

Michael J. Dark

Executive Director, Veterinary Diagnostic Laboratories
Clinical Associate Professor

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Curriculum Vitae

January 2023

Education

Degrees

A tibble: 3 x 5

##	what	when	with	where	why
##	<chr>	<chr>	<chr>	<chr>	<lis>
## 1	Ph.D. - Veterinary Microbiology and Pathology	2008	Pullman, WA	Wash~	<chr>
## 2	D.V.M.	2001	East Lansing,~	Mich~	<chr>
## 3	B.S. - Veterinary Medicine	1999	East Lansing,~	Mich~	<chr>

Board Certification

A tibble: 1 x 3

##	what	when	with
##	<chr>	<dbl>	<chr>
## 1	American College of Veterinary Pathology	2011	Diplomate

Other Training

A tibble: 1 x 3

##	what	when	with
##	<chr>	<dbl>	<chr>
## 1	Veterinary Communication Project Faculty Development Program	2016	Institute ~

Employment

A tibble: 5 x 5

##	what	when	with	where	why
##	<chr>	<chr>	<chr>	<chr>	<lis>
## 1	Executive Director, Veterinary Diagnostic Laboratories	"201~	Gain~	Univ~	<chr>
## 2	Clinical Associate Professor	"201~	Gain~	Univ~	<chr>
## 3	Clinical Associate Professor	"200~	Gain~	Univ~	<chr>
## 4	Post-DVM Graduate Research Assistant	"200~	Pull~	Wash~	<chr>
## 5	Associate Veterinarian	"200~	Gran~	Anim~	<chr>

Professional Licensure

A tibble: 3 x 5

##	what	when	with	where	why
##	<chr>	<chr>	<chr>	<chr>	<list>
## 1	State of Florida	Veterinarian	2009-Present	VM10814	<chr [0]>
## 2	State of Washington	Veterinarian	2002-2008	VT00006950	<chr [0]>
## 3	State of Michigan	Veterinarian	2001-2002	6901008638	<chr [0]>

Honors and Awards

A tibble: 6 x 3

##	what	when	with
##	<chr>	<dbl>	<chr>

## 1 Barbara Jean Thompson Award for Outstanding Service	2018 Davi~
## 2 Special Achievement Award for Research Teams, Laboratories or Age~	2015 Flor~
## 3 Graduate student travel grant	2006 Amer~
## 4 Graduate student travel grant	2006 Firs~
## 5 Dr. Robert F. Langham Diagnostic Pathology Award	2001 Mich~
## 6 Best Graduate Student Presentation	2000 39th~

