



**Davis-Thompson  
Foundation**

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

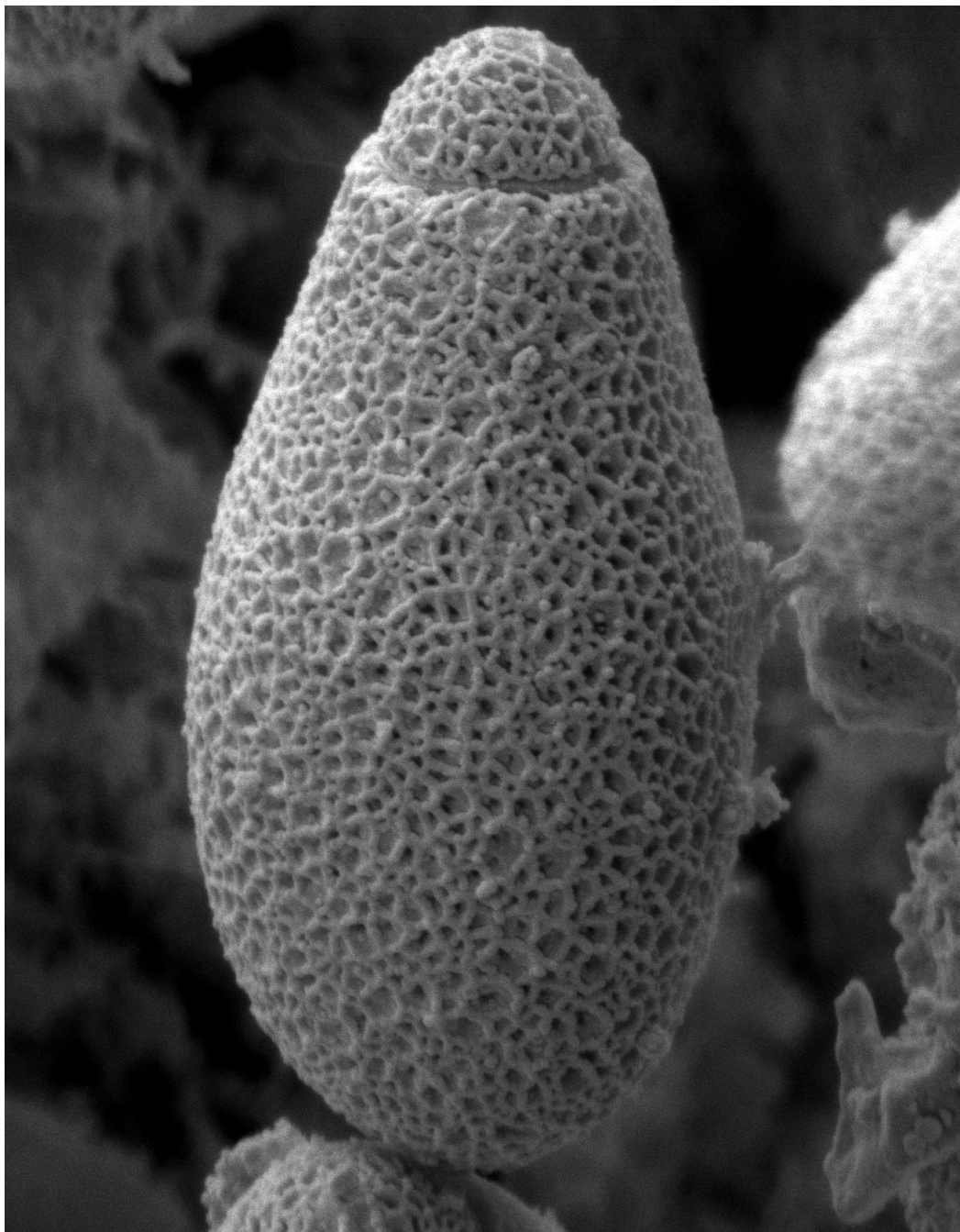
A tax-exempt, donative,  
publicly-supported charity  
For the advancement of veterinary  
and comparative pathology

# THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

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August 2021

VOL. 51



# INSIDE THIS ISSUE

**Congratulations to our monthly cover photograph winners:  
Andressa Maria Rorato Nascimento de Matos, Mário Roberto  
Castro Meira Filho, Admilton Gonçalves de Oliveira, Camila Domit,  
Ana Paula Frederico Rodrigues Loureiro Bracarense**

**\*Affiliated Institution: Universidade Estadual de Londrina – UEL, Londrina, PR, Brasil**

**Diagnosis: Duodenum: Digenean operculated egg (*Renicola sloanei*)**

Scanning electron microscopy of a digenean *Renicola sloanei* operculated egg sampled from the kidney of a Manx shearwater (*Puffinus puffinus*) (Matos et al., 2019). At the aperture, the “little lid” (operculum) is defined by the circumferential collar (opercular shoulder).

3	Foundation Announcements
5	Seminar Reviews
8	Diagnostic Exercise
11	Chilean Seminar
12	Poultry Diseases Seminar
13	Uruguayan seminar
14	Mouse Pathology
15	2021 ACVP Pre-Conference Workshop
16	2021 Northeastern Veterinary Pathology Conference
17	Zoo & Wildlife Workshop AAZV
18	Argentinian Meeting (RAPAVE)
19	Transboundary Diseases AAVLD
20	BSTP Corner
23	IDEXX CaseConnexx Corner
25	Miscellaneous Announcements
27	Table of Upcoming Events

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SIMKO, ELEMIR

SLAOUI, MOHAMED

STROMBERG, PAUL

ZADOK, RUBEN

# FOUNDATION ANNOUNCEMENTS

## The Foundation has a new website!

We are very proud to announce that in July we launched our completely redesigned website, which was brought to life by the talented dream team of punk rock marketers at Malcontent Marketing ([www.malcontent.agency](http://www.malcontent.agency)) along with significant efforts from our executive board, our marketing and webinar committee chairs, and our IT director.

