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

A Tax-Exempt, Donative, Publicly-Supported Charity
FOR THE ADVANCEMENT OF VETERINARY AND COMPARATIVE PATHOLOGY

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INSIDE THIS ISSUE

- | | |
|----------------|--------------------------------------|
| PAGE 2 | Thank you Dr. V. Rac |
| PAGE 5 | Pig diseases |
| PAGE 6 | Participants' Seminar Reviews |
| PAGE 12 | Spanish Seminars |
| PAGE 13 | Gen Path Review Course |
| PAGE 14 | Diagnostic Exercise |
| PAGE 15 | Join the LCPG |
| PAGE 16 | Miscellaneous |
| PAGE 19 | Gross Path Review Course |
| PAGE 20 | Descriptive Course |
| PAGE 21 | Table of Upcoming Events |

Dr. Vladislava Rac, Foundation Treasurer, Steps Down After 35 years

by Bruce Williams, Foundation Treasurer



In August of this year, Dr. Vladislava Rac quietly stepped down from her post as the Treasurer of the C.L. Davis and S.W. Thompson Foundation. While not a name on the lips of tens of thousands of students around the world who have benefited from the thousands of pages and hours of educational materials provided by the Foundation, for the many people working behind the scenes at the Foundation, Dr. Rac ("Vladi" to those who know her) was the emotional core of the Foundation.

Her countless hours behind the scenes (to make the Foundation into the largest organization in the world educating veterinary pathologists and laboratory animal medicine practitioners) matched anyone else's in the organization.

Vladislava Rac is the second wife of the Foundation's visionary founder, Samuel Wesley Thompson. She first met Sam, a widower at the time, at CIBA-Geigy in the 1980's. Together, they formed one of the earliest consultancies in veterinary pathology, Samuel W. Thompson and Associates, and were widely employed by numerous drug companies across the U.S. in addition to being an outstanding pathologist, her natural facility with figures and funds made her the natural accountant for the business, and also for Sam's growing concern, the Charles Louis Davis Foundation. Over time, as Sam devoted more and more time to the Foundation, ultimately retiring from "SWT&A" (his third retirement), and Vladi became not only the Foundation's accountant but its chief rainmaker as well (through her almost infallible instincts for investing in stocks).

Vladi's interest in the Foundation was not simply to spend time with Sam (who averaged 12 hours a day, seven days a week working on Foundation business), but she also had her own interests in education beyond just keeping the books. She was the driver of the Foundation's Worldwide Continuing Education Program, providing videotapes, DVD, books, and slide materials to over 110 centers around the world. She also was and continues to be an unceasing advocate for pathology education in Eastern Europe, and has sponsored and contributed to almost every meeting the Foundation has held in these countries, as well as ensuring their continued presence of our Board of Directors.

But even more importantly, Vladi is the emotional center, the true heart of this Foundation. To the delight of us who spent time in the Foundation's inner circle (and back in the halcyon days when annual meetings were a weekend gathering in Chicago and often Sam and Vladi's home), Vladi was always there, omnipresent at Sam's side or bustling around the kitchen or the meeting rooms, making our meetings more of a family holiday than a business meeting. Her family is our family – Vladi and her sister Ksenija (and Vladi's mother, now 100 years young, still lives in their Serbian homeland), made everyone feel welcome and appreciated. Vladi's presence has always been reassuring to the Foundation's inner circle – not only did we know the Foundation's finances were in the best of hands, but also its head of state, Sam Thompson, was in good hands as well.

Sam always believed himself to be the luckiest of men to have found Vladi and that he "got a second family" as well. My fondest memories of Sam as he moved through his seventies into his eighties, was seeing how Vladi and her family waited on him like royalty – every few days, I would call Vladi and ask – "How is the King today?" Or how Vladi – who should largely be credited for Sam's long life – would disapprove of his second martini or too much dessert. Vladi never had to say anything more than "Samuel..." – when she called him by his full name, he would wink at me and smile, and put it back.

As I think back over the 30 years I have spent in the Foundation and I now contemplate the complexity of the Treasurer's job, it is not the unerring growth of the Foundation's bottom line that I will remember -although I firmly believe that without Vladi's guidance in this area, the Foundation would not even be here today. What I will miss most about Vladi's daily presence is the love she had and showed for Sam and extended without hesitation to those of us who were drawn into his circle. Looking back, perhaps it was HER circle instead, and Sam, like the rest of us, found it one of the happiest places to be.