Publications

Journal Articles

1. Aubreville, M., Stathonikos, N., Bertram, C. A., Klopffleisch, R., Hoeve, N. T., Ciompi, F., Wilm, F., Marzahl, C., Donovan, T. A., Maier, A., Breen, J., Ravikumar, N., Chung, Y., Park, J., Nateghi, R., Pourakpour, F., Fick, R. H. J., Hadj, S. B., Jahanifar, M., ... Breininger, K. (2023). Mitosis domain generalization in histopathology images - the MIDOG challenge. *Medical Image Analysis*, 84, 102699. <https://doi.org/10.1016/j.media.2022.102699>
2. Engelen, J. L., Lejeune, A. T., **Dark, M. J.**, R. J., & Shiomitsu, K. (2022). RNA in situ hybridisation as a molecular diagnostic technique targeting IBA-1 and CD204 in canine histiocytic sarcoma. *Veterinary Medicine and Science*, 8(4), 1400–1408. <https://doi.org/10.1002/vms3.795>
3. Rai, T., Morisi, A., Bacci, B., Bacon, N. J., **Dark, M. J.**, T., Thomas, S. A., Bober, M., La Ragione, R., & Wells, K. (2022). Deep learning for necrosis detection using canine perivascular wall tumour whole slide images. *Scientific Reports*, 12(1), 10634. <https://doi.org/10.1038/s41598-022-13928-1>
4. Hobbs, K. J., Porter, E., Wait, C., **Dark, M.**, & MacKay, R. J. (2022). Magnetic resonance imaging of the normal equine pituitary gland. *Veterinary Radiology & Ultrasound*, 63(4), 450–455. <https://doi.org/10.1111/vru.13072>
5. Diehl, B., Grosso, F., Iredale, M., **Dark, M. J.**, Cabrera, C. (2022). Congenital hypospadias and vertebral malformation in a barbados blackbelly neonate. *Clinical Theriogenology*, 14, 47.
6. Meuten, D. J., Moore, F. M., Donovan, T. A., Bertram, C. A., Klopffleisch, R., Foster, R. A., Smedley, R. C., **Dark, M. J.**, M., Stromberg, P., Williams, B. H., Aubreville, M., Avallone, G., Bolfa, P., Cullen, J., Dennis, M. M., Goldschmidt, M., Luong, R., Miller, A. D., ... Whitley, D. (2021). International guidelines for veterinary tumor pathology: A call to action. *Veterinary Pathology*, 58(5), 766–794. <https://doi.org/10.1177/03009858211013712>
7. Quesada, J., Londoño, L., Buckley, G. J., **Dark, M. J.**, J. C., & Farina, L. L. (2021). Retrospective study of gross and histopathologic lesions associated with closed chest cardiopulmonary resuscitation in dogs. *The Journal of Small Animal Practice*, 62(9), 750–755. <https://doi.org/10.1111/jsap.13349>
8. Fisher, C. J., Lejeune, A. T., **Dark, M. J.**, O. M., & Shiomitsu, K. (2021). Evaluation of ponatinib in vitro effect in three canine mast cell tumor cell lines expressing FGFR-1, PDGFR-, and VEGFR-2. *Veterinary Journal (London, England : 1997)*, 269, 105621. <https://doi.org/10.1016/j.tvjl.2021.105621>
9. Cascio, M. J., Whitley, E. M., Sahay, B., Cortes-Hinojosa, G., Chang, L.-J., Cowart, J., Salute, M., Sayour, E., **Dark, M.**, Sandoval, Z., Mitchell, D. A., & Milner, R. J. (2021). Canine osteosarcoma checkpoint expression correlates with metastasis and t-cell infiltrate. *Veterinary Immunology and Immunopathology*, 232, 110169. <https://doi.org/10.1016/j.vetimm.2020.110169>
10. Darby, S., Porter, E., Beatty, S. S. K., **Dark, M. J.**, A., Toribio, R. E., & Gomez, D. E. (2020). Primary hyperparathyroidism in a quarter horse mare associated with a chief cell adenoma. *Journal of Equine Veterinary Science*, 95, 103302. <https://doi.org/10.1016/j.jevs.2020.103302>
11. Abed, F. M., Brown, M. A., Al-Mahmood, O. A., & **Dark, M. J.** SDHB and SDHA immunohistochemistry in canine pheochromocytomas. *Animals : An Open Access Journal from MDPI*, 10(9). <https://doi.org/10.3390/ani10091683>
12. Verpaalen, V. D., Case, J. B., **Dark, M. J.**, S. J., Winter, M. D., Boston, S. E., Garcia-Pereira, F., Rhoton-Vlasak, A. S., & Toskich, B. B. (2020). Feasibility and efficacy of ultrasonographic and laparo-