The new website will serve as our central organizing point for upcoming events and registration, news and information, image banks, diagnostic exercises, membership, and more. Love your social media? Don't worry, we will still have a presence there! Love the pdf newsletter? Don't worry, we'll still be making one!

So go to **[www.davisthompsonfoundation.org](http://www.davisthompsonfoundation.org)** and give it a test drive! Check out the events calendar, read about our leadership, and see what's happening. Be patient in these first few weeks as we work out any bugs in functionality and get more and more content added.

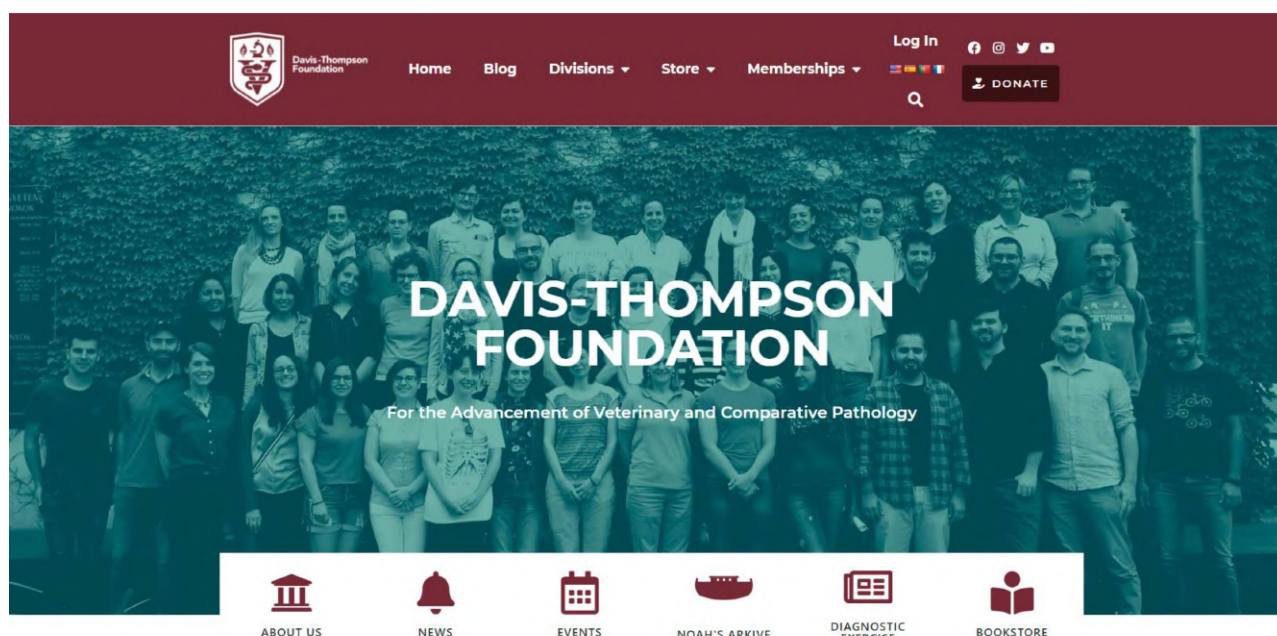
Let us know what you think! Don't forget to check out our bookstore, where in addition to books you can get newly designed t-shirts and mugs: **<https://davisthompsonfoundation.org/product-category/foundation-promotional-merchandise/>**

Welcome to our new "home"!

Francisco (Paco) Uzal, Chief Executive Officer

Jey Koehler, President

Bruce Williams, Chief Financial Officer





# FOUNDATION ANNOUNCEMENTS



## UPCOMING CHANGES TO OUR YOUTUBE CHANNEL



At Davis-Thompson Foundation, we strive to bring you relevant, current information.

With that in mind, beginning July 31st, we will be removing Free-Friday webinars and Full-day webinars that are older than 6 months.

Go re-watch your favorites!

## FULL-DAY WEBINAR NEW STRUCTURE

In order to accommodate all time zones, from May forward, Full-Day webinar presentations that receive authorization for rebroadcast will be available for 14 days beginning 24 hours following the live broadcast, for registrants only.



We are so happy with our refreshed logo that we wanted to share the happy vibes by giving out a registration to the next full-day webinar to our Facebook Group members, supporters of our mission, that are using our new Facebook frame.

We'll keep this vibe going through summer! Winner will be randomly selected at random times preceding the webinar and announced on Facebook on Fridays happy hour time!

Come back on Fridays to learn if you are the lucky winner of a registration for the following Tuesday, full-day webinar!

Frames can be found on comments

Thank you for your support!

HAPPY VIBES



Davis-Thompson T-shirts!

\$20 + shipping

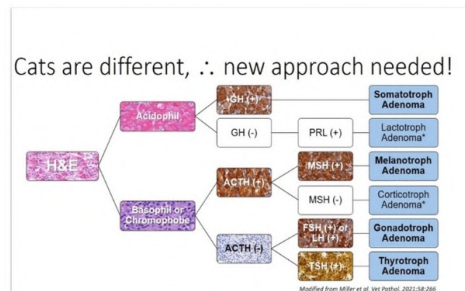
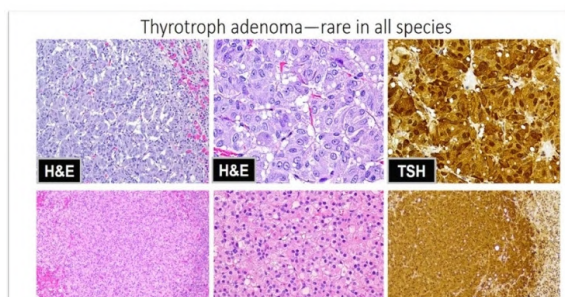
# SEMINAR REVIEWS

## It's the pits!

### Pituitary pathology in the times of hypophysectomy

July 9th 2021

By Luan C. Henker, UFRGS.



