





Michael J. Dark

Executive Director, Veterinary Diagnostic Laboratories
Clinical Associate Professor

Curriculum Vitae

January 2023

 P.O. Box 100116
Gainesville, FL 32610-0116
 +1 352 294 4138
 darkmich@ufl.edu
 0000-0002-6547-1298

Education

Degrees

| | | |
|------|---|------------------|
| 2008 | Ph.D. - Veterinary Microbiology and Pathology Washington State University | Pullman, WA |
| 2001 | D.V.M. Michigan State University | East Lansing, MI |
| 1999 | B.S. - Veterinary Medicine Michigan State University | East Lansing, MI |

Board Certification

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| 2011 | American College of Veterinary Pathology Diplomate |
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Other Training

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| 2016 | Veterinary Communication Project Faculty Development Program Institute for Healthcare Communication |
| 2022 | Equine Infectious Anemia (EIA) Testing Certification United States Department of Agriculture |

Employment

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| 2019-Present | Executive Director, Veterinary Diagnostic Laboratories University of Florida College of Veterinary Medicine | Gainesville, FL |
| 2016-2019, 2022-present | Clinical Associate Professor University of Florida College of Veterinary Medicine | Gainesville, FL |
| 2009-2016 | Clinical Associate Professor University of Florida College of Veterinary Medicine | Gainesville, FL |
| 2001-2008 | Post-DVM Graduate Research Assistant Washington State University College of Veterinary Medicine | Pullman, WA |
| 2001-2002 | Associate Veterinarian Animal Emergency Hospital of Kent County | Grand Rapids, MI |

Professional Licensure

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| Veterinarian | State of Florida VM10814 | 2009-Present |
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| Veterinarian | State of Washington VT00006950 | 2002-2008 |
| Veterinarian | State of Michigan 6901008638 | 2001-2002 |

Honors and Awards

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|------|---|
| 2018 | Barbara Jean Thompson Award for Outstanding Service Davis / Thompson Foundation |
| 2015 | Special Achievement Award for Research Teams, Laboratories or Agencies Florida Entomological Society |
| 2006 | Graduate student travel grant American Society of Rickettsiology national meeting, Asilomar, CA |
| 2006 | Graduate student travel grant First International Symposium on the Comparative Biology of the Alphaproteobacteria, Blacksburg, VA |
| 2001 | Dr. Robert F. Langham Diagnostic Pathology Award Michigan State University College of Veterinary Medicine |
| 2000 | Best Graduate Student Presentation 39th Annual North Central Conference of Veterinary Laboratory Diagnosticians, East Lansing, MI |

Publications

Journal Articles

1. Aubreville, M., Stathonikos, N., Bertram, C. A., Klopfleisch, 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., Klopfleisch, 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 laparoscopic 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

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| VEM 5571 | Emerging Diseases Issues Lecturer <ul style="list-style-type: none"> ➤ An overview of the pathologist's role in emerging diseases, as well as information about the intersection of politics and science in emerging diseases. ➤ Review of animal agricultural bioterrorism ➤ Two classroom contact hours per semester, approximately 25 students per class | 2009-Present |
| VEM 5165 | Large Animal Pathology Lecturer <ul style="list-style-type: none"> ➤ A review of diseases of porcine pathology, with a focus on diseases important for boards. ➤ Four classroom contact hours per semester, approximately 30 students per class | 2010-Present |
| VEM 5115 | Introduction to Histology and Embryology Lecturer <ul style="list-style-type: none"> ➤ Team-taught the introduction to histology ➤ Covered an introduction to microscopy, epithelium, glands, connective tissue, bone, and skin ➤ A total of 5 classroom contact hours and 16 laboratory hours with 120 students | 2014 – 2020 |
| | USDA Foreign Animal and Emerging Disease Awareness Course Coordinator <ul style="list-style-type: none"> ➤ Coordinated UF contributions to this three-day course ➤ Hosted bovine and avian necropsy wetlabs for 50 individuals each ➤ Out of 33 total course evaluations, 28 evaluated the necropsy wet lab ➤ Mean score – 4.6 out of 5 ➤ The lab was ranked as the most beneficial part of the course by 10 | June 2013 |
| VEM 5162 | Systemic Pathology Lecturer <ul style="list-style-type: none"> ➤ Hepatic and pancreatic pathology, including common diseases, pathophysiology, and clinical signs. ➤ Three classroom contact hours and four laboratory contact hours per semester, approximately 115 students per class | 2010-2019 |

