



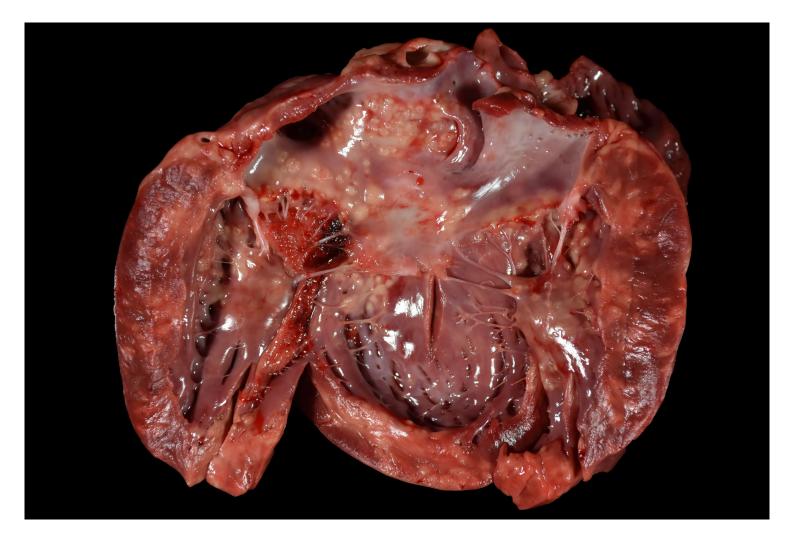
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THE DAVIS-THOMPSON FOUNDATION NEWSLETTER

March 2022

VOL. 52



INSIDE THIS ISSUE

Monthly cover photograph winner: Brianne M. Taylor

Institution: Oklahoma Animal Disease Diagnostic Laboratory, Oklahoma State University, Stillwater, OK

Diagnosis: Pyogranulomatous pancarditis in an adult male Border Collie dog due to infection with Bartonella spp.

- **3** Seminar Reviews
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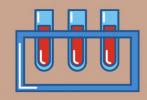
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This was a good comprehensive webinar. It was well presented and illustrated. Very useful.

The seminar is very informative. I watched with interest. Dr. Stern summarized very well such a wide topic.

I give it five stars, it was truly helpful with lots of information and presented in such a clear and user friendly way.

Fantastic. The illustrations used to describe cell morphology were spot on. This lecture covered so much material that it will be prudent to review it several times.



Dr. Jere Stern



It was a great seminar. It was good to remember my clinical pathology classes in university, since it's been a while I studied this subject! Thank you very much!





Case #: 179 Month: December Year: 2021

Question Sheet

Contributors: Vanessa Barraza*, DVM, MS candidate, Mariana Martins Flores*, DVM, MS, Doctor in Veterinary Pathology. *Laboratory of Veterinary Pathology, Universidade Federal de Santa Maria (UFSM), Santa Maria, Rio Grande do Sul, Brazil, mariana.flores@ufsm.br

Clinical History: This heifer came from a group of cattle with chronic diarrhea and emaciation. Some of the animals also had neurological signs, predominantly aggressiveness. Two animals had already died spontaneously after worsening of the clinical signs. The farmer had kept these animals on native pasture during the winter, and he reported that the vegetation had been scarce in that period. On clinical exam, the animals were in bad body condition, with some presenting dyspnea, subcutaneous edema mainly affecting the dewlap, and abdominal distention.

Necropsy Findings: There was marked subcutaneous edema, and the abdominal and thoracic cavities were filled with abundant translucent and slightly yellow effusion (Fig. 1). Additionally, there was mesenteric edema, and the liver was reduced in size, with a diffusely grayish capsular surface and firm consistency (Fig. 2). Histologically, multiple chronic alterations were seen in the liver (Figs. 3-5).