**Dr Margaret (Peg) Miller**  
shared valuable  
information and important  
insights on Pituitary  
Pathology, with focus on  
pituitary adenoma in dogs  
and cats

The lecture was beautifully  
illustrated, with impressive  
histology and IHC pictures  
of pituitary lesions

The section of Case studies  
was a hit, and attendees  
were really engaged!

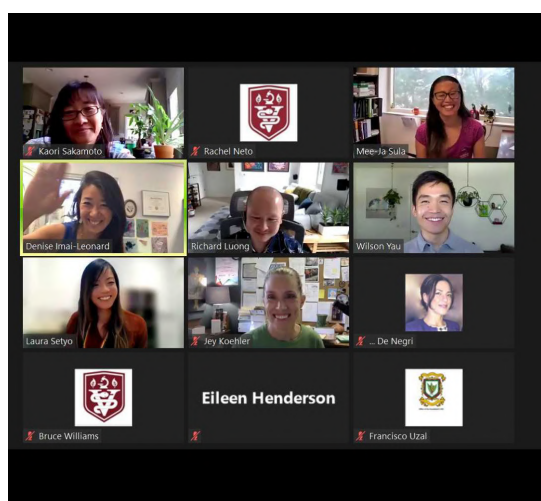


# SEMINAR REVIEWS

## Participant's Review of Asian American Voices in Pathology

By Laura Setyo BVSc (Hons), MRCVS, MANZCVS (Veterinary Pathology), Diplomate ACVP

The Asian American Voices in Pathology webinar was an event close to my heart. As an Asian Australian living in England, I am always eager to hear the stories of likeminded souls and to tap into their experiences, beliefs, and values systems. This event served to truly highlight the kaleidoscope of all our voices. It was a truly enlightening discussion which served to open mental gateways and allowed people the opportunity to share experiences. Ultimately, we recognised that we need to stand strong with each other to eventuate real change. Panellists touched on the abundance mindset – that there is enough space for all our voices and that one story doesn't overwrite another. They discussed that it is the fear of stagnation and hope for change that is what needs to drive us, and that we need to run towards our better futures. We are here to create spaces that allow us to all be visible, to take up space, and to be more than just the "other." Implicit biases, and the need to challenge these, including the model minority myth, was discussed. This event demonstrated how much each of us can bring to the table if we are given the opportunity and that we need to keep giving that opportunity to others. The Davis-Thompson Foundation has done a truly valuable thing by allowing their platform to be a podium where diverse individuals can stand proud, and to be a place where inclusive voices within pathology are able to be heard.





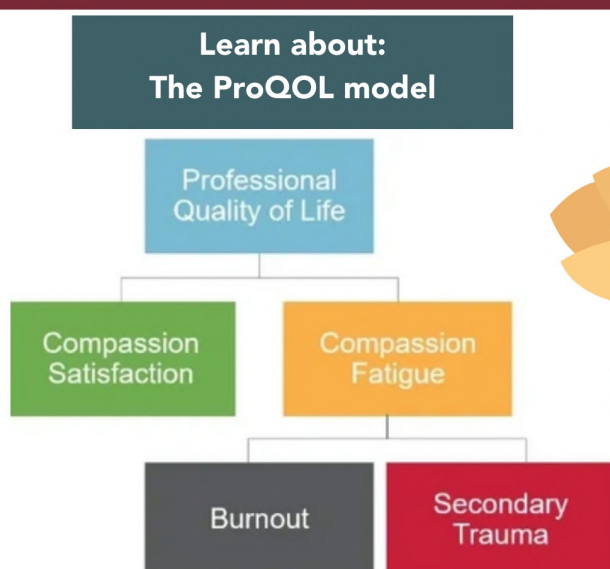
# SEMINAR REVIEWS



## Caring for the Caregivers

Participant's Review by Dr Laura Setyo

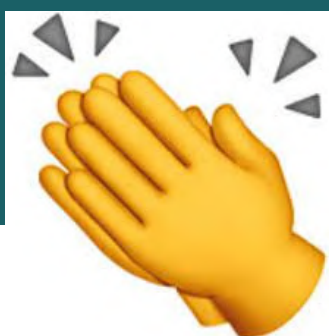
Susan Harris, 11/06/2021



"Compassion fatigue is a broadly defined concept that can include emotional, physical, and spiritual distress in those providing care to another."

"If you want others to be happy, practice compassion. If you want to be happy, practice compassion."

# Thanks to all of our fabulous speakers!





## DIAGNOSTIC EXERCISE

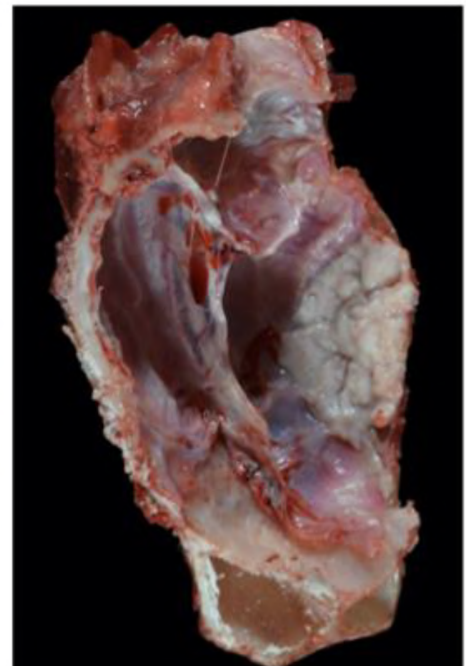
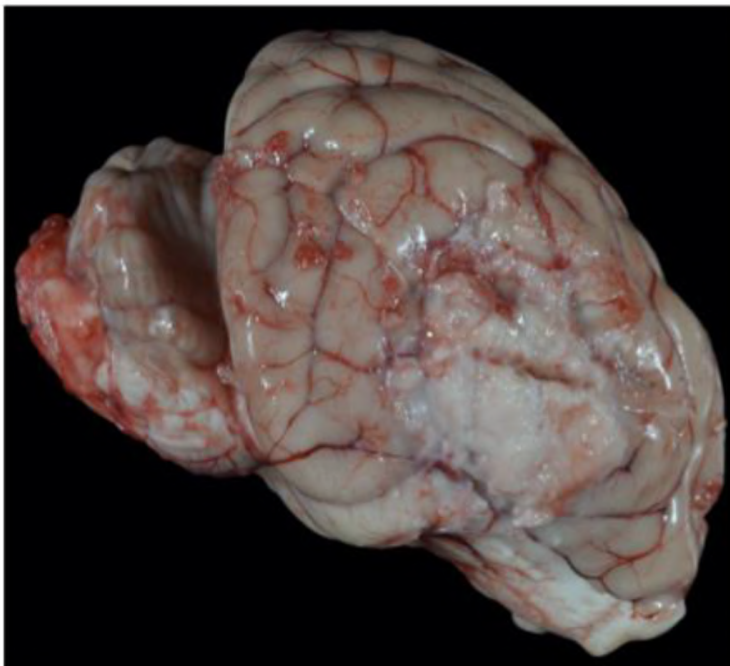