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| VEM 5162 | Systemic Pathology Lecturer | 2015-2019 |
| | <ul style="list-style-type: none"> ➤ Musculoskeletal and reproductive pathology, including common diseases, pathophysiology, and clinical signs. ➤ Three classroom contact hours and four laboratory contact hours per semester, approximately 115 students per class | |
| VEM 5164 | Small Animal Pathology Lecturer | 2009-2019 |
| | <ul style="list-style-type: none"> ➤ A review of hepatic and pancreatic pathology, including common diseases, pathophysiology, and clinical signs. ➤ Two classroom contact hours per semester, approximately 70 students per class | |

Washington State University - Pullman, WA

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| Diagnostic Challenges | VM 546 Facilitator | 2004-2007, 2013-2017, 2020 |
| | <ul style="list-style-type: none"> ➤ Coordinated cases with non-veterinarian clients ➤ Assisted students in formulating differential diagnoses and learning issues ➤ Reviewed and graded student performance ➤ Approximately twelve contact hours per year – two groups a semester with four to five students per group | |
| VM 536 | Veterinary Bacteriology and Mycology Lecturer | 2005-2007 |
| | <ul style="list-style-type: none"> ➤ Normal gastrointestinal defenses, Escherichia coli, Salmonella spp., and Campylobacter jejuni ➤ Three contact hours per semester, approximately 100 students per class | |
| VM 546 | Systemic Pathology Gross Laboratory Lecturer | 2007 |
| | <ul style="list-style-type: none"> ➤ Introduction, lymphatic system, review lab ➤ Twelve contact hours – four laboratory sections, each with 25 students | |
| VM 546 | Systemic Pathology Gross Laboratory Lecturer | 2004 |
| | <ul style="list-style-type: none"> ➤ Taught all labs, co-wrote and administered the laboratory final ➤ Sixty contact hours – four laboratory sections, each with 25 students | |

Graduate Students

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| Ph.D. Advisor | Firas Abed, Ph.D. Department of Infectious Diseases and Pathology | 2014 – 2019 |
| Committee member | Lydia Sixta, M.S. Candidate Department of Small Animal Clinical Sciences | 2020 - current |
| | ➤ Major Advisor – Rowen Milner | |

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| Committee member | Eric Mccown, Ph.D. Candidate Department of Infectious Diseases and Pathology ➤ Major Advisor – Anthony F. Barbet / Maureen Long | 2013 - 2022 |
| Committee member | Jeffrey Hertz, Ph.D. Department of Entomology and Nematology ➤ Major Advisor – Phil Kaufman | 2014 - 2016 |
| Committee member | Katherine Sayler, Ph.D. Department of Infectious Diseases and Pathology ➤ Major Advisor – Anthony F. Barbet | 2014 |
| Committee member | Junjie Liu, Ph.D. Department of Infectious Diseases and Pathology ➤ Major Advisor – Maureen Long | 2012-2017 |
| Committee member | Liliana Crosby, Ph.D. Department of Infectious Diseases and Pathology ➤ Major Advisor – Anthony F. Barbet | 2009-2014 |
| Committee member | Amanda Eiden, Ph.D. Department of Entomology and Nematology ➤ Major Advisor – Phil Kaufman | 2010-2013 |