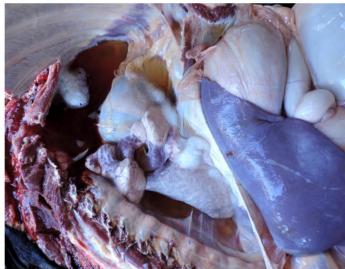


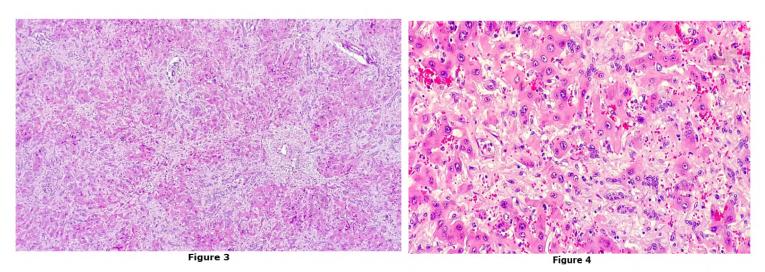
Figure 1



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Figure 2





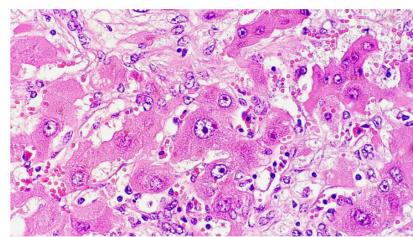


Figure 5

Follow-up Questions:

- What is your morphologic diagnosis?
- What is the mechanism for the cavitary effusions?
- What histologic lesions would you expect to see in the CNS?
- Can you name three possible causes of liver fibrosis in cattle?

Click here for answers

REWIND SERIES



Free Friday Seminar

Friday, March 4, 2022 Rewinding from March 2021

11am-1:00pm CST

Ocular pathology of dogs and cats

Dodd Sledge DVM, PhD, DACVP

FREE FRIDAY WEBINAR



Davis - Thompson Foundation Free Friday Webinar March 11, 2022 11:00 am -12:30 pm CST

Bone Marrow Hitopathology

Rose Raskin DVM, PhD, DACVP, MRCVS

SEMINAR SERIES IN SPANISH



Register for individual seminars here

NORTHEASTERN VETERINARY PATHOLOGY CONFERENCE

2022 NORTHEASTERN VETERINARY PATHOLOGY CONFERENCE

Davis - Thompson Foundation

NEUROPATHOLOGY



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VIRTUAL

DVM, DACVP EQUINE **NEUROPATHOLOGY**

Keynote speakers' presentations + case presentations

9:00AM-5:00 PM (EDT) MARCH 25 AND 26, 2022

EASTERN EUROPEAN VET PATH MEETING

Faculty of Veterinary Medicine, Ss. Cyril and Methodius University in Skopje and Davis-Thompson Foundation

3rd Annual Davis-Thompson Foundation Eastern European Veterinary Pathology Meeting



Hotel Sileks, Ohrid, R. North Macedonia



Registration fee 100 EUR Discounted hotel rates when booked before 31st March 2022



Francisco Uzal DVM, MSc, PhD, DACVP

> Bovine pathology Alimentary diseases of domestic animals

Monika Welle DVM, DECVP, Prof. Dr. med. vet.