Case #: **166** Month: **June** Year: **2021**

**Contributors:** Marisa Maglaty DVM, Kevin D. Woolard DVM, PhD, DIP ACVP  
[Email: [mamaglaty@ucdavis.edu](mailto:mamaglaty@ucdavis.edu)]

**Clinical History:** 10 year-old, female spayed, Golden Retriever/Poodle mix  
This patient had a mass removed laparoscopically from the right adrenal gland (cortical adenoma) and was started on a low dose of prednisone post-operatively. Eight days post-op, she began having cluster seizures and was started on levetiracetam therapy. The following day, the dog was moderately obtunded and stumbling. On neurological examination, mild generalized ataxia was noted along with decreased menace OS, and delayed proprioception in the left pelvic and left thoracic limbs. CBC and chemistry values were unremarkable except for a mild hepatic enzyme elevation. EEG showed seizure-like activity and abnormal brain waves resembling sleep state while awake. MRI revealed an eccentric right-sided mass extending over the frontal and parietal lobes with subtentorial herniation. Due to poor prognosis, euthanasia was elected.

**Necropsy Findings:** Tenuously adhered to the right parietal lobe of the brain and the dura mater is a soft, round, white, plaque-like mass measuring 3.5 x 3.0 x 0.3 cm. The mass is friable and poorly-demarcated from surrounding brain parenchyma. A portion of the mass adheres to the supradjacent surface of the calvarium.