- scopic guidance for microwave ablation of clinically normal canine ovaries. *American Journal of Veterinary Research*, 81(9), 747–754. <https://doi.org/10.2460/ajvr.81.9.747>
13. Whipple, K. M., Kieran, E. A., **Dark, M. J.**, Beatty, S. S. (2020). What is your diagnosis? Cutaneous mass from a shar-pei dog. *Veterinary Clinical Pathology*, 49(2), 365–366. <https://doi.org/10.1111/vcp.12854>
 14. Herman, E. J., Stern, A. W., Fox, R. J., & **Dark, M. J.** Understanding the efficiency of splenic hemangiosarcoma diagnosis using monte carlo simulations. *Veterinary Pathology*, 56(6), 856–859. <https://doi.org/10.1177/0300985819868732>
 15. Conrado, F. O., **Dark, M. J.**, Beatty, S. S. K. (2019). Pathology in practice. *Journal of the American Veterinary Medical Association*, 255(3), 309–312. <https://doi.org/10.2460/javma.255.3.309>
 16. Conrado, F. O., Spoldi, E., Kieran, E. A., **Dark, M. J.**, Leissinger, M. K. (2019). Fine-needle aspirate of a large mass in the ventral peritoneal space of a dog. *Veterinary Clinical Pathology*, 48(2), 355–357. <https://doi.org/10.1111/vcp.12716>
 17. Oramas, A., Case, J. B., Toskich, B. B., Fox-Alvarez, W. A., Boston, S. E., Giglio, R. F., & **Dark, M. J.** Laparoscopic access to the liver and application of laparoscopic microwave ablation in 2 dogs with liver neoplasia. *Veterinary Surgery : VS*, 48(S1), O91–O98. <https://doi.org/10.1111/vsu.13153>
 18. Coffman, J. M., McConkey, M., Ellison, G., Huynh, E., & **Dark, M. J.** Complete urogenital and anorectal duplication in a dog. *Case Reports in Veterinary Medicine*, 2019, 3696978. <https://doi.org/10.1155/2019/3696978>
 19. Sahay, B., Aranyos, A. M., Mishra, M., McAvoy, A. C., Martin, M. M., Pu, R., Shiomitsu, S., Shiomitsu, K., **Dark, M. J.**, M. P., Roff, S. R., Rathore, M. H., & Yamamoto, J. K. (2019). Immunogenicity and efficacy of a novel multi-antigenic peptide vaccine based on cross-reactivity between feline and human immunodeficiency viruses. *Viruses*, 11(2). <https://doi.org/10.3390/v11020136>
 20. Prakoso, D., **Dark, M. J.**, A. F., Salemi, M., Barr, K. L., Liu, J. J., Wenzlow, N., Waltzek, T. B., & Long, M. T. (2018). Viral enrichment methods affect the detection but not sequence variation of west nile virus in equine brain tissue. *Frontiers in Veterinary Science*, 5, 318. <https://doi.org/10.3389/fvets.2018.00318>
 21. Levings, R. S. W., Broome, T. A., Smith, A. D., Rice, B. L., Gibbs, E. P., Myara, D. A., Hyddmark, E. V., Nasri, E., Zarezadeh, A., Levings, P. P., Lu, Y., White, M. E., Dacanay, E. A., Foremny, G. B., Evans, C. H., Morton, A. J., Winter, M., **Dark, M. J.**, D. M., ... Ghivizzani, S. C. (2018). Gene therapy for osteoarthritis: Pharmacokinetics of intra-articular self-complementary adeno-associated virus interleukin-1 receptor antagonist delivery in an equine model. *Human Gene Therapy. Clinical Development*, 29(2), 90–100. <https://doi.org/10.1089/humc.2017.142>
 22. Levings, R. S. W., Smith, A. D., Broome, T. A., Rice, B. L., Gibbs, E. P., Myara, D. A., Hyddmark, E. V., Nasri, E., Zarezadeh, A., Levings, P. P., Lu, Y., White, M. E., Dacanay, E. A., Foremny, G. B., Evans, C. H., Morton, A. J., Winter, M., **Dark, M. J.**, D. M., ... Ghivizzani, S. C. (2018). Self-complementary adeno-associated virus-mediated interleukin-1 receptor antagonist gene delivery for the treatment of osteoarthritis: Test of efficacy in an equine model. *Human Gene Therapy. Clinical Development*, 29(2), 101–112. <https://doi.org/10.1089/humc.2017.143>
 23. Dornbusch, J. A., Lewis, D. D., Winter, M. D., & **Dark, M. J.** Atypical stenosing tenosynovitis of the abductor pollicis longus ascribed to proliferative fibrosis of the extensor retinaculum in a 10-year-old french bulldog. *Australian Veterinary Practitioner*, 48(1), 14.
 24. Rousselet, E., Souza, C. H. D. M., Wellehan, J. F. X., Epperson, E. D., **Dark, M. J.**, Wamsley, H. L. (2017). Cutaneous iridophoroma in a green iguana (*Iguana iguana*). *Veterinary Clinical Pathology*, 46(4), 625–628. <https://doi.org/10.1111/vcp.12536>
 25. Eiden, A. L., Kaufman, P. E., Oi, F. M., **Dark, M. J.**, J. R., & Miller, R. J. (2017). Determination of metabolic resistance mechanisms in pyrethroid-resistant and fipronil-tolerant brown dog ticks. *Medical and Veterinary Entomology*, 31(3), 243–251. <https://doi.org/10.1111/mve.12240>
 26. Payne, C. L., **Dark, M. J.**, J. A., & Farina, L. L. (2017). A retrospective study of the prevalence of calcium oxalate crystals in veterinary aspergillus cases. *Journal of Veterinary Diagnostic Investigation :*