Dermatopathology

Trpe Ristoski _{DVM, PhD}

Infectious diseases of dogs and cats

US DESCRIPTIVE PATH COURSE



ANNUAL SYMPOSIUM OF THE EUROPEAN DIVISION



DT FOUNDATION SEMINARS IN LATIN AMERICA

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	4	<i>"</i> "	••••			
Country	Seminar	Main topics	Dates	Speakers	Organizer	Format
Argentina	XVI Argentinean Seminar of the DTF	Avian pathology and Neuropatholo gy	24-25 August	Gabriel Senties Cue, Carmen Jerry, Marti Pumarola Batlle	Rocio Marini; Ana Canal	Hybrid
Bolivia	ll Bolivian Seminar of the DTF	Bovine pathology; porcine respiratory pathology	5-May	Mario Bedolla, Alfonso Lopez	Rodolfo Nallar	Virtual
Brazil	ТВС	ТВС	ТВС	твс	TBC	ТВС
Chile	VII Chilean Meeting of Histopathology	Pathology of fish and mollusks	20-21 Oct	Carlos Sandoval, Paola Barato, Karin Lohrman	Carlos Flores	¥ × Hybrid⊬*
Colombia	твс	ТВС	ТВС	твс	ТВС	ТВС
Costa Rica	l Costa Rican Seminar of the DTF	GI Pathology, respiratory pathology, abortion	25-27 Feb	Leonardo Minatel, Francisco Uzal	Roberto Olivares	Hybrid
Guatemala	III Guatemalan Seminar of the DTF	Cardiovascular pathology	6-Apr-22	Enrique Aburto, Gisela Martinez	Deborah Rodriguez	Virtual
Mexico	IV Mexican Seminar of the DTF	Wildlife pathology	September	Mariela Diaz, Ignacio Rangel, Osvaldo Lopez, Esperanza Yanez, Alfredo Perez, Emily Mitchell, Sarah Clift, Johan Steyl	Ubicelio Martin Orozco	Hybrid
Uruguay	Uruguayan Seminar of the DTF	Respiratory pathology, neuropatholog y	23-24 Aug	Claudio Barros, Francisco Carvallo	Jose Manuel Verdes	Hybrid

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Virtual CES 5: Female Reproductive System Tuesday 8th – Thursday 17th March 2022

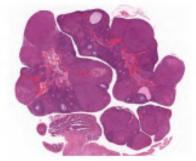
CES 5 will be held over two weeks using Zoom – on the afternoons of Tuesday 8th, Wednesday 9th, Thursday 10th, Tuesday 15th, Wednesday 16th and Thursday 17th March 2022, from 13.00 – 16.30/17.00 (GMT+0, London/UCT+0) each day.

Continuing Professional Development: Approved by the Royal Society of Biology for purposes of CPD, this event may be counted as 53 CPD Credits.

Approximately 17.5 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 give you the opportunity to learn about species differences in the female reproductive tract as well as sexual immaturity, reproductive senescence, neoplasia and related International Harmonization of Nomenclature and Diagnostic Criteria (INHAND) nomenclature. We will also cover regulatory Developmental and Reproductive Toxicology (DART) study packages and endocrine disruption. You will have direct access to international key speakers and exposure to pharmaceutical, agrochemical and biotechnology case studies.

Access to the downloadable course materials and Zoom login information will be provided to all those registered up to one week in advance of the symposium.



Registration is still open; early bird registration ends at midnight on 4th February 2022 – with registration closing at midnight on 18th February 2022.

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

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

BSTP CORNER



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

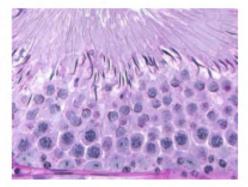
CES 6 will be held over two weeks using Zoom – on the afternoons of Tuesday 5th, Wednesday 6th, Thursday 7th, Tuesday 12th, Wednesday 13th and Thursday 14th July 2022, from 13.00 – 16.30 (GMT+1, London/UCT+1) each day.

Continuing Professional Development: Approved by the Royal Society of Biology for purposes of CPD, this event may be counted as 53 CPD Credits.

Approximately 17.5 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 cover an overview of the male reproductive system in preclinical animal species.

Access to the downloadable course materials and Zoom login information will be provided to all those registered up to one week in advance of the symposium.



Detailed information, including the programme and a registration form will be available soon.