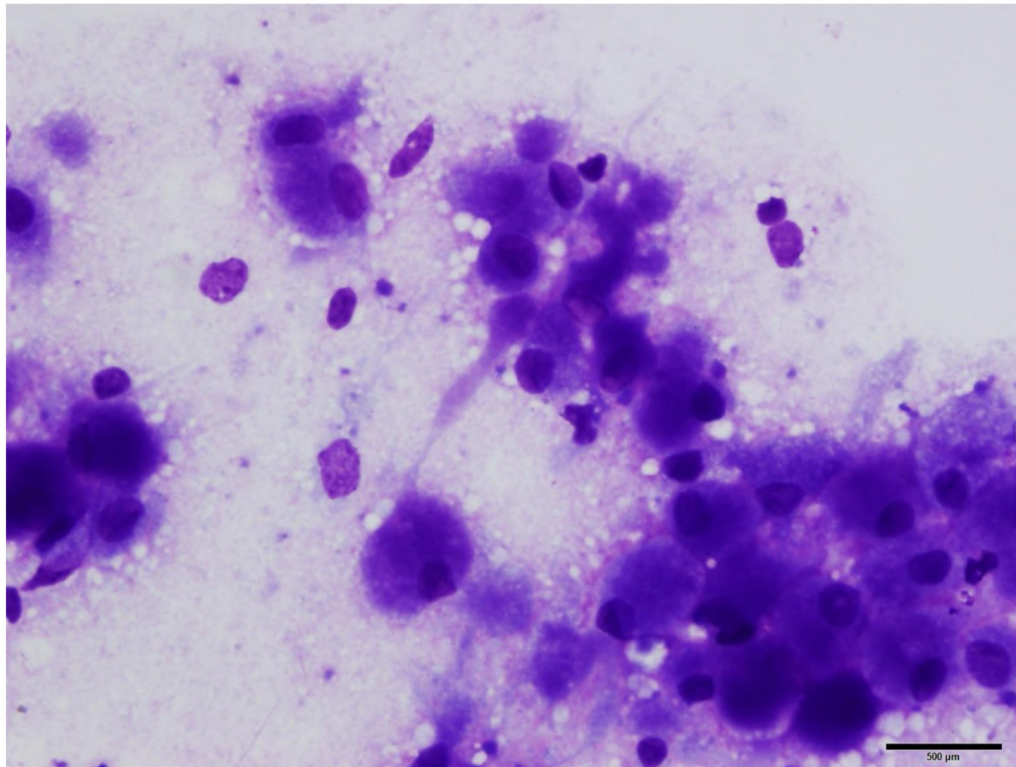




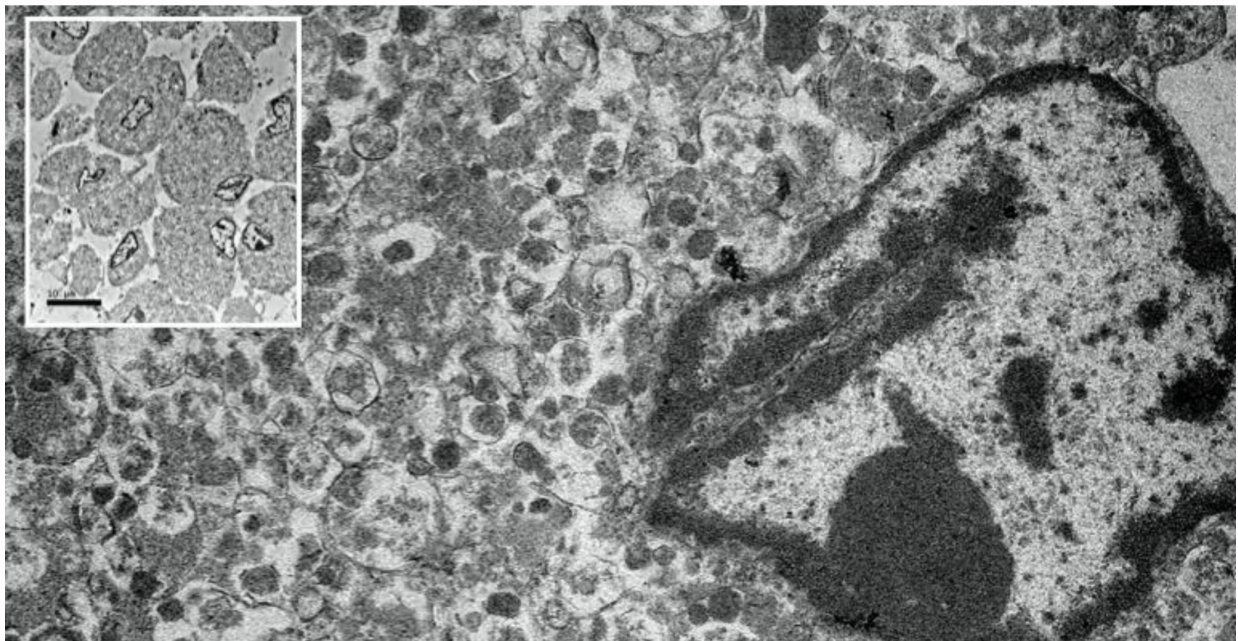
## DIAGNOSTIC EXERCISE



### Impression smear:



### Ultrastructure:





## DIAGNOSTIC EXERCISE



### Follow-up questions:

1. Provide differential diagnoses for the gross and imaging results alone
2. Give a cytologic description of the impression smear/cytology
3. Describe the ultrastructural characteristics
4. Refine, and state your top differential given the cytological and ultrastructural character

\*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](http://www.cldavis.org/diagnostic_exercises.html)).

**Editor-in-chief:** Claudio Barros

**Associate Editor for this Diagnostic Exercise:** Patricia A. Pesavento

For answers click **HERE**



# CHILEAN SEMINAR



UNIVERSIDAD  
PEDRO DE VALDIVIA



## VI REUNIÓN CHILENA DE HISTOPATOLOGÍA VETERINARIA

5 y 6 / AGOSTO / 2021

WEBINAR

VALOR:

Nacional (Chile): \$10.000 CLP - Internacional: US\$15

### CHARLAS MAGISTRALES: TUMORES MAMARIOS EN PERRAS



**Dra. Laura Peña M.V. Ph.D. Dip. ECVP**

*Criterios histológicos de graduación  
para tumores mamarios en perras*

Presidenta del Colegio Europeo de Patología Veterinaria  
Directora del Departamento de Medicina y Cirugía Animal, Universidad Complutense de Madrid  
Catedrática de Anatomía Patológica, Universidad Complutense de Madrid



**Dr. Cristian Torres M.V. Ph.D.**

*La importancia del diagnóstico microscópico en la elaboración del  
plan terapéutico en pacientes con neoplasias mamarias*

Director Servicio de Oncología Clínica, Hospital Veterinario Docente, Universidad de Chile.  
Investigador en Oncología Veterinaria y Comparada,  
Académico, Universidad de Chile.



RECEPCIÓN  
DE CASOS

FECHA LÍMITE

30/MAYO/2021

MÁS INFORMACIONES: [www.schpv.cl](http://www.schpv.cl)





# POULTRY DISEASES SEMINAR

## Full-day Seminars



Davis-Thompson  
Foundation

## Poultry Diseases Tuesday, August 10 2021

**Registration fee: \$50\***



**7-9 am\*\***

**Clinical aspects of the most popular  
diseases of layers in North America**

**Dr. Eric Gingerich**

Technical Services Specialist - Poultry,  
North America



**12:30-2:30 pm**

**Management of layer hens**

**Dr. Gregg Cutler**

Cutler Associates International



**9:30-11:30 am**

**Poultry CSI: the power of  
diagnostics for case investigations**

**Dr. Yuko Sato**

Iowa State University



**3-5 pm\*\***

**Cancer in poultry**

**Dr. H. Shivaprasad**

UC Davis

**\*-This seminar is preapproved by the ACVP Maintenance of  
Certification (MOC) Committee for 4 credits**

**-This program has been approved for 8 hours of continuing education credit in  
jurisdictions which recognize RACE approval.**

**\*\* all times in PDT**

[https://us02web.zoom.us/webinar/register/WN\\_dueSMhIkQi6XXE0U-dHxYg](https://us02web.zoom.us/webinar/register/WN_dueSMhIkQi6XXE0U-dHxYg)

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# URUGUAYAN SEMINAR

## 7th Uruguayan Davis - Thompson Foundation Seminar



Davis-Thompson  
Foundation

## Descriptive Gross Pathology & Gross/Microscopic correlation in Diagnostic Pathology

### Tuesday, August 24

**Registration FREE**



**9:00-10:30am\*\***

### Patología microscópica descriptiva

**Dr. Leonardo Minatel**

Universidad de Buenos Aires



**11:00am-12:30pm\*\***

### Hallazgos macroscópicos y su correlación microscópica

**Dr. Francisco Uzal**

UC Davis

**13:30-17:15\*\***

### Presentaciones orales de reportes de casos y avances de líneas de investigación en Patología

**Florencia Pieruccioni, Matías Andrés Dorsch, Belén Varela, Agustín Romero, Caroline da Silva Silveira, Carolina Matto, Alex Denis, Carlos Omar Schild, Camila Larrañaga, Rodolfo Rivero**

**\*\* all times in Montevideo Time**

[https://us02web.zoom.us/webinar/register/WN\\_GoYC2zjgSRGLGRJgxytZ8g](https://us02web.zoom.us/webinar/register/WN_GoYC2zjgSRGLGRJgxytZ8g)