Vladi now looks forward to enjoying even more time with her family, whose houses actually surround the Foundation's office in Gurnee III (we are a close-knit group). She will be no stranger to the office, but no longer has to write the checks, balance the accounts and file the taxes, and has more time to chat, rather than scour incoming mail for vouchers to reimburse. Hopefully, each day when she leaves her house, she will look to the right, across the yard to the Foundation's offices, and will remember the wonderful years she spent as the Foundation's most important member, the wonderful work she did promoting education around the world, and she will feel the love that we all have for her.



Davis-Thompson Foundation Day Seminars



PIG DISEASES Tuesday, 15 December 8 RACE CE CREDITS!* Registration fee: \$50



Dr. Joaquim Segales

Comparative pathology of pneumonias in pigs
Autonomous University of Barcelona,
Spain
7-9 am**



Dr. Fabio Vanucci
Emerging diseases of pigs
University of Minnesota
9:30-11:30 am



Dr. Michael Rehe

Diseases of the locomotor system
Iowa State University
12:30-2:30 pm



Dr. Eric Burrough
Enteric diseases
Iowa State University
3-5 pm

- * -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 PST

Register here: https://us02web.zoom.us/webinar/register/WN_1lO-HudrRuaiTUp15VcVqg

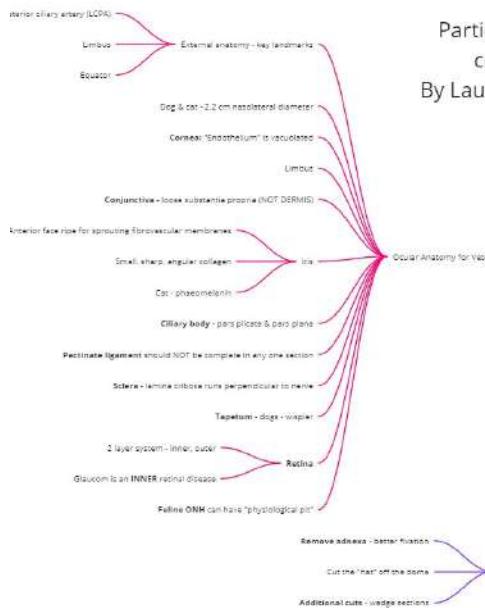
Participant's seminars reviews

Intestinal biopsies

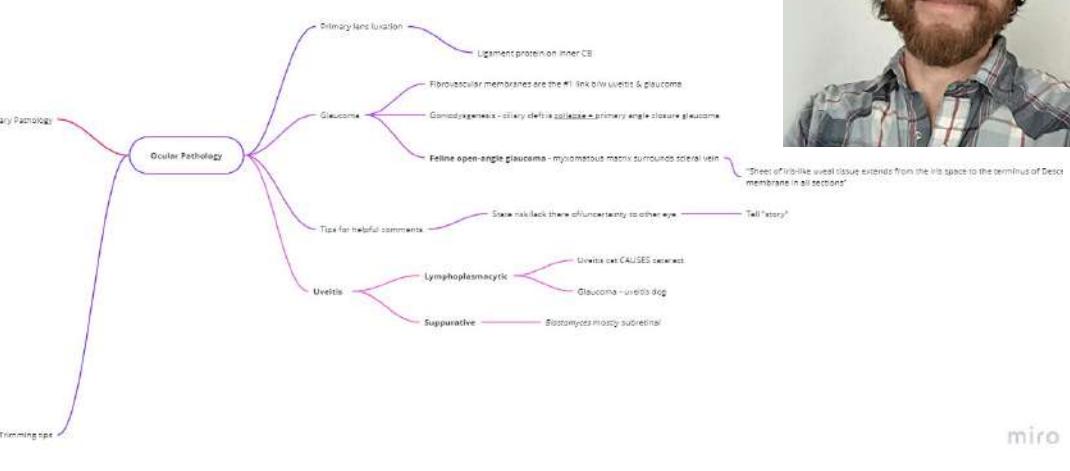
by Rachel Neto, DVM, MS, DACVP



Oh... that not-so-pleasant feeling of having a waiting line of endoscopic biopsies on your flat and the never ending dilemma of "IBD or lymphoma" or "lymphoplasmacytic and eosinophilic enteritis versus unremarkable sample"? If you relate, then I hope you watched Dr. Jesse Hostetter's (University of Georgia) webinar (which will be available at the Foundation's youtube channel indefinitely!). I know this theme is, per Dr. Hostetter, "tricky business" worldwide given the number of attendees of that day: an overwhelmingly large audience (about 400 people). It's no secret this is a very complicated subject, but Dr. Hostetter not only dove into it but also answered a large volume of questions from the audience. Starting one's interpretation with a thorough history, like clinical signs (including duration and frequency), protein levels, and ultrasound findings is paramount. Dr. Hostetter brought up parameters (in words and images!) used for samples of good versus unacceptable quality, always with a personal touch based on his knowhow accumulated throughout the years. He also kept it real when demonstrating the quite common artifacts and processing issues I'm sure we all encounter during our biopsy duties, and possible ways to troubleshoot them. Attendees were able to review the criteria pertaining to the sample's architecture and cellular infiltrates, proposed by the WSAVA, but with additional examples brought from Dr. Hostetter's archive, which was very helpful! A modified scoring grid used by him was shared with the audience to demonstrate different ways people report gastrointestinal biopsies. And, of course, we couldn't finalize the talk without bringing up the inflammation versus lymphoma nightmare, and Dr. Hostetter illustrated how complex this is with great photomicrographs, diagrams and algorithms. Personally, it was comforting knowing that even experts once experienced uncertainties similar to mine (and I believe from many colleagues around the world).