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

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

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Fasy access and in	nclusivity - with current travel restrictions, delegates who live in
	the world and would not otherwise be able to travel to the UK can
now attend.	the world and would not otherwise be able to travel to the UK can
now attenu.	
	ttending the event from home or your office means fewer planes, hich helps reduce everyone's carbon footprint.
Cost effective – n	to travel and accommodation for you to book adding to the cost of
the event.	
	al effort – saving time both for you being away from your family and anises your travel and accommodation.
Networking – stil	I have contact with the speakers and benefit from their experience.
So, break out of	f your comfort zone to learn something new and invest in yourself to
	improve your employment opportunities!
Future BSTP even	nts are due to take place in:
8th - 17th March 202	22 CES 5 - Female Reproductive System
5th – 14th July 2022	CES 6 - Male Reproductive System ber 2022 37th Annual Scientific Meeting & AGM – Digital Patholo
5th – 14th July 2022 10th & 11th Novemb	CES 6 - Male Reproductive System 37th Annual Scientific Meeting & AGM – Digital Patholo and Mouse Pathology Workshop
5th – 14th July 2022 10th & 11th Novemb March 2023	CES 6 - Male Reproductive System 37th Annual Scientific Meeting & AGM – Digital Patholo and Mouse Pathology Workshop CES 7 - Infectious diseases in laboratory animals
5th – 14th July 2022 10th & 11th Novemb March 2023 July 2023	CES 6 - Male Reproductive System 37th Annual Scientific Meeting & AGM – Digital Patholo and Mouse Pathology Workshop CES 7 - Infectious diseases in laboratory animals CES 8 - Nervous System
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5th – 14th July 2022 10th & 11th Novemb March 2023 July 2023 November 2023 March 2024 July 2024 November 2024	CES 6 - Male Reproductive System 37th Annual Scientific Meeting & AGM – Digital Patholo and Mouse Pathology Workshop CES 7 - Infectious diseases in laboratory animals CES 8 - Nervous System 38th Annual Scientific Meeting & AGM CES 9 - Urinary System CES 10 - Digestive System 39th Annual Scientific Meeting & AGM
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8th – 17th March 202 5th – 14th July 2022 10th & 11th Novemb March 2023 July 2023 November 2023 March 2024 July 2024 November 2024 March 2025 July 2025 November 2025 March 2026 July 2026 November 2026 March 2027	CES 6 - Male Reproductive System 37th Annual Scientific Meeting & AGM – Digital Patholog and Mouse Pathology Workshop CES 7 - Infectious diseases in laboratory animals CES 8 - Nervous System 38th Annual Scientific Meeting & AGM CES 9 - Urinary System CES 10 - Digestive System 39th Annual Scientific Meeting & AGM CES 11 - Cardiovascular System CES 12 - Endocrine System 40th Annual Scientific Meeting & AGM CES 13 - Urinary System
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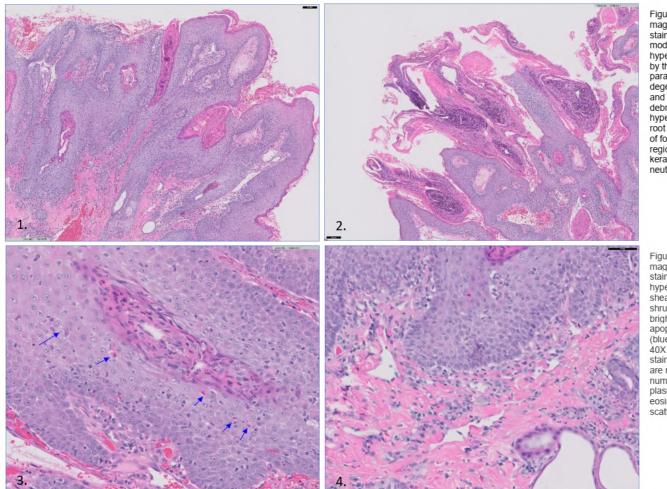
becomes available, you need to make sure that the BSTP have your contact details on the mailing list.

You can withdraw your consent to receive communications from the BSTP at any time, by means

IDEXX CASECONNEXX CORNER

Signalment: 1-year-old, male neutered, domestic shorthair cat

Source/ History: Bilateral ulcerative/proliferative crusty lesions in both ears. Bleeds easily when crusts are removed.



Microscopic Description:

Diffusely, there is moderate to marked epidermal hyperplasia and follicular epithelial hyperplasia with mild spongiosis. Covering the surface and multifocally dilating infundibular regions are thick crusts and aggregates of parakeratotic keratin, degenerate cells (neutrophils) and proteinaceous debris. Frequently in the outer root sheath, and occasionally in the epidermis, there are many individual, shrunken, angular, brightly eosinophilic apoptotic/dead keratinocytes. There is multifocal mild neutrophilic exocytosis. Within the dermis are mild to moderate numbers of perivascular to interstitial lymphocytes, plasma cells, eosinophils, and scattered mast cells. There is often congestion in the dermis. A few superficial vessels/lymphatics in the superficial dermis contain luminal aggregates of fibrin and degenerate nuclear debris.