Lectures in  
Spanish

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# MOUSE PATHOLOGY

**Davis-Thompson Foundation  
European Division Symposium**



## MOUSE PATHOLOGY



**VIRTUAL MEETING**

**13-14 September 2021**



**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 ACVP PRE-CONFERENCE WORKSHOP

## NEW DATES AND TIMES!



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**

# 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](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](mailto:skcuddvdm@gmail.com) ASAP to determine availability

# ZOO & WILDLIFE WORKSHOP AAZV

**AAZV 28th Annual**

**Zoo & Wildlife Pathology workshop 2021**

**Sponsored by the Davis-Thompson Foundation**



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)

# XII REUNIÓN ARGENTINA DE PATOLOGÍA VETERINARIA 2021

**14° Seminario de la Fundación  
C.L. Davis-S.W Thompson**

**11 al 14 de octubre**  
**MODALIDAD VIRTUAL**  
**INTA Balcarce**



Ministerio de Agricultura,  
Ganadería y Pesca  
Argentina

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

# TRANSBOUNDARY DISEASES AAVLD

## 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**

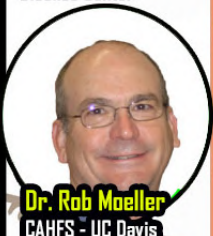


**8:10 am - 9 am\*\***

**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>

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100% of revenue generated by registration supports our mission.



# BSTP CORNER



## BRITISH SOCIETY OF TOXICOLOGICAL PATHOLOGY

### Notice of Future Meetings



Virtual Continuing Education Symposium 4: Respiratory System

6th - 15th July 2021

Tuesday, Wednesday, and Thursday

13.00 - 16.30 (GMT+1/UCT+1)



CES 4 will be held as a virtual event using Zoom on the afternoons of Tuesday 6th, Wednesday 7th, Thursday 8th, Tuesday 13th, Wednesday 14th and Thursday 15th July 2021, from 13.00 - 16.30 (GMT+1/UCT+1) each day.

50% of the places have already been taken for this symposium, with numbers limited to a maximum of 50 delegates - registration for this symposium is still open and will close at midnight on 18th June 2021.

Approved by the Royal Society of Biology for purposes of CPD, this event may be counted as 54 CPD Credits.

Approximately 18.5 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.

This Continuing Education Symposium will provide an intermediate level symposium on the respiratory system including challenges in inhaled drug discovery and development, background findings of the respiratory tract in rodents and non-rodents, translatable models of COPD, and regulatory requirements for inhalation toxicology. The format will include presentations, case histories and active participation of delegates.

For more details (including bursary information) visit –

<http://www.bstp.org.uk/events/ces-4-respiratory-system/>

The 36th Annual Scientific Meeting of the BSTP

Pathology of Mice with Human Immune Systems (HIS mice)

Wednesday 10th, Thursday 11th and Friday 12th November 2021



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 13.00 – 17.00 (GMT+0/UCT+0) each day.

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

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 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.

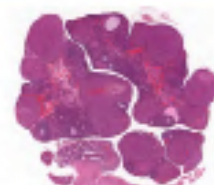
Registration will open in May/June 2021, keep checking the website for up-to-date information, including details of bursaries - <http://www.bstp.org.uk/events/the-36th-asm-of-the-bstp/>



# BSTP CORNER



**Virtual Continuing Education Symposium 5: Female Reproductive System**  
 Tuesday 8th – Thursday 17th March 2022  
 13.00 – 16.30 (GMT+0/UCT+0)



*CES 5 will be held as a virtual event using Zoom on the afternoons of Tuesday 8th, Wednesday 9th, Thursday 10th, Tuesday 15th, Wednesday 16th and Thursday 17th March 2022, from 13.00 – 16.30 (GMT+0/UCT+0) each day.*

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

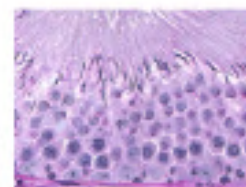
This Continuing Education Symposium will cover an overview of the female reproductive system in preclinical animal species.

Detailed information, including the programme and a registration form will be available in September/October 2021.

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

or visit <http://www.bstp.org.uk/events/ces-5-female-reproductive-system/>

**Virtual Continuing Education Symposium 6: Male Reproductive System**  
 Tuesday 5th – Thursday 14th July 2022  
 13.00 – 16.30 (GMT+1/UCT+1)



*CES 6 will be held as a virtual event using Zoom on the afternoons of Tuesday 5th, Wednesday 6th, Thursday 7th, Tuesday 12th, Wednesday 13th and Thursday 14th July 2022, from 13.00 – 16.30 (GMT+1/UCT+1) each day.*

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

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

Detailed information, including the programme and a registration form will be available in December 2021/January 2022.

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

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



# BSTP CORNER



## DATES FOR FUTURE EVENTS TO BE ORGANISED BY THE BSTP:

Future BSTP events are as follows:

6th – 15th July 2021	CES 4 - Respiratory System
10th, 11th & 12th November 2021	36th Annual Scientific Meeting – Pathology of Mice with Human Immune Systems (HIS mice)
26th November 2021	BSTP Annual General Meeting
8th – 17th March 2022	CES 5 - Female Reproductive System
5th – 14th July 2022	CES 6 - Male Reproductive System
November 2022	37th Annual Scientific Meeting & AGM
March 2023	CES 7 - Infectious diseases in laboratory animals
July 2023	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.

For details of webinars visit - <http://www.bstp.org.uk/events/bstp-webinars/> or <http://www.bstp.org.uk/non-bstp-events-and-webinars/>

If you would like to receive information on any of these events as soon as the information becomes available, you need to make sure that the BSTP have your contact details on the mailing list.

You can withdraw your consent to receive communications from the BSTP at any time, by means of a written/emailed request for removal from the database.

Although the BSTP is in contact with similar organisations in Europe and the USA it is the policy of the BSTP **NOT** to pass on details of our mailing list.

