <http://www.bstp.org.uk/events/bstp-events/>

BSTP CORNER



**The 36th Annual Scientific Meeting of the BSTP –
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Royal Society of Biology CPD credits have been applied for.
Approximately 8.5 hours of educational activity will be recorded on Attendance Certificates.

PROVISIONAL PROGRAMME

Wednesday 10th November 2021	
12.30 - 12.45	SOCIAL BREAKOUT SESSION
12.45 - 13.00	WELCOME AND INTRODUCTION BY THE PRESIDENT OF THE BSTP <i>Elizabeth McInnes</i>
DAY 1	Generation of HIS mice: available models and standardisation
13.00 - 13.30	HIS mice in biomedical research: Challenges and opportunities <i>Christian Muenz, University of Zurich, Switzerland</i>
13.30 - 14.00	Immunodeficient mice lines optimised for humanisation: NSG, NOG... - focus on pathology <i>Cory Brayton, Johns Hopkins University, USA</i>
14.00 - 14.30	Comparison of human innate and adaptive immune reconstitution across different HIS models <i>Kourosh Saeb-Parsy, University of Cambridge, UK</i>
14.30 - 15.00	VIRTUAL COFFEE BREAK
15.00 - 15.30	HIS mouse reporting standards <i>Janell Richardson, Taconic, USA</i>
15.30 - 16.00	Flow cytometry applications to investigate engraftment and immune cell response in HIS mice <i>Speaker to be confirmed</i>
16.00 - 16.30	Multiplexing immunohistochemistry and imaging mass spectrometry applied to the human and murine immune systems <i>Richard Goodwin, AstraZeneca, UK</i>

You are advised that the programme timings, lecture title and speakers may be subject to change without notice.



BSTP CORNER



Thursday 11th November 2021	
12.30 - 13.00	SOCIAL BREAKOUT SESSION
DAY 2	HIS mouse pathology
13.00 - 13.30	Graft-versus-host disease (GvHD) in NSG mice transplanted with CD34+ human hematopoietic stem cells <i>Speaker to be confirmed</i>
13.30 - 14.00	Histopathological features of NSG-SGM3 mice <i>Laura Janke, St. Jude Children's Research Hospital, USA</i>
14.00 - 14.30	GvHD in humanised mice and its use as a marker of immune stimulation in preclinical studies <i>Jean-Martin Lapointe, AstraZeneca, UK</i>
14.30 - 15.00	VIRTUAL COFFEE BREAK
15.00 - 15.30	Morphological features of GvHD in patients <i>Speaker to be confirmed</i>
15.30 - 16.30	Round table/share knowledge: Pretransplant conditioning-induced pathology (chemical and radiation conditioning)

Friday 12th November 2021	
12.30 - 13.00	SOCIAL BREAKOUT SESSION
DAY 3	Preclinical applications of HIS mice
13.00 - 13.30	Application of humanized mouse models in drug discovery <i>Johannes Sam, Roche, Switzerland</i>
13.30 - 14.00	Exploring HIS mice as potential preclinical safety model <i>Sandrine Vessillier, NIBSC, UK</i>
14.00 - 14.30	Regulatory aspects concerning the use of HIS mice <i>Kristina Howard, FDA, USA</i>
14.30 - 15.00	VIRTUAL COFFEE BREAK
15.00 - 15.30	Humanised mice in preclinical immuno-oncology <i>Janell Richardson, Taconic, USA</i>
15.30 - 16.00	Modelling human malignancies in vivo <i>Speaker to be confirmed</i>
16.00 - 16.15	CLOSING REMARKS

You are advised that the programme timings, lecture title and speakers may be subject to change without notice.



IDEXX CASECONNEX CORNER

Signalment: 6-year-old, male neutered, ferret (not otherwise specified).

Source/ History: Mass on tip of tail. Has been present for 3 months, slow growth. Hairless, slightly ulcerated.

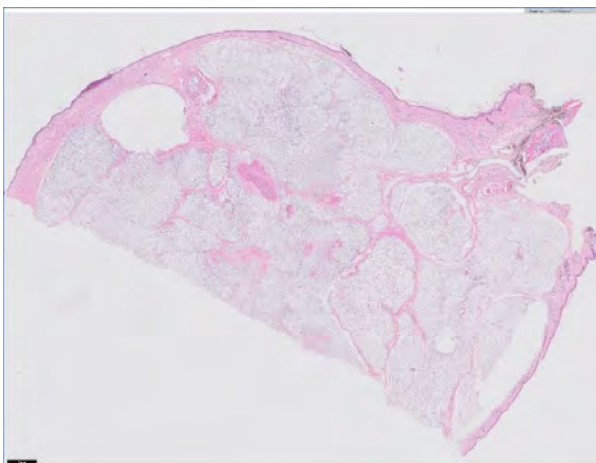


Figure 1. (1X magnification, H&E stain) Tail mass. A well-demarcated, unencapsulated, multinodular neoplasm expands the dermis and subcutis.