- Official Publication of the American Association of Veterinary Laboratory Diagnosticians, Inc, 29(1), 51–58. <https://doi.org/10.1177/1040638716672254>
27. Yang, T., Case, J. B., Boston, S., **Dark, M. J.**, Toskich, B. (2017). Microwave ablation for treatment of hepatic neoplasia in five dogs. *Journal of the American Veterinary Medical Association*, 250(1), 79–85. <https://doi.org/10.2460/javma.250.1.79>
 28. Noh, S. M., **Dark, M. J.**, K. E., Ueti, M. W., Kappmeyer, L. S., Scoles, G. A., Palmer, G. H., & Brayton, K. A. (2016). Superinfection exclusion of the ruminant pathogen anaplasma marginale in its tick vector is dependent on the time between exposures to the strains. *Applied and Environmental Microbiology*, 82(11), 3217–3224. <https://doi.org/10.1128/AEM.00190-16>
 29. Abed, F. M., & **Dark, M. J.** Determining the utility of veterinary tissue archives for retrospective DNA analysis. *PeerJ*, 4, e1996. <https://doi.org/10.7717/peerj.1996>
 30. Taylor, K. R., Garner, M. M., Russell, K., Epperson, E. D., Grodi, H. A., Roff, S. R., Dumonceaux, G. A., Struthers, J. D., **Dark, M. J.**, Abbott, J. R. (2016). Chordomas at high prevalence in the captive population of the endangered perdidio key beach mouse (peromyscus polionotus trissyllepsis). *Veterinary Pathology*, 53(1), 163–169. <https://doi.org/10.1177/0300985815575051>
 31. Craft, W. F., Conway, J. A., & **Dark, M. J.** Comparison of histomorphology and DNA preservation produced by fixatives in the veterinary diagnostic laboratory setting. *PeerJ*, 2, e377. <https://doi.org/10.7717/peerj.377>
 32. Kelly, P. J., Lucas, H. M., Randolph, C. M., Ackerson, K., Blackburn, J. K., & **Dark, M. J.** Efficacy of slow-release tags impregnated with aggregation-attachment pheromone and deltamethrin for control of amblyomma variegatum on st. Kitts, west indies. *Parasites & Vectors*, 7, 182. <https://doi.org/10.1186/1756-3305-7-182>
 33. Miller, J. L., & **Dark, M. J.** Evaluation of the effect of formalin fixation on skin specimens in dogs and cats. *PeerJ*, 2, e307. <https://doi.org/10.7717/peerj.307>
 34. **Dark, M. J.** Whole-genome sequencing in bacteriology: State of the art. *Infection and Drug Resistance*, 6, 115–123. <https://doi.org/10.2147/IDR.S35710>
 35. Leone, A., **Dark, M.**, Kondo, H., Rotstein, D. S., Kiupel, M., Walsh, M. T., Erlacher-Reid, C., Gordon, N., & Conway, J. A. (2013). GASTROINTESTINAL LEIOMYOSARCOMA IN a PYGMY SPERM WHALE. 44(3), 744–748. <https://doi.org/10.1638/2012-0147r.1>
 36. Watson, R. S., Broome, T. A., Levings, P. P., Rice, B. L., Kay, J. D., Smith, A. D., Gouze, E., Gouze, J.-N., Dacanay, E. A., Hauswirth, W. W., Nickerson, D. M., **Dark, M. J.**, P. T., & Ghivizzani, S. C. (2013). scAAV-mediated gene transfer of interleukin-1-receptor antagonist to synovium and articular cartilage in large mammalian joints. *Gene Therapy*, 20(6), 670–677. <https://doi.org/10.1038/gt.2012.81>
 37. Pierl'e, S. A., **Dark, M. J.**, D., Palmer, G. H., & Brayton, K. A. (2012). Comparative genomics and transcriptomics of trait-gene association. *BMC Genomics*, 13, 669. <https://doi.org/10.1186/1471-2164-13-669>
 38. Hostnik, E. T., Wickins, S. C., Conway, J. A., & **Dark, M. J.** Ocular and olfactory forebrain abnormalities within a neonatal alpaca (vicugna pacos). *The Journal of Veterinary Medical Science*, 74(7), 945–947. <https://doi.org/10.1292/jvms.11-0558>
 39. **Dark, M. J.**, A. M., & Barbet, A. F. (2012). Determining the repertoire of immunodominant proteins via whole-genome amplification of intracellular pathogens. *PloS One*, 7(4), e36456. <https://doi.org/10.1371/journal.pone.0036456>
 40. Smith, K. M., Clark, C. K., **Dark, M. J.**, M., & Gary, J. (2012). T cell rich, b cell lymphoma in the small colon of a yearling horse. *Equine Veterinary Education*, 25(2), 74–78. <https://doi.org/10.1111/j.2042-3292.2012.00398.x>
 41. **Dark, M. J.**, B., & Barbet, A. F. (2011). Multistrain genome analysis identifies candidate vaccine antigens of anaplasma marginale. *Vaccine*, 29(31), 4923–4932. <https://doi.org/10.1016/j.vaccine.2011.04.131>