The BSTP's Data Protection Policy can be found at <http://www.bstp.org.uk/governance/>

For more information on any of these meetings, keep checking the website - <http://www.bstp.org.uk/events> or contact the BSTP Secretariat - [bstpoffice@aol.com](mailto:bstpoffice@aol.com)

Details of future meetings are correct at the time this information is produced, the BSTP will not be held responsible for any changes to dates, venues and topics of these events.

If you have any queries, or require further information regarding this symposium, please contact:

BSTP | PO Box 819 | Harrogate HG1 9XF | North Yorkshire | UK  
 Tel: +44 (0)7894 123 533  
 Email: [bstpoffice@aol.com](mailto:bstpoffice@aol.com) Website: [www.bstp.org.uk](http://www.bstp.org.uk)



# IDEXX CASECONNEXX CORNER

**SIGNALMENT:** 13-year-old, male neutered, mixed breed, canine.

**SOURCE/HISTORY:** Persistent hypoglycemia, increased insulin level, surgical exploratory, 2cm firm mass tail end of right limb of pancreas, jejunal mesenteric lymphadenopathy noted, multiple raised yellow/white nodules on liver lobes R/O insulinoma with metastatic disease.

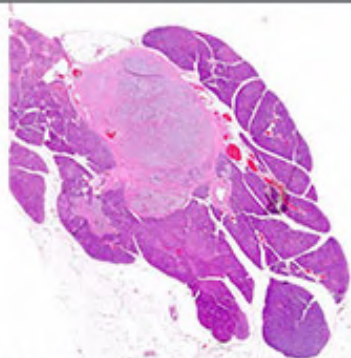


Figure 1. (5X magnification, H&E stain) Pancreas. A well-demarcated, pseudoencapsulated, epithelial neoplasm infiltrates and effaces the exocrine pancreatic tissue.

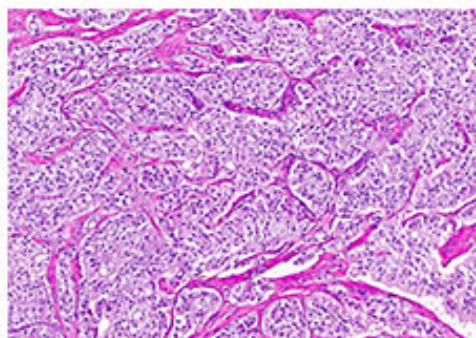


Figure 2. (200X magnification, H&E stain) Cords and lobules of neoplastic epithelial cells supported by dense collagenous stroma.

## MICROSCOPIC DESCRIPTION:

**Pancreas:** There is a pseudoencapsulated but infiltrative mass bounded by dense collagenous stroma. The tumor is comprised of cords of cells with eosinophilic to amphophilic, lightly vacuolated cytoplasm and round to ovoid nuclei with a coarsely clumped chromatin pattern. The cells and nuclei have mild variation in size and shape. The remaining islets of Langerhans throughout the pancreas appear normal. The exocrine portion and interstitium are within normal limits. **Liver:** There is a metastatic focus of neoplastic tissue similar to that described in the pancreas. This focus is not encapsulated but is well demarcated but extends to the margin. The adjacent hepatic tissue exhibits marked cell swelling with clear cytoplasm vacuolation throughout the hepatocytes.

## MICROSCOPIC INTERPRETATION:

**Pancreas:** Pancreatic islet cell carcinoma

Mitotic count: 0 mitotic figures in 10 high power fields (total viewing area 2.37mm<sup>2</sup>)

Excisional biopsy: The tumor appears completely removed, it extends to within 0.4 mm of the narrowest margin which is comprised of collagenous stroma and adipose tissue

Vascular invasion: Not observed

**Liver:** Metastatic islet cell carcinoma, extends to margins

**Liver:** Hepatocellular vacuolar degeneration, diffuse, moderate to severe

**Lymph node:** Metastatic islet cell carcinoma, extends to margins

**Spleen:** Splenic hemorrhage with atypical fibrovascular proliferation, necrosis, hemosiderin accumulation, fibrosis and extra medullary hematopoiesis, completely removed

**Spleen:** Splenic siderotic plaques (Gamma-Gandy bodies)

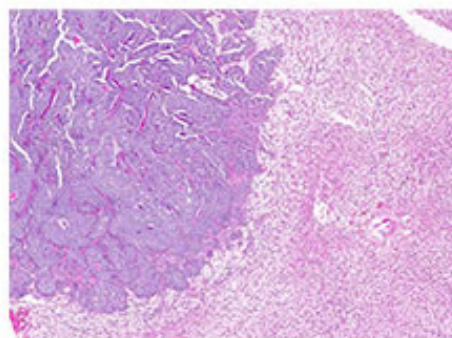


Figure 3. (50X magnification, H&E stain) Liver. There is a focus of metastatic tumor with features like those of the pancreatic tumor.

# IDEXX

## CaseConnexx

Visit [CaseConnexx.com](https://www.caseconnexx.com) to register

\*Continue to the next page for  
the comments on this case

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## COMMENTS:

Pancreatic islet cell tumors are uncommon in dogs. They may be benign or malignant and although usually solitary, they may be multiple within the pancreas. In this case there are lesions in the lymph node and liver indicating this is a malignant and metastatic tumor. Both adenomas and carcinomas may be associated with syndromes of hormonal hypersecretion although some tumors are clinically silent. Clinical signs vary and depend upon which, if any, hormone or hormones are produced and secreted by tumor cells.

Pancreatic islet cell tumors in dogs have been most often associated with excess insulin secretion and hypoglycemia. A few of these tumors have also been associated with gastrin secretion and a Zollinger-Ellison-like syndrome. Immunohistochemical staining can help determine which hormones are being produced by cells in these tumor cells. If you wish to pursue this staining please contact our laboratory. Lab use only: IHC, test code 6976 slide A, Insulin, glucagon, pancreatic polypeptide, somatostatin, gastrin, adrenocorticotrophic hormone.