Microscopic Interpretation: Moderate to marked, diffuse, hyperplastic, proliferative, lymphoplasmacytic and eosinophilic otitis externa with epidermal and follicular parakeratotic hyperkeratosis, apoptotic/dead keratinocytes, mild spongiosis, neutrophilic exocytosis, and serocellular crusts

Comments:

Histologic findings in conjunction with the signalment and clinical description of the lesions are consistent with proliferative and necrotizing ottits of kittens. Proliferative and necrotizing ottits of kittens is a rare condition of uncertain cause that occurs primarily in cats less than 1 year of age, but has also been reported in adult cats. In kittens the lesions often regress by 12-24 months of age. However, lesions in older cats or with an uncharacteristic distribution may be persistent. Lesions are usually well demarcated erythematous plaques with adherent thick keratin debris on the medial pinnae, the entrance to the auditory canal and the preauricular region.

References: Gross TL et al. Skin Diseases of the Dog and Cat. 2nd ed. Oxford, UK: Blackwell Science; 2005:75, 79-80; Mauldin EA et al. Proliferative and necrotizing otitis externa in four cats. Vet Dermatol. 2007;18:370-377.

Figures 1 and 2, (10X magnification, H&E stain). The epidermis is moderately to markedly hyperplastic and covered by thick crusts of parakeratotic keratin, degenerate neutrophils, and proteinaceous debris There is hyperplasia of the outer root sheath and dilation of follicular infundibular regions by parakeratotic keratin and degenerate neutrophils.

Figure 3. (40X magnification, H&E stain). Within the hyperplastic outer root sheath are many shrunken, angular, brightly eosinophilic apoptotic keratinocytes (blue arrows). Figure 4. (40X magnification, H&E stain). Within the dermis are mild to moderate numbers of lymphocytes, plasma cells, eosinophils, and scattered mast cells





VETERINARY PATHOLOGY: CALL FOR MANUSCRIPTS ON VETERINARY AND COMPARATIVE DERMATOPATHOLOGY

Veterinary dermatopathology is a growing discipline that has become well established in the past thirty years. The pathologist-dermatologist relationship is crucial for dermatopathology work. The broad scope of cutaneous disorders ranging from inflammatory, dysplastic, degenerative to neoplastic is the great challenge in dermatopathology, but also what make every day unique and captivating. Over the past years, several foundational veterinary dermatopathologists have retired leaving a need to train a new generation in this fascinating field. The main goal of this special issue is to build a community of authors and readers to develop a network that will contribute to continued advancements, new ideas and research directions.

The journal, *Veterinary Pathology*, is issuing a call for manuscripts for a special focus on the topic of "Veterinary and Comparative Dermatopathology" and encourages submission of relevant review papers or primary research.

Veterinary Pathology is the journal of the American College of Veterinary Pathologists, the European College of Veterinary Pathologists, and the Japanese College of Veterinary Pathologists.

Reviews and research manuscripts for the special issue should focus on one or more of:

- insights on pattern analysis in veterinary dermatopathology;
- naturally occurring inflammatory or neoplastic skin diseases of animals, or laboratory animal models that contribute to the understanding of these conditions;
- light, fluorescence, and electron microscopy, immunohistochemistry, immunology, molecular biology, and genetics, provided the principal focus is dermatopathology;
- address disease mechanisms (pathogenesis, pathophysiology), pathologic findings and/or correlations among pathologic, clinical and laboratory findings;
- highlight diagnostic approaches to challenges in veterinary and comparative dermatopathology (e.g. alopecia, vasculitis, interface dermatitis)
- comprehensive reviews of a topic relevant to diagnostic dermatopathology in domestic animals.

Authors are invited to send a statement of interest including a title and short abstract (\leq 250 words) to the guest editors, Dr. Verena Affolter, Dr. Joanne Mansell, Dr. Charles Bradley, and Dr. Barbara McMahill. Statements should be sent by April 1st 2022. The guest editors will contact the corresponding author via e-mail regarding submission status and next steps.