Participants Review of Ocular pathology of dogs and cats: From normal anatomy to common lesions (Dr Chris Reilly, Insight Veterinary Specialty Pathology)
By Laura Setyo BVSc (Hons), MRCVS, MANZCVS (Veterinary Pathology), Diplomate ACVP



Digital Pathology

by Rachel Neto, DVM, MS, DACVP

I believe I can speak for all attendees of that Tuesday that excitement was the word of the day. Such an ethereal subject, which has been an inspiration for so many sci-fi productions can only bring that sparkle and hunger of learning how it has been / currently is / will be applied in our humble lives. Honestly, my 10-year-old from the past would never imagine that we'd be talking about artificial intelligence and machine learning applied to the career I picked to pursue.

That day started out with Dr. Vanessa Schumacher, from Roche Innovation Center Basel, Pharma Research and Early Development covering the foundations of digital pathology. Acquiring a high quality whole slide should be one's uttermost priority, right? Wrong! Dr. Schumacher patiently went over the fundamental task force and tools that should be planned first, like IT personnel, getting acquainted with softwares, image storage (we're talking about LOTS of data) and establishing an effective streamline. She even brought to our attention the differences between digitalization,

which can be confusing for the untrained mind (such as mine, which is a funny thing since my husband is a software engineering - "The shoemaker's son always goes barefoot" never felt so real). With a neat pyramid, we could visualize the transformation of data into information, knowledge and, then wisdom! Dr. Schumacher brought up potential pitfalls, improvements and examples of how digital pathology works for her routine.



The following presentation was by Dr. Aleksandra Zuraw, from Charles River Laboratories. May I express my admiration for her beautiful slides? She had the perfect combination of diagrams, images, attendee interaction and pacing. Dr. Zuraw started with a very educational timeline of AI, going from Turin to the powerful algorithm that excelled at a complex board game recently. My favorite part was when she provided examples of our day to day life, like the Roomba vacuum, the famous Alexa, and the self driving cars (which I believe will become more and more popular and affordable for a safer traffic in the future). Dr. Zuraw also spent some time explaining the different types / levels of learning and ways we can contribute to improve the systems, like reinforcement feedback and data augmentation. The highlight for me was the mind-blowing virtual staining, where the machine could apply both H&E and, for example, an immunomarker concurrently, without using a single stain!



Dr. Daniel Rudmann, from Charles River Laboratories, followed the lunch break with an important mission: convince pathologists that we will NOT lose our jobs to AI! I can say he conquered this goal, and he did so by providing excellent examples of how AI and deep learning have been exponentially aiding in diagnosis and research. Dr. Rudmann covered the many ways AI can act as decision support, predicting future outcomes in animal models, of course with the help of feedback from experienced pathologists.

Well... there was this analogy that machine learning basically functions as residents (but better, uh-oh!). However, machine learning still needs tons of annotations input, which requires human power (yay!). One thing everyone can absolutely agree on: shifting the repetitive and tedious analyses to AI would be indeed a blessing!