The submitted liver contained nonspecific vacuolar degeneration that could result from a number of underlying causes. Common causes include endogenous or exogenous hyperadrenocorticism, adrenal hyperplasia syndrome with abnormal sex hormone production, diabetes mellitus, lipid metabolic disorders, toxin exposure, and biliary disease. In relation to hyperadrenocorticism, any condition associated with chronic stress (greater than 4 weeks duration) can also result in vacuolar degeneration. Chronic infections and neoplasia fall into the latter category. Other conditions that can be associated with vacuolar degeneration include pancreatitis, gastroenteritis, and bacterial septicemias with or without endotoxemia.

Serum bile acid levels can be useful diagnostically in these cases. In animals with significantly elevated bile acid levels, vacuolar degeneration is more commonly associated with a primary hepatic problem. Animals that have only mild elevations or normal bile acid levels are more likely to have extrahepatic disease. Certain proliferative lesions of the liver can also show vacuolar degeneration. These include benign nodular hyperplasia of older dogs and hepatocellular adenomas.

## PATHOLOGIST:

Nicole Kraipowich, DVM, MS, DACVP

The IDEXX logo consists of the word "IDEXX" in a bold, sans-serif font. The letter "E" is stylized with a red horizontal bar through its center.The CaseConnexx logo features the word "CaseConnexx" in a bold, sans-serif font. Below the text is a horizontal bar with a colorful, abstract pattern.

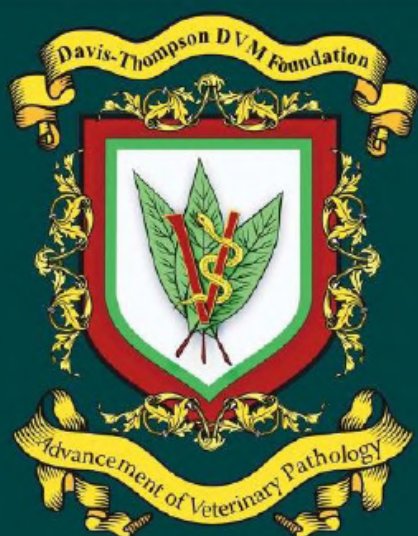
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# MISCELLANEOUS ANNOUNCEMENTS

## Surgical Pathology of Tumors of Domestic Animals

Edited by M. Kiupel



### Volume 3: Tumors of Soft Tissue

P. Roccabianca, F. Y. Schulman,  
G. Avallone, R. A. Foster, J. L. Scruggs,  
K. Dittmer, M. Kiupel

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## RETIRING?

Have slides left over from your recent slide seminar? Just looking to free up some storage space? The Foundation is looking for additional glass slides, kodalchromes 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](mailto:bruce.h.williams.dvm@gmail.com).

## EXTERNSHIP OPPORTUNITY!

### 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](mailto:jobritt@sbcglobal.net); 501-912-1449.

## NEWS FROM THE STP

Calling all students and residents curious about toxicologic pathology!

The Student/Resident Corner (SRC) is a new addition to the Society of Toxicologic Pathology's website that aims to provide community and resources to help you learn more about this career path and connect with others interested in the field. It includes a calendar of upcoming events, information on previous speakers/training institution program (STIP) visits, externships, scholarships/awards, and profiles of our student liaisons and current pathologists working in the field. It is free, available to all students, and can be accessed under the student tab on the STP website homepage.

[CLICK HERE](#) to go directly to the SRC homepage.

# MISCELLANEOUS ANNOUNCEMENTS



## Become a member of the Latin Comparative Pathology Group



**LCPG:**

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

### Membership Fees:

\$50 - Professionals in US, Canada, and Europe

\$30 - Professionals in Latin America

\$25 - Students in US, Canada, and Europe

\$15 - Students in Latine America

**CLICK HERE** to learn more.

Use this link to join: <https://davisthompsonfoundation.regfox.com/lcpg-membership>

LCPG is the proud Latin American Division of the Davis Thompson Foundation



# TABLE OF UPCOMING EVENTS

North America				
Country	Course	Date	Venue	Contact
USA	Free Seminars (English, Spanish, Portuguese)	Weekly: January through December 2021	VIRTUAL	Jey Koehler jaw0007@auburn.edu Paco Uzal fauzal@ucdavis.edu
	Tuesday Day Seminars	Twice a month: January through December 2021	VIRTUAL	Jey Koehler jaw0007@auburn.edu Paco Uzal fauzal@ucdavis.edu
	Pathology of Laboratory Animals	August 2-6	VIRTUAL	Robert Kim robert.k.kim2.mil@mail.mil
	Northeastern Veterinary Pathology Conference	September 17-18	VIRTUAL	Sarah Cudd skcuddvdm@gmail.com
Oceania				
Country	Course	Date	Venue	Contact
Australia	Saturday Seminars	Monthly: January through December 2021	VIRTUAL	Tony Ross tony.rossvetpath@hotmail.com Hanna Bender hanbender@gmail.com
Latin America & Europe				
Country	Course	Date	Venue	Contact
Argentina	XII Argentinean Meeting on Veterinary Pathology and 14 <sup>th</sup> Argentinean Davis Thompson seminar	October 11-14	VIRTUAL	Eleonora Lidia Morrell morrell.eleonora@inta.gob.ar
Brazil	Portuguese Virtual Seminars	Monthly: February through December 2021	VIRTUAL	Breno Salgado breno.salgado@ufes.br
Chile	6th Chilean Histopathology Meeting	August 5-6	VIRTUAL	Carlos Flores carlos.flores@upv.cl
Latin America & Spain	Spanish Virtual Seminars	Monthly: January through December 2021	VIRTUAL	Francisco Carvallo francisco.carvallo@gmail.com Paco Uzal fauzal@ucdavis.edu
Uruguay	7 <sup>th</sup> Uruguayan Seminar of the Davis Thompson Foundation	24 August 2021	VIRTUAL	José Manuel Verdes García jmverdes@fvvet.edu.uy



Davis-Thompson  
Foundation

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AUGUST 2021