

PATTI CYNTHIA (CYNDA) CRAWFORD, DVM, PhD

Maddie's Shelter Medicine Program
College of Veterinary Medicine
University of Florida
2015 SW 16th Avenue, PO Box 100126
Gainesville, FL 32610
(352) 273-8723
(352) 392-6125 (fax)
crawfordc@ufl.edu

CURRENT POSITION

Maddie's Clinical Assistant Professor of Shelter Medicine

7/1/2008 - present

EDUCATION

- D.V.M., College of Veterinary Medicine, University of Florida, Gainesville, FL 1985-1989
- Ph.D., Immunology and Infectious Diseases, College of Medicine, Univ. Florida 1978-1984
- M.S., Animal Science, North Carolina State University, Raleigh, NC 1975-1978
- B.S., Animal Science, North Carolina State University, Raleigh, NC 1971-1975

PREVIOUS POSITIONS

1989-1998 Associate Veterinarian, small animal practice, Tallahassee, FL
1997 Charlie Bild V.I.P. Visiting Scholar, College of Veterinary Medicine, University of Florida, Gainesville, FL
1998-2001 Postdoctoral Research Associate, Infectious Disease and Pathology, College of Veterinary Medicine, University of Florida, Gainesville, FL
2001-2008 Assistant Scientist, Small Animal Clinical Sciences, College of Veterinary Medicine, University of Florida, Gainesville, FL

PEER-REVIEWED PUBLICATIONS

1. Cannon SH, Levy JK, Kirk SK, **Crawford PC**, Leutenegger CM, Shuster JJ. Infectious Diseases in Dogs Rescued During Dogfighting Investigations. *Vet J* 2016;211:64-69.
2. Velineni S, Timoney JF, Russell K, Hamlen HJ, Pesavento P, Fortney WD, **Crawford PC**. Clones of *Streptococcus zooepidemicus* from outbreaks of hemorrhagic canine pneumonia and associated immune responses. *Clin Vaccine Immunol* 2014; 21:1246-1252.
3. Polak KC, Levy JK, **Crawford PC**, Leutenegger CM, Moriello KA. Infectious diseases in large-scale cat hoarding investigations. *Vet J* 2014; 201:189-195.
4. Hendricks CG, Levy JK, Tucker SJ, Olmstead SM, **Crawford PC**, Dubovi EJ, Hanlon CA. Tail vaccination in cats: a pilot study. *J Feline Med Surg* 2014; 16:275-280.
5. Anderson TC, **Crawford PC**, Dubovi EJ, Gibbs EP, Hernandez JA. Prevalence of and exposure factors for seropositivity to H3N8 canine influenza virus in dogs with influenza-like illness in the United States. *J Am Vet Med Assoc* 2013; 242:209-216.
6. Anderson TC, **Crawford PC**, Katz JM, Dubovi EJ, Landolt G, Gibbs EPJ. Diagnostic performance of the canine influenza A virus subtype H3N8 hemagglutination assay. *J Vet Diagn Invest* 2012; 24:499-508.
7. Gray LK, **Crawford PC**, Levy JK. Comparison of two screening tests for canine parvovirus and canine distemper virus antibodies in shelter dogs. *J Am Vet Med Assoc* 2012; 240:1084-1087.
8. Anderson TC, Bromfield CR, **Crawford PC**, Dodds WJ, Gibbs EP, Hernandez JA. Serological evidence of H3N8 canine influenza-like virus circulation in USA dogs prior to 2004. *Vet J* 2012; 191:312-316.