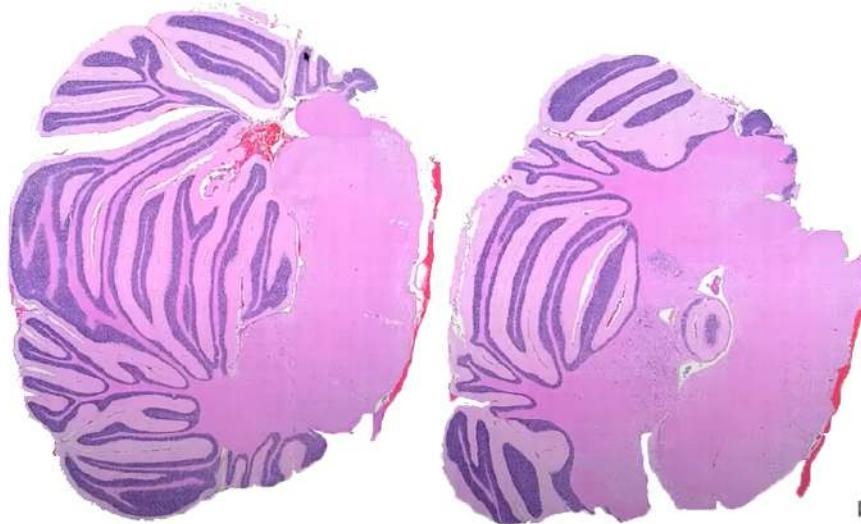


Our last speaker for that day was Dr. Kevin Keel, from UC Davis, with a more academic and educational approach to digital pathology. One thing that I found impressive was the size of whole slide images. I mean... I knew they were a lot to handle, but my jaw dropped with the side by side comparison of the gigantic 40x digital slides overpowering the teeny tiny high resolution photograph with a semi-professional camera. Visual comparisons like that are very effective!

Dr. Keel also touched on other fields benefited from digital tools, like parasitology and clinical pathology, as well as the fruitful applications, such as use for education, collaborative work, and distance training. It was a very insightful talk, and at the end of the day I was sold to AI and machine learning!

If you stumble upon any skepticism regarding the digitized future, you may refer the subject to the Foundation's youtube channel for the positive perspective!

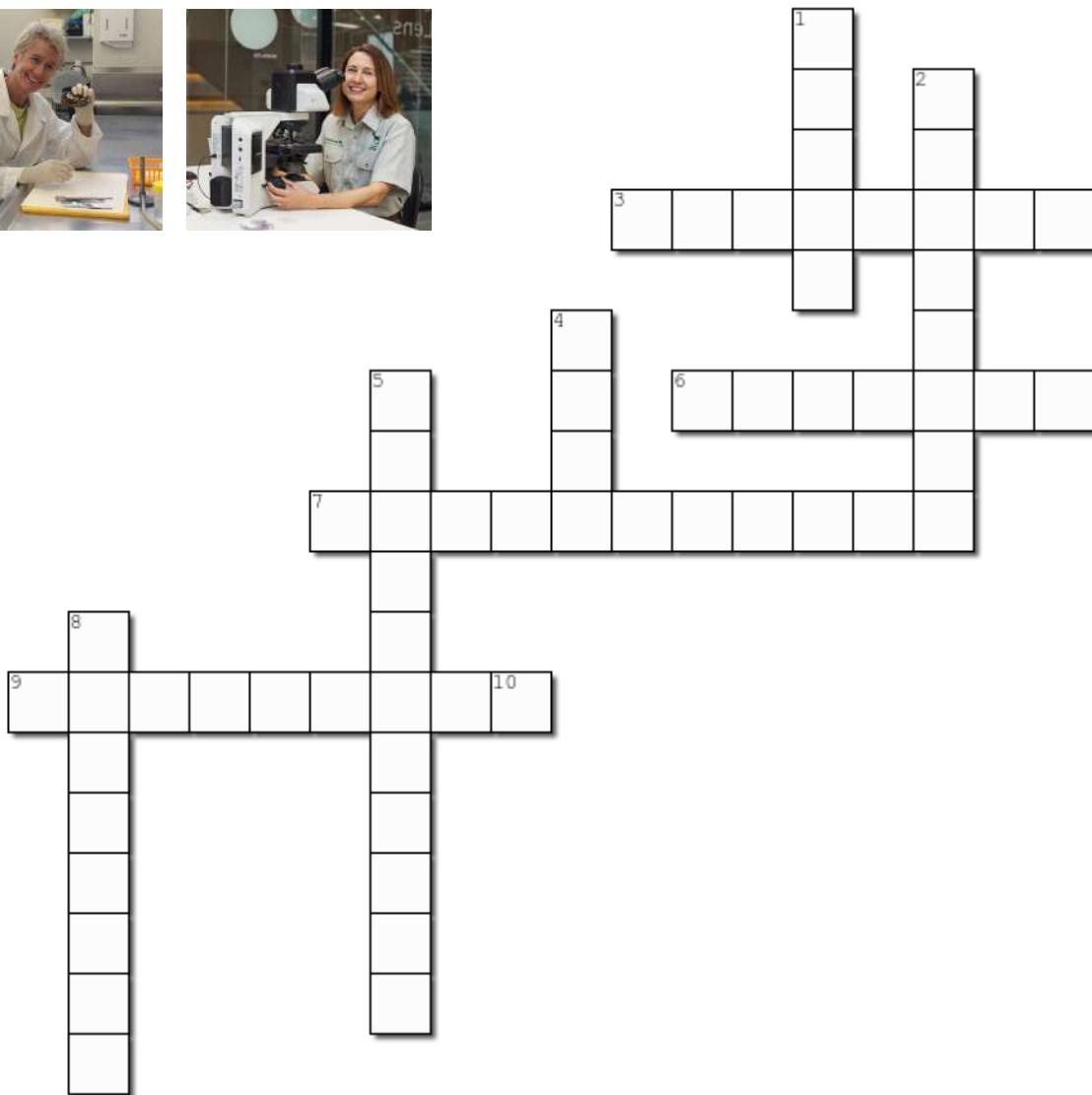
Whole slide images are massive!