42. **Dark, M. J.**, D. R., Kappmeyer, L. S., Gonzales, M. P., Nordeen, E., Palmer, G. H., Knowles, D. P., & Brayton, K. A. (2009). Conservation in the face of diversity: Multistrain analysis of an intracellular bacterium. *BMC Genomics*, 10, 16. <https://doi.org/10.1186/1471-2164-10-16>
43. McKune, C. M., Brosnan, R. J., **Dark, M. J.**, Haldorson, G. J. (2008). Safety and efficacy of intramuscular propofol administration in rats. *Veterinary Anaesthesia and Analgesia*, 35(6), 495–500. <https://doi.org/10.1111/j.1467-2995.2008.00418.x>
44. Nelson, D. D., **Dark, M. J.**, D. S., Ridpath, J. F., Call, N., Haruna, J., Rurangirwa, F. R., & Evermann, J. F. (2008). Evidence for persistent bovine viral diarrhea virus infection in a captive mountain goat (*Oreamnos americanus*). *Journal of Veterinary Diagnostic Investigation : Official Publication of the American Association of Veterinary Laboratory Diagnosticians, Inc*, 20(6), 752–759. <https://doi.org/10.1177/104063870802000606>
45. Fidel, J. L., Pargass, I. S., **Dark, M. J.**, Holmes, S. P. (2008). Granulocytopenia associated with thymoma in a domestic shorthaired cat. *Journal of the American Animal Hospital Association*, 44(4), 210–217. <https://doi.org/10.5326/0440210>
46. Futse, J. E., Brayton, K. A., **Dark, M. J.**, D. P., & Palmer, G. H. (2008). Superinfection as a driver of genomic diversification in antigenically variant pathogens. *Proceedings of the National Academy of Sciences of the United States of America*, 105(6), 2123–2127. <https://doi.org/10.1073/pnas.0710333105>
47. Lopez, J. E., Palmer, G. H., Brayton, K. A., **Dark, M. J.**, S. E., & Brown, W. C. (2007). Immunogenicity of anaplasma marginale type IV secretion system proteins in a protective outer membrane vaccine. *Infection and Immunity*, 75(5), 2333–2342. <https://doi.org/10.1128/IAI.00061-07>
48. Noh, S. M., Brayton, K. A., Knowles, D. P., Agnes, J. T., **Dark, M. J.**, W. C., Baszler, T. V., & Palmer, G. H. (2006). Differential expression and sequence conservation of the anaplasma marginale msp2 gene superfamily outer membrane proteins. *Infection and Immunity*, 74(6), 3471–3479. <https://doi.org/10.1128/IAI.01843-05>
49. Brayton, K. A., Kappmeyer, L. S., Herndon, D. R., **Dark, M. J.**, D. L., Palmer, G. H., McGuire, T. C., & Knowles, D. P. (2005). Complete genome sequencing of anaplasma marginale reveals that the surface is skewed to two superfamilies of outer membrane proteins. *Proceedings of the National Academy of Sciences of the United States of America*, 102(3), 844–849. <https://doi.org/10.1073/pnas.0406656102>
50. Bell, T. G., Butler, K. L., Sill, H. B., Stickle, J. E., Ramos-Vara, J. A., & **Dark, M. J.** Autosomal recessive severe combined immunodeficiency of jack russell terriers. *Journal of Veterinary Diagnostic Investigation : Official Publication of the American Association of Veterinary Laboratory Diagnosticians, Inc*, 14(3), 194–204. <https://doi.org/10.1177/104063870201400302>
51. Meek, K., Kienker, L., Dallas, C., Wang, W., **Dark, M. J.**, P. J., Huie, M. L., Hirschhorn, R., & Bell, T. (2001). SCID in jack russell terriers: A new animal model of DNA-PKcs deficiency. *Journal of Immunology (Baltimore, Md. : 1950)*, 167(4), 2142–2150. <https://doi.org/10.4049/jimmunol.167.4.2142>