9. Gordy JT, Jines CA, Rue J, **Crawford PC**, Levy JK, Stallnecht DE, Tripp RA, Tompkins SM. Surveillance of feral cats for influenza A virus in north central Florida. *Influenza Other Respi Viruses* 2012; 6:341-347.
10. Anderson TC and **Crawford PC**. Diagnosing H3N8 CIV infection. *NAVC Clinician's Brief* 2011; Oct:69-72.
11. Silvestre FT, Carvalho TS, **Crawford PC**, Santos JE, Staples CR, Jenkins T, Thatcher WW. Effects of differential supplementation of fatty acids during the peripartum and breeding periods of Holstein cows: II. Neutrophil fatty acids and function, and acute phase proteins. *J Dairy Sci* 2011; 94:2285-2301.
12. De Benedictis P, Anderson TC, Prerez A, Viale E, Veggiato C, Tiozzo Caenazzo S, **Crawford PC**, Capua I. A diagnostic algorithm for detection of antibodies to influenza A viruses in dogs in Italy (2006-2008). *J Vet Diagn Invest* 2010; 22:914-920.
13. Ryan C, Giguere S, Fultz L, Long MT, **Crawford PC**. Effects of two commercially available immunostimulants on leukocyte function of foals following ex vivo exposure to *Rhodococcus equi*. *Vet Immunol Immunopathol* 2010; 138:198-205.
14. Lechner ES, **Crawford PC**, Levy JK, Edinboro CH, Dubovi EJ, Caligiuri R. Prevalence of protective antibody titers for canine distemper and canine parvovirus in dogs entering a Florida animal shelter. *J Am Vet Med Assoc* 2010; 236:1317-1321.
15. Tzipory N, **Crawford PC**, Levy JK. Prevalence of *Dirofilaria immitis*, *Ehrlichia canis*, and *Borrelia burgdorferi* in pet dogs, racing greyhounds, and shelter dogs in Florida. *Vet Parasitol* 2010; 171:136-139.
16. Castleman WL, Powe JR, **Crawford PC**, Gibbs EP, Dubovi EJ, Donis RO, Hanshaw D. Canine H3N8 influenza virus infection in dogs and mice. *Vet Pathol* 2010; 47:507-517.
17. Lu Z, Dubovi EJ, Zylich NC, **Crawford PC**, Sells S, Go YY, Loynachan AT, Timoney PJ, Chambers TM, Balasuriya UB. Diagnostic application of H3N8-specific equine influenza real-time reverse transcription polymerase chain reaction assays for the detection of Canine influenza virus in clinical specimens. *J Vet Diagn Invest* 2010; 22:942-945.
18. Payungporn S, **Crawford PC**, Kouo TS, Chen LM, Pompey J, Castleman WL, Dubovi EJ, Katz JM, Donis RO. Influenza A virus (H3N8) in dogs with respiratory disease, Florida. *Emerg Infect Dis* 2008; 14(6):902-908.
19. Levy JK, **Crawford PC**, Hartmann K, Hofmann-Lehmann R, Little S, Sundahl E, Thayer V. 2008 American Association of Feline Practitioners' feline retrovirus management guidelines. *J Feline Med Surg* 2008; 10:300-316.
20. Reese MJ, Patterson EV, Tucker SJ, Dubovi EJ, Davis RD, **Crawford PC**, Levy JK. Effects of anesthesia and surgery on serologic responses to vaccination in kittens. *J Am Vet Med Assoc* 2008; 233:116-121, 2008.
21. Levy JK, **Crawford PC**, Kusuhara H, Motokawa K, Gemma T, Watanabe R, Arai S, Bienzle D, Hohdatsu T. Differentiation of feline immunodeficiency virus vaccination, infection, or vaccination and infection in cats. *J Vet Intern Med* 2008; 22:330-334.
22. Meeks C, Levy JK, **Crawford PC**, Farina LL, Origgi F, Alleman R, Seddon OM, Salcedo A, Hirsch BJ, Hirsch SG. Chronic disseminated *Mycobacterium xenopi* infection in a cat with idiopathic CD4+ T lymphocytopenia. *J Vet Intern Med* 2008; 22:1043-1047.
23. Levy JK, **Crawford PC**, Lappin MR, Dubovi EJ, Levy MG, Alleman R, Tucker SJ, Clifford EL. Infectious diseases of dogs and cats on Isabela Island, Galapagos. *J Vet Intern Med* 2008; 22:60-65.
24. Levy JK, **Crawford PC**, Appel LD, Clifford EL. Comparison of intratesticular injection of zinc gluconate versus surgical castration to sterilize male dogs. *Am J Vet Res* 2008; 69:140-143.