Dr. Kevin Keel's presentation. Let's play "Where's Waldo?". Can you identify the high resolution photograph taken with a semi-professional camera? That's how ginormous digitized slides are!

Crocodilian Pathology and Selected Diseases of Other Australian Reptiles

Presented by Dr. Cathy Shilton (Berrimah Veterinary Laboratory) Participant's Review By Laura Setyo BVSc (Hons), MRCVS, MANZCVS (Veterinary Pathology), Diplomate ACVP



Created using the Crossword Maker on TheTeachersCorner.net

Across

3. Occurred in the wild due to damming of gorge
6. An imbalance in farmed crocs associated with feeding an all-meat diet
7. A crocodile's immunity is ideally 30C
9. Crocodile neoplasia from squamous cells

Down

1. Herpesviruses - count them in crocs!
2. AKA vitamin B1 deficiency
4. This very long river causes lymphohistiocytic aggregates in a variety of tissues
5. Causes a heterophilic granuloma in crocodile brains (surname: aeruginosa)
8. A runty crocodile's adrenal glands due to the effect of stress.
10. Deficiency causes squamous metaplasia at the ducts of the salt glands

27th Annual Zoo and Wildlife Pathology Workshop

by Dr Dalen W. Agnew

Over 120 participants attended the recent 27th Annual Zoo and Wildlife Pathology Workshop held entirely virtually on Zoom at the beginning of the 2020 meeting of the American Association of Zoo Veterinarians. Dr. Robert Poppenga, from California Animal Health and Food Safety Laboratory in Davis, California, presented the keynote: "An Intoxication or Not an Intoxication? Expanding Your Decision-Making Toolkit." After his presentation, participants presented 16 case challenges to a diverse audience of veterinary students, trainees, clinical veterinarians, and pathologists. The presentations included cases involving rhinos, pelicans, crabs, pangolins, and hellbenders among others, and culminated with a presentation about hamster, guinea pig, and ferret models of COVID19 infection. The next Zoo and Wildlife Pathology Workshop is scheduled for 24 October 2021 in Toronto where we will hopefully meet in person (stay tuned for more detailed information on the topic and submission deadlines).



Case



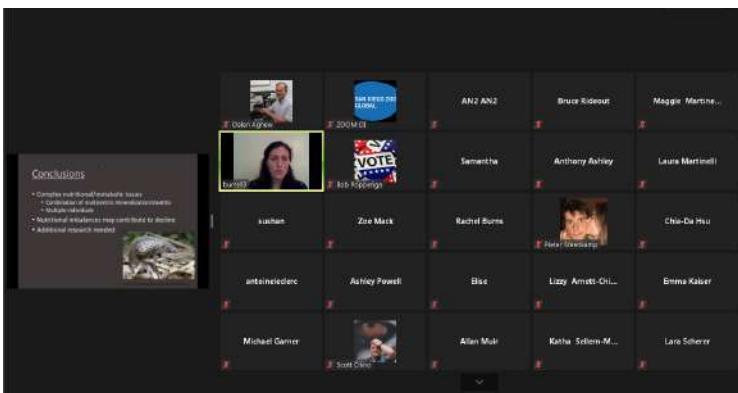
Liver and kidney tissues submitted from 3 of 50 cow nose rays that died over a 3 to 4 week period in a new exhibit. All had necrosis of vessels in brain and meninges (encephalitis). Initial concern was a viral etiology but initial testing was negative. There had been a 50% water change resulting in no more mortalities. Concern about construction materials being associated with death loss. Requested test: heavy metal screen.