Book Chapters

1. **Dark, M. J.** Mycobacterial species. In *Foodborne infections and intoxications* (pp. 337–342). Elsevier. <https://doi.org/10.1016/b978-0-12-416041-5.00024-x>
2. Brayton, K. A., **Dark, M. J.**, Palmer, G. H. (2009). Anaplasma. In V. Nene & C. Kole (Eds.), *Genome mapping and genomics in animal-associated microbes* (pp. 85–116). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-540-74042-1_3

Teaching Experience

University of Florida - Gainesville, FL

A tibble: 7 x 5

what

<chr>

1 Emerging Diseases Issues

when with where why

<chr> <chr> <chr> <lis>

"VEM~ 2009~ Lect~ <chr>

## 2 Large Animal Pathology	"VEM~ 2010~ Lect~ <chr>
## 3 Introduction to Histology and Embryology	"VEM~ 2014~ Lect~ <chr>
## 4 USDA Foreign Animal and Emerging Disease Awareness Co~	" " June~ Coor~ <chr>
## 5 Systemic Pathology	"VEM~ 2010~ Lect~ <chr>
## 6 Systemic Pathology	"VEM~ 2015~ Lect~ <chr>
## 7 Small Animal Pathology	"VEM~ 2009~ Lect~ <chr>

Washington State University - Pullman, WA

## # A tibble: 4 x 5				
## what	when	with	where	why
## <chr>	<chr>	<chr>	<chr>	<lis>
## 1 VM 546	Diagnostic Challenges	2004-		
2~ Faci~ <chr>				
## 2 Veterinary Bacteriology and Mycology VM 536		2005-		
2~ Lect~ <chr>				
## 3 Systemic Pathology Gross Laboratory VM 546		2007	Lect~	<chr>
## 4 Systemic Pathology Gross Laboratory VM 546		2004	Lect~	<chr>

Graduate Students

## # A tibble: 8 x 5				
## what	when	with	where	why
## <chr>	<chr>	<chr>	<chr>	<lis>
## 1 Firas Abed, Ph.D.	Ph.D. Advisor	2014 - 2019	Department~	<chr>
## 2 Lydia Sixta, M.S. Candidate	Committee member	2020 -		
current Department~ <chr>				
## 3 Eric Mccown, Ph.D. Candidate	Committee member	2013 -		
2022 Department~ <chr>				
## 4 Jeffrey Hertz, Ph.D.	Committee member	2014 -		
2016 Department~ <chr>				
## 5 Katherine Sayler, Ph.D.	Committee member	2014	Department~	<chr>
## 6 Junjie Liu, Ph.D.	Committee member	2012-		
2017 Department~ <chr>				
## 7 Liliana Crosby, Ph.D.	Committee member	2009-		
2014 Department~ <chr>				
## 8 Amanda Eiden, Ph.D.	Committee member	2010-		
2013 Department~ <chr>				

Presentations and Invited Lectures

Presentations

## # A tibble: 5 x 5				
## what	when	with	where	why
## <chr>	<chr>	<chr>	<chr>	<lis>
## 1 Multistrain Analysis of Anaplasma marginale	Augu~	Stev~	Amer~	<chr>
## 2 Characterization of genes implicated in rickettsial t~	May ~	Mars~	Fift~	<chr>
## 3 Comparative genomics of Anaplasma marginale strains	Sept~	Asil~	Amer~	<chr>
## 4 SNP-based analysis of a SCID Defect in a Family of Ja~	June~	East~	39th~	<chr>
## 5 An epidemiological study of Mycobacterium paratubercu~	Octo~	San ~	42nd~	<chr>

Invited Lectures

A tibble: 5 x 5

##	what	when	with	where	why
##	<chr>	<chr>	<chr>	<chr>	<lis>
## 1	Standardization of Veterinary Oncologic Pathology - P~ Sept~ via ~ Davi~ <chr>				
## 2	Standardization of Veterinary Oncologic Pathology - P~ Sept~ via ~ Davi~ <chr>				
## 3	Standardization of Veterinary Oncologic Pathology - S~ July~ Braz~ Cong~ <chr>				
## 4	Annual Gross Pathology of Domestic Animals Course	July~	Gain~	Davi~	<chr>
## 5	Necropsy Techniques for Forensic Scientists	May ~	Orla~	Inte~	<chr>