Presentations and Invited Lectures

Presentations

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| August 2010 | Multistrain Analysis of Anaplasma marginale American Society for Rickettsiology ➤ Dark, M.J., A.F. Barbet | Stevenson, WA |
| May 2008 | Characterization of genes implicated in rickettsial tick transmission Fifth International Meeting on Rickettsia and Rickettsial Diseases ➤ Dark, M.J. | Marseille, France |
| September 2006 | Comparative genomics of Anaplasma marginale strains American Society for Rickettsiology ➤ Dark, M.J. | Asilomar, CA |
| June 2000 | SNP-based analysis of a SCID Defect in a Family of Jack Russell terriers 39th Annual North Central Conference of Veterinary Laboratory Diagnosticians ➤ Dark, M.J., P. Venta, T.G. Bell, and K.A. Meek | East Lansing, MI |
| October 1999 | An epidemiological study of Mycobacterium paratuberculosis in Michigan livestock San Diego, CA 42nd Annual Meeting of the American Association of Veterinary Laboratory Diagnosticians ➤ Dark, M.J., J. Kaneene, T. Bell, R. Walker, M. Bowman, and B. Steficek | |

Invited Lectures

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| September 2021 | Standardization of Veterinary Oncologic Pathology - Part II Davis-Thompson Foundation and American College of Veterinary Pathologists ➤ Introduction to Synoptic Reporting | via Zoom |
| September 2021 | Standardization of Veterinary Oncologic Pathology - Part I Davis-Thompson Foundation and American College of Veterinary Pathologists | via Zoom |
| July 2021 | Standardization of Veterinary Oncologic Pathology - Synoptic Reporting Congresso Brasileiro de Patologia Veterinária and Davis-Thompson Foundation | Brazil (via Zoom) |
| July 2019 | Annual Gross Pathology of Domestic Animals Course Davis-Thompson Foundation ➤ Course Coordinator and Presenter | Gainesville, FL |
| May 2010 | Necropsy Techniques for Forensic Scientists International Veterinary Forensic Science Association | Orlando, FL |

University Service

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|----------------------|---|
| 2020 – Present | UF CVM Hospital Board |
| 2020 – Present | UF CVM Hospital Management Committee |
| 2016–2019 | University Infrastructure Committee |
| 2009–2012, 2018–2019 | College Research Committee |
| 2010–2019 | College Information Technology Committee |
| 2015–2016 | College Information Technology Committee Chair |
| 2010–2019 | Anatomic Pathology Resident Research Coordinator |
| 2013–2019 | University Faculty Senate Information Technology Advisory Subcommittee |
| 2015–2019 | University Faculty Senate - Senator |
| 2016–2019 | Anatomic Pathology Service Chief |
| 2015–2018 | College Resident and Internship Committee |
| 2016 | University Student Technology Fee Grant Committee |
| 2015–2016 | Anatomic Pathology Resident Coordinator |
| 2012–2015 | College Awards and Scholarship Committee |
| 2014–2018 | Class of 2018 Faculty Advisor |

Grants

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|-----------|--|
| 2015–2020 | Co-Investigator for NIH grant AI042792, 5% FTE “Tick Mammal Interface of Human Granulocytic Anaplasmosis” ➤ Ulrike Munderloh PI, \$3,083,868 total cost |
| 2014–2017 | Co-Investigator for Department of Defense grant PR130999, 5% FTE “Gene Therapy for Prost-traumatic Osteoarthritis” ➤ Steve Ghivizzani PI, \$500,000 direct costs per year |

- 2010-2012 **Primary investigator for USDA TSTAR grant**
 “Improved surveillance and control for the tropical bont tick *Amblyomma americanum*”
- 2005-2008 **Primary investigator for NIH grant K08-AI064162**
 “Anaplasma marginale genes determining tick transmission.”
 ➤ Direct costs: \$380,381 total
- 2004–2005 **Trainee under NIH T32-AI07025 Immunology Training Grant**

Professional Service

Professional Organizations

- 2017-2025 **Davis-Thompson Foundation**
 Member, Board of Directors
 ➤ Migrated Noah’s Arkive and established whole-slide imaging archive
- 2021-Present **Veterinary Cancer Guidelines and Protocols**
 Member, Board of Directors
- 2022-present **Editorial Board of Infectious Agents and Disease**
 Review Editor
 ➤ Frontiers in Medicine, Frontiers in Public Health, and Frontiers in Microbiology

Ad-hoc Peer Review:

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|--|---|
| ➤ 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 |
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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