UC DAVIS

Bob Poppenga

Conclusions

- Consider nutritional/metabolic issues
- Consideration of malnutrition/meteorologic conditions
- Viral etiology remains a possibility
- Additional research is needed to determine cause
- Addressive research needed



Dalen Agnew

Samantha

AN2 AN2

Bruce Rideser

Maggie Martini...

Bob Poppenga

Zoe Mack

Rachel Burns

Chi-Da Hsu

antinelederc

Ashley Powell

Bisc

Lizzy Ametti-Chi...

Michael Garner

Scott Clark

Alan Mohr

Kathleen Schlem-W...

Kimberly

Anthony Bailey

Emma Kaiser

Lara Scherny

CL DAVIS & SW THOMPSON DVM FOUNDATION / LATIN COMPARATIVE PATHOLOGY GROUP SPANISH SEMINARS 2021

Seminars in Spanish



Jueves 21 enero



Marti Pumarola
Facultad de Veterinaria, Barcelona, España
El diagnóstico en neuropatología:
más allá de la espongiosis

https://us02web.zoom.us/webinar/register/WN_ZGgmCqPArR08nVCRbXx9OA

Jueves 15 abril



Paola Barato
CORPAVET y MOLECULARVET SAS
Bogota, Colombia
Enfermedades de los peces de agua dulce

https://us02web.zoom.us/webinar/register/WN_G4PauR8HRTWTse0lkJXZZQ

Jueves 11 febrero



Joaquín Ortega
Universidad CEU Cardenal Herrera, Valencia, España
Introducción a la dermatopatología y
reconocimiento de patrones histopatológicos

https://us02web.zoom.us/webinar/register/WN_3mi8Ca6SRtGDRgnJh4CD0A

Jueves 13 de mayo



Fernando Dutra
DILAVE "Miguel C. Rubino",
Treinta y Tres, Uruguay
Autopsia y neuropatología perinatal
en bovinos y ovinos

https://us02web.zoom.us/webinar/register/WN_hHO_OANWQmimaYsKEYdepg

Jueves 18 marzo



Valentín Pérez
Facultad de Veterinaria, Universidad de León, España
Patología del tracto reproductor de la hembra en
pequeños rumiantes

https://us02web.zoom.us/webinar/register/WN_vSdDRtRMSdueKf4t4pO1Vg

Jueves 10 junio



Claudio Barros
Universidade Federal de Mato Grosso do Sul,
Campo Grande, Brasil
Lesiones comunes encontradas en bovinos
en mataderos

https://us02web.zoom.us/webinar/register/WN_CZ7Wnx35T2KyCdczRczelg

All seminars at 8-9:30 AM PST

Each seminar will receive: 1.5 RACE credit and 1 ACVP MOC credit

All seminars are free

GENERAL PATHOLOGY REVIEW COURSE

February 1-6

**Cell adaptations, injury, and death;
Tissue repair;
Inflammation;
Hemodynamics;
Diagnostic tests;
Microbial Pathogenesis;
Immunity;
Neoplasia;
Mock exams (ONLY FOR LIVE COURSE)**

Live course: \$250
(limited to 100 people)

Re-broadcasting: \$100
(available through the end
of ACVP I phase examination)

Register at:

<https://davisthompsonfoundation.regfox.com/genpath2021>



Dr. Patricia Pesavento



Dr. Jose Vilches-Moure

Dr. James Stanton



Dr. Erin Ball

Dr. Denise Imai



Dr. Kevin Woolard

Dr. Darren Wood



Dr. Kaori Sakamoto



Dr. Jairo Nunes



Diagnostic Exercise From The Davis-Thompson Foundation



Case #151 Month: February Year: 2020

Contributors: Alvaro Wehrle Martinez, DVM, MVS, Diplomate ACVP, PhD candidate; Fernanda Castillo-Alcala MVZ, DVSc, Diplomate ACVP, School of Veterinary Science, Massey University, Palmerston North, New Zealand.