University Service

## #	A tibble: 15 x 5	when	with	where	why
##	what	<chr>	<chr>	<chr>	<lis>
## 1	UF CVM Hospital Board	2020~	<NA>	<NA>	<chr>
## 2	UF CVM Hospital Management Committee	2020~	<NA>	<NA>	<chr>
## 3	University Infrastructure Committee	2016~	<NA>	<NA>	<chr>
## 4	College Research Committee	2009~	<NA>	<NA>	<chr>
## 5	College Information Technology Committee	2010~	<NA>	<NA>	<chr>
## 6	College Information Technology Committee Chair	2015~	<NA>	<NA>	<chr>
## 7	Anatomic Pathology Resident Research Coordinator	2010~	<NA>	<NA>	<chr>
## 8	University Faculty Senate Information Technology Adv~	2013~	<NA>	<NA>	<chr>
## 9	University Faculty Senate - Senator	2015~	<NA>	<NA>	<chr>
## 10	Anatomic Pathology Service Chief	2016~	<NA>	<NA>	<chr>
## 11	College Resident and Internship Committee	2015~	<NA>	<NA>	<chr>
## 12	University Student Technology Fee Grant Committee	2016	<NA>	<NA>	<chr>
## 13	Anatomic Pathology Resident Coordinator	2015~	<NA>	<NA>	<chr>
## 14	College Awards and Scholarship Committee	2012~	<NA>	<NA>	<chr>
## 15	Class of 2018 Faculty Advisor	2014~	<NA>	<NA>	<chr>

Grants

## #	A tibble: 5 x 5	when	with	where	why
##	what	<chr>	<chr>	<chr>	<lis>
## 1	Co-Investigator for NIH grant AI042792, 5% FTE	2015~	<NA>	"Tic~	<chr>
## 2	Co-Investigator for Department of Defense grant PR130~	2014~	<NA>	"Gen~	<chr>
## 3	Primary investigator for USDA TSTAR grant	2010~	<NA>	"Imp~	<chr>
## 4	Primary investigator for NIH grant K08-AI064162	2005~	"	"Ana~	<chr>
## 5	Trainee under NIH T32-AI07025 Immunology Training Gra~	2004~	<NA>	<NA>	<chr>

Professional Service

Professional Organizations

## #	A tibble: 3 x 5	when	with	where	why
##	what	<chr>	<chr>	<chr>	<lis>
## 1	Davis-Thompson Foundation	2017-			
2025	" " Memb~ <chr>				

2 Veterinary Cancer Guidelines and Protocols 2021-

Prese~ <NA> Memb~ <chr>

3 Editorial Board of Infectious Agents and Disease 2022-

prese~ <NA> Revi~ <chr>

Ad-hoc Peer Review:

➤ Medical and Veterinary Entomology	➤ BMC Research Notes
➤ Frontiers in Veterinary Science	➤ Journal of Emerging Investigators
➤ Veterinary Pathology	➤ Parasites and Vectors
➤ Vaccine	➤ Epidemiology and Infection
➤ Veterinary Parasitology	➤ Veterinary Medicine: Research and Reports
➤ Equine Veterinary Journal	➤ Drug Design, Development and Therapy
➤ Molecular Biology Reports	➤ Biotechnic & Histochemistry
➤ Parasites and Vectors	➤ International Journal of Molecular Sciences
➤ Vaccines: Benefits and Risks	➤ Clinical Case Reports
➤ PLoS ONE	➤ Journal of Small Animal Practice
➤ Revista Brasileira de Parasitologia Veterinária (Brazilian Journal of Veterinary Parasitology)	➤ Ciência Rural
➤ American Journal of Veterinary Research	➤ Cancers
➤ BMC Bioinformatics	➤ Applied Sciences
➤ International Journal Of Biotechnology	➤ Animals
➤ British Microbiology Research Journal	➤ Veterinary Surgery

Ad-hoc Grant Reviews

- US / Israel Binational Agricultural Research and Development Fund
- Horserace Betting Levy Board Veterinary Advisory Committee (UK)

External Promotion Reviewer

- Washington State University
- University of California at Davis