25. Rosenberger JA, Pablo NV, **Crawford PC**. Prevalence of and intrinsic risk factors for appendicular osteosarcoma in dogs: 179 cases (1996-2005). *J Am Vet Med Assoc* 2007; 231:1076-1080.
26. Novak JM, **Crawford PC**, Kolenda-Roberts HM, Johnson CM, Mergia A. Viral gene expression and provirus load of Orf-A defective FIV in lymphoid tissues and lymphocyte subpopulations of neonatal cats during acute and chronic infections. *Virus Res* 2007; 130:110-120.
27. Jacks S, Giguère S, **Crawford PC**, Castleman WL. Experimental infection of neonatal foals with *Rhodococcus equi* triggers adult-like gamma interferon induction. *Clin Vaccine Immunol* 2007; 14:669-677.
28. **Crawford PC**, Levy JK. New challenges for the diagnosis of feline immunodeficiency virus infection. *Vet Clin North Am Small Anim Pract* 2007;37:335-50
29. Patterson EV, Reese MJ, Tucker SJ, Dubovi EJ, **Crawford PC**, Levy JK. Effect of vaccination on parvovirus antigen testing in kittens. *J Am Vet Med Assoc* 2007; 230:359-363.
30. Fischer SM, Quest CM, Dubovi EJ, Davis RD, Tucker SJ, Friary JA, **Crawford PC**, Ricke TA, Levy JK. Response of feral cats to vaccination at the time of neutering. *J Am Vet Med Assoc* 2007; 230:52-58.
31. Coffey LL, **Crawford C**, Dee J, Miller R, Freier J, Weaver SC. Serologic evidence of widespread Everglades virus activity in dogs, Florida. *Emerg Infect Dis* 2006; 12:873-879.
32. Milner RJ, Salute M, **Crawford C**, Abbot JR, Farese J. The immune response to disialoganglioside GD3 vaccination in normal dogs: a melanoma surface antigen vaccine. *Vet Immunol Immunopathol* 2006; 114:273-284.
33. Digangi BA, **Crawford PC**, Levy JK. Outcome of cats adopted from a biomedical research program. *J Appl Anim Welf Sci* 2006; 9:143-163.
34. Hackett TB, Jensen WA, Lehman TL, Hohenhaus AE, **Crawford PC**, Giger U, Lappin MR. Prevalence of DNA of *Mycoplasma haemofelis*, '*Candidatus Mycoplasma haemominutum*,' *Anaplasma haemocytophilum*, and species of *Bartonella*, *Neorickettsia*, and *Ehrlichia* in cats used as blood donors in the United States. *J Am Vet Med Assoc* 2006; 229:700-705.
35. Claus MA, Levy JK, MacDonald K, Tucker SJ, **Crawford PC**. Immunoglobulin concentrations in feline colostrum and milk, and the requirement of colostrum for passive transfer of immunity to neonatal kittens. *J Feline Medicine and Surgery* 2006; 8:184-191.
36. **Crawford PC**, Levy JK, Werner LL. Evaluation of surrogate markers for passive transfer of immunity in kittens. *J Am Vet Med Assoc* 2006; 228:1038-1041.
37. Levy JK, Werner LL, **Crawford PC**. Effect of age on clinical biochemistry reference intervals for neonatal cats. *J Am Vet Med Assoc* 2006; 228:1033-1037.
38. Levy JK, Scott HM, Brien JL, **Crawford PC**. Seroprevalence of feline leukemia virus and feline immunodeficiency virus infection in North American cats and risk factors for seropositivity. *J Am Vet Med Assoc* 2006; 228:371-376.
39. **Crawford PC**, Dubovi EJ, Castleman WL, Stephenson I, Gibbs EPJ, Chen L, Smith C, Hill RC, Ferro P, Pompey J, Bright RA, Medina M-J, Influenza Genomics Group, Johnson CM, Olsen CW, Cox NJ, Klimov AI, Katz JM, Donis RO. Transmission of equine influenza virus to dogs. *Science* 2005; 310(5747):482-485.
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41. Walker MC, Mandell TC, **Crawford PC**, Simon GG, Cahill KS, Fernandes PJ, MacLeod JN, Byrne BJ, Levy JK. Expression of feline erythropoietin in cats treated with a recombinant adeno-associated viral vector. *Am J Vet Res* 2005; 66:450-456.
42. Levy JK, Mansour M, **Crawford PC**, Pohajdak B, Brown RG. Survey of zona pellucida antigens for immunocontraception in cats. *Theriogenol* 2005; 62:1334-1341.