Clinical History: This adult female kune kune pig presented with a history of weight loss and was unable to stand the previous day.

Necropsy Findings: The adult kune kune sow is presented dead and judged to be in poor body condition (body weight: 42.9kg), with minimal postmortem changes and moderately dehydrated. The mucous membranes are pale. She has little to no fat reserves in the mesentery, around the kidneys and around the heart. In the pericardial sac there are approximately 20 ml of dark, opaque brown fluid. The gastric wall is pale, and the gastric mucosa is diffusely thickened and nodular with numerous red parasites of approximately 10 mm in length.

Gross images:



Follow-up Questions: 1) What is your morphological diagnosis; 2) What is the probable cause?; 3) What are the histologic findings

Answers and more info [here!](#)

*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!

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

Learn more here:
http://www.cldavis.org/lcpg_english.html

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

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

Membership fees:

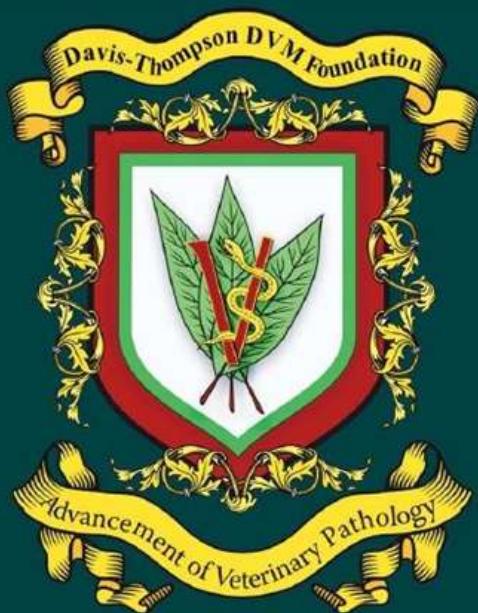
- \$50 - Professionals in US, Canada and Europe
- \$30 - Professionals in Latin America
- \$25 - Students in US, Canada and Europe
- \$15 - Students in Latin America

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, kodachromes and other similar materials for its Correspondence Division and Study Centers. All materials should be well identified with as much accompany history and discussion as possible, as these materials are expressly used for teaching. Moreover, as the Foundation is a publicly donative charity, all donated materials are tax-deductible. For more information, please contact Dr. Bruce Williams at bruce.h.williams.dvm@gmail.com.

Surgical Pathology of Tumors of Domestic Animals

Edited by M. Kiupel



Volume 3: Tumors of Soft Tissue

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

AVAILABLE NOW!!!!
CLICK HERE to place your order!

Davis-Thompson Foundation Pathology Externship

Since 1980, the Davis-Thompson Foundation lab sites have hosted more than 125 veterinary students at 8 participating diagnostic laboratories. These students usually have a strong interest in pathology itself or zoo or poultry medicine that require a strong pathology background. The Foundation is always interested in having veterinary students apply for an externship and we would like to add more externship sites that do not usually have veterinary students, to help increase their interest and knowledge of pathology with some off-campus experience. For more information, contact Dr. Jim Britt, jobritt@sbcglobal.net; **501-912-1449.**

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Vol #3 – Tumors of Soft Tissue

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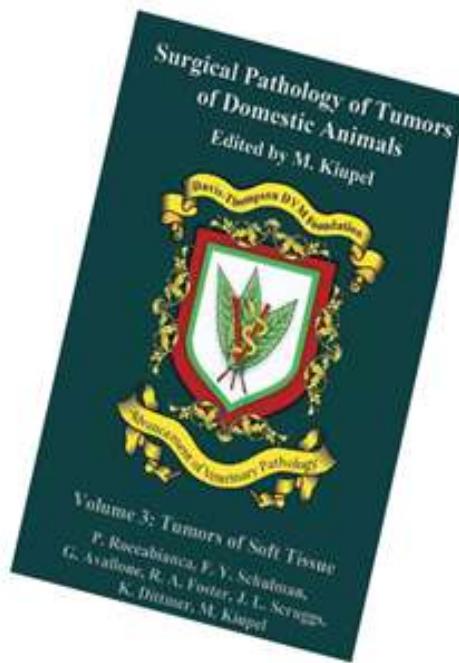
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THE WCVD9 DERMATOPATHOLOGY PROGRAM