Veterinary Pathology is the premier international publication of basic and applied research involving domestic, laboratory, wildlife, marine and zoo animals, and poultry. Bridging the divide between natural and experimental diseases, the journal details the diagnostic investigations of natural and emerging diseases of animals; reports experimental studies enhancing understanding of the mechanisms of specific processes including cancer, infection, immunologic, metabolic and genetically mediated diseases; provides unique insights into animal models of human disease; and presents studies in identification and characterization of environmental (food, plant and chemical) and pharmaceutical hazards.

Manuscripts considered for publication must:

- 1. have significant importance to animal and/or human health,
- 2. include new knowledge supported by valid data,
- 3. address disease mechanisms (pathogenesis, pathophysiology), or pathologic findings in important new or emerging diseases, or clinico-pathologic correlations,
- 4. AND be of sufficiently broad interest to be of substantial value to veterinary pathologists.

Paola Roccabianca Editor, Veterinary Pathology

Jeff Caswell Editor-in-Chief, Veterinary Pathology

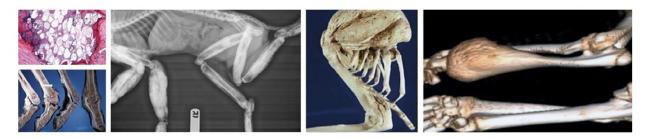
Discover an Extraordinary Compilation of Complimentary Bone Pathology Slideshows

Roy Pool, DVM, PhD, Clinical Professor, Veterinary Pathobiology, and the Department of Small Animal Clinical Sciences in the College of Veterinary Medicine and Biomedical Sciences at Texas A&M University, want to share an extensive group of Bone Pathology PowerPoint slideshows.



Dr. Pool has collected common and uncommon bone pathology cases and examples for decades. The slideshows include seminars, lectures, and collections containing thousands of images and explanations of bone tumors; lesions; oral, dental, and pharyngeal disorders and tumors; and orthopedic disorders.

Review the extensive collection, download resources of interest, and use these resources in your own lectures and presentations at: https://veteducator.com/bone-path-library.



Contact the Center for Educational Technologies (CET) Help Desk at **cethelpdesk@cvm.tamu.edu** with any questions or for technical assistance.





Veterinary Medicine & Biomedical Sciences

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



www.vcgp.org is now live!

The goal of the website and the mission of VCGP is to improve care for animals with cancer through standardization of tumor evaluation and reporting. This website provides guidelines for assessing common parameters used in the light microscopic assessment of animal tumors as well as complete protocols recommended for investigators seeking to establish tumor grading systems. VCGP created this website to maintain these guidelines and protocols as centralized resources for veterinary anatomic and clinical pathologists to assist in reporting and gathering relevant information about aggressive tumors. Detailed protocols and guidelines are educational and research resources while the concise versions are user ready checklists for diagnosticians and editors/reviewers of manuscripts. These are living documents that will be updated and are continuations of manuscripts published by our veterveterinary pathologist colleagues.

See: International Guidelines for Veterinary Tumor Pathology: A Call to Action - https://doi.org/10.1177/03009858211013712



It's sweater weather! Grab a cozy Davis-Thompson Foundation sweater to get you through this winter and to show off the mighty pathologist that you are! Get it HERE





...and T-shirts are still available!

Surgical Pathology of Tumors of Domestic Animals

Edited by M. Kiupel



Volume 4: Tumors of Bone, Cartilage and Other Hard Tissues

K. Dittmer, P. Roccabianca, C. Bell, B. G. Murphy, R. A. Foster, J. L. Scruggs, F. Y. Schulman, D. Thompson, G. Avallone, M. Kiupel

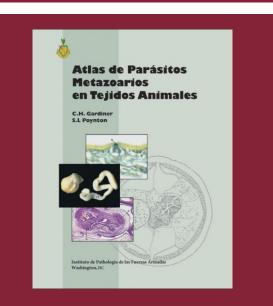
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RETIRING?

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, 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.

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 offcampus experience. For more information, contact Dr. Jim Britt, jobritt@sbcglobal.net; 501-912-1449.



Atlas De Parasitos Metazoarios En Tejidos Animales - Click Here to Get a Digital Download!



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