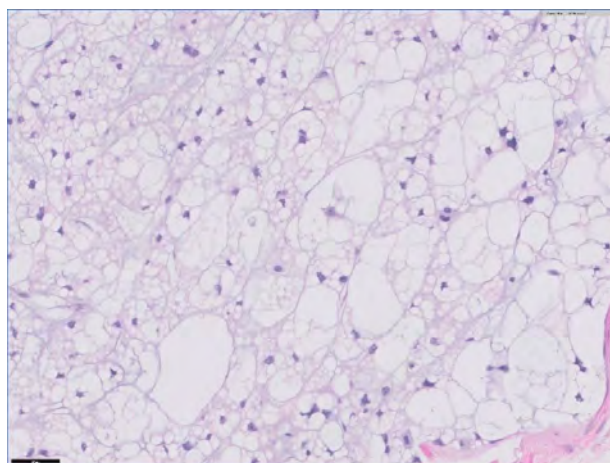


Figure 2. (40X magnification, H&E stain) Neoplastic cells are polygonal, with distinct cell borders and moderate to abundant, amphophilic to clear, vacuolated cytoplasm (physaliferous cells).

Microscopic Description:

Expanding the subcutis and overlying dermis is a well-demarcated, unencapsulated, multinodular, expansile mass composed of neoplastic polygonal to spindloid physaliferous cells arranged in lobules and embedded within a mucinous stroma. Neoplastic cells are polygonal with distinct cell borders and moderate to abundant amphophilic to clear vacuolated cytoplasm. Nuclei are round to ovoid and often peripheralized with finely stippled chromatin and often one small variably distinct nucleolus. There is mild to moderate anisocytosis and anisokaryosis. Multifocally, there are variably sized foci and islands of cartilage and variably mineralized woven and lamellar bone occasionally lined by osteoblasts and few osteoclasts in Howship's lacunae. The overlying epidermis is segmentally eroded to ulcerated and covered by a serocellular crust.

Microscopic Interpretation:

Tail: Chordoma

Mitotic count: 0 in ten high power fields (total 2.37 mm²)

Vascular/lymphatic invasion: Not observed

Margin assessment: Appears completely excised with a closest proximal margin of 0.7 mm composed of fibrocollagenous connective tissue

Comments:

Chordomas are the most common neoplasm of the musculoskeletal system of the ferret and are thought to arise from remnants of fetal notochord. They are rarely diagnosed in other species. Chordomas are typically slow growing, locally expansile/aggressive neoplasms that arise in or adjacent to vertebra. They are most commonly seen as club-like swellings at the tip of the tail, though can occur in the cervical spinal column or rarely at sites of the spinal column. Chordomas are considered potentially malignant; however, only rare cases of local and distant skin metastases have been reported in the ferret. There is also one report of metastasis to the lung from a cervical chordoma.

References: Dunn, DG. A histomorphologic and immunohistochemical study of chordoma in twenty ferrets (*Mustela putorius furo*). *Vet Pathol.* 1991;28:467-473. Frohlich J and Donovan T. Cervical chordoma in a domestic ferret (*Mustela putorius furo*) with pulmonary metastasis. *J Vet Diagn Invest.* 2015;27(5):656-659; Munday JS et al. Suspected metastatic coccygeal chordoma in a ferret (*Mustela putorius furo*). *J Vet Diagn Invest.* 2004;16(5):454-8

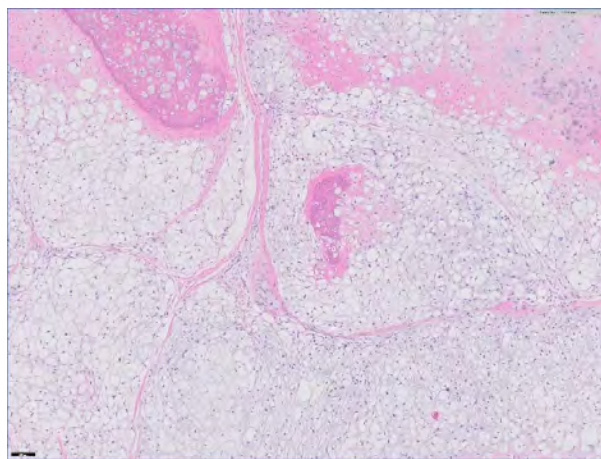


Figure 3. (10X magnification, H&E stain) Neoplastic physaliferous cells are arranged in lobules with multifocal foci and islands of cartilage and bone.

Case by
Joseph Malatos, DVM, DACVP

IDEXX

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