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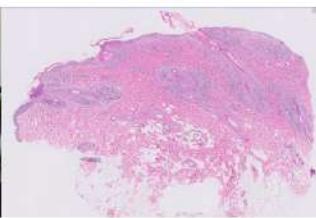
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"Participants are just blown away by the virtual format, content/presentations and quality of cases from both Microscope Wetlabs. They feel like they are able to take more from this experience because they can go at their own pace." -

Dr Barbara McMahill
ISVD Past President



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SOCIETY OF
TOXICOLOGIC PATHOLOGY

NEWS FROM THE STP

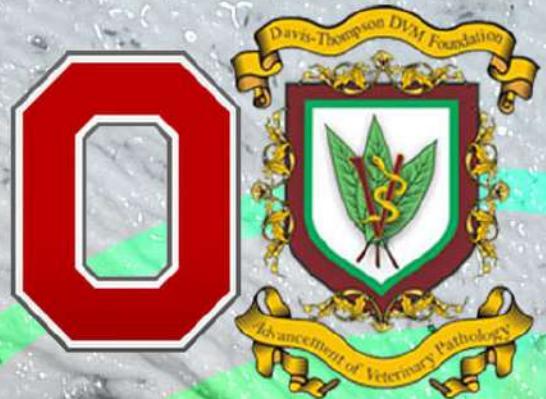
Calling all students and residents curious about toxicologic pathology!

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.

SAVE THE DATE GROSS PATHOLOGY REVIEW COURSE

May 17-21, 2021



Course director: Dr. Krista La Perle
(Laperle.1@osu.edu)

LECTURES ON MACROSCOPIC PATHOLOGY OF:
swine, birds including poultry, reptiles and amphibians, zoo and exotic animals, dogs and cats, fish, non-human primates, laboratory animals, ruminants, wildlife, horses;
Mock exam (ONLY FOR LIVE COURSE)

**Systems approach for domestic species;
Species approach for non-domestic species**

Registration:

Live course; non-DTF members: \$ 350

Live course; DTF members: \$ 250

Re-broadcasting; non-DTF members: \$ 200 (available through June 17, 2021)

Re-broadcasting; DTF members: \$ 100 (available through June 17, 2021)

Register: <https://davisthompsonfoundation.regfox.com/grosspath2021>

2021

U.S. Descriptive Veterinary Pathology Course June 21-25, 2021



Gross descriptive pathology, microscopic descriptive pathology, gross-micro correlations, ultrastructural pathology, and special diagnostic techniques (IHC/ISH/PCR)

THIS YEAR ONLY: significantly increased number of histopathology-based interpretation questions in a mock exam format!



Dr. Jey Koehler
Auburn University
Course director

20
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Dr. Patricia Pesavento
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Dr. Linden Craig
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\$ 200 (available through July 9, 2021)

Re-broadcasting; DTF members: \$ 100
(available through July 9, 2021)

Lectures, active learning and mock exams
(ONLY FOR LIVE COURSE)

Lectures (FOR RE-BROADCASTED COURSE)

Register: <https://davisthompsonfoundation.regfox.com/descriptive-path-course-2021>

Table of Upcoming Events

North America				
Country	Course	Date	Venue	Contact
USA	Free Friday Seminars	Weekly: December 2020 through June 2021	VIRTUAL	Paco Uzal fauzal@ucdavis.edu
	Tuesday Day Seminars	Every second and fourth week: December 2020 through June 2021	VIRTUAL	Paco Uzal fauzal@ucdavis.edu
	Gen Path Review Course	February 1-6, 2021	VIRTUAL	Patricia Pesavento papesavento@ucdavis.edu
	Gross Pathology Review Course	May 17-21 2021	VIRTUAL	Krista La Perle laperle.1@osu.edu
	Descriptive Veterinary Pathology Course	June 21-25 2021	VIRTUAL	Jey Koehler jaw0007@auburn.edu
Oceania				
Country	Course	Date	Venue	Contact
Australia	Saturday seminars	Monthly: January through June 2021	VIRTUAL	Tony Ross tony.rossvetpath@hotmail.com Hanna Bender hanbender@gmail.com
Latin America & Europe				
Country	Course	Date	Venue	Contact
Brazil	Portuguese Virtual seminars	Monthly: January through June 2021	VIRTUAL	Breno Salgado breno.salgado@ufes.br
Latin America & Spain	Spanish Virtual Seminars	Monthly: January through June 2021	VIRTUAL	Paco Uzal fauzal@ucdavis.edu