43. Wardrop KJ, Reine N, Birkenheuer A, Hale A, Hohenhaus A, **Crawford C**, Lappin M. Canine and feline blood donor screening for infectious disease. *J Vet Intern Med* 2005;19:135-142.
44. MacDonald K, Levy JK, Tucker SJ, **Crawford PC**. Effects of passive transfer of immunity on results of diagnostic tests for antibodies against feline immunodeficiency virus in kittens born to vaccinated queens. *J Am Vet Med Assoc* 2004; 225:1554-1557.
45. Levy JK, **Crawford PC**, Slater MR. Effect of vaccination against feline immunodeficiency virus on results of serological testing in cats. *J Am Vet Med Assoc* 2004; 225:1558-1561.
46. Levy JK, **Crawford PC**. Humane strategies for controlling feral cat populations. *J Am Vet Med Assoc* 2004;225:1354-1360.
47. Levy JK, Miller LA, **Crawford PC**, Ritchey JW, Ross MK, Fagerstone KA. GnRH immunocontraception of male cats. *Theriogenol* 2004;62:1116-1130.
48. Brdecka DJ, Adin CA, Boudreaux MK, **Crawford PC**, Randall SR. Successful ovariectomy in a dog with Glanzmann's thrombasthenia. *J Am Vet Med Assoc* 2004; 224:1796-1798.
49. Milner RJ, Horton JH, **Crawford PC**, O'Kelley J, Nguyen A. Suppurative rhinitis associated with Haemophilus species infection in a cat. *J South African Vet Assoc* 2004; 75:103-107.
50. **Crawford PC**, Hanel RM, Levy JK. Evaluation of treatment of colostrum-deprived kittens with equine IgG. *Am J Vet Res* 2003; 64:969-975.
51. Hanel RM, **Crawford PC**, Hernandez J, Benson NA, Levy JK. Neutrophil function and plasma opsonic capacity in colostrum-fed and colostrum-deprived neonatal kittens. *Am J Vet Res* 2003; 64:538-543.
52. Ramaiah, SK, Harvey, JW, Giguere, S, Franklin, RP, **Crawford, PC**. Intravascular hemolysis associated with liver disease in a horse with marked neutrophil hypersegmentation. *J Vet Intern Med* 2003; 17:360-363.
53. Scott KC, Levy JK, **Crawford PC**. Characteristics of free-roaming cats presented for sterilization. *J Am Vet Med Assoc* 2002; 221:1136-1138.
54. Lee IT, Levy JK, Gorman SP, **Crawford PC**, Slater MR. Prevalence of feline leukemia virus infection and serum antibodies against feline immunodeficiency virus in unowned free-roaming cats. *J Am Vet Med Assoc* 2002; 220:620-622.
55. **Crawford PC**, Papadi GP, Levy JK, Benson NA, Mergia A, Johnson CM. Tissue dynamics of CD8 lymphocytes that suppress virus replication in cats infected neonatally with feline immunodeficiency virus. *J Inf Diseases* 2001; 184:671-81.
56. Levy JK, **Crawford PC**, Collante WC, Papich MG. Use of adult cat serum to correct failure of passive transfer in kittens. *J Am Vet Med Assoc* 2001; 219:1401-1405.
57. Norway RM, **Crawford PC**, Johnson CM, Mergia A. Thymic lesions in cats infected with a pathogenic molecular clone or an ORF-A/2 deficient molecular clone of Feline Immunodeficiency Virus. *J Virol* 2001; 75:5833-5841.
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59. Orandle MS, **Crawford PC**, Levy JK, Udoji R, Papadi GP, Mergia A, Johnson CM. CD8+ thymic lymphocytes express reduced levels of CD8 beta and increased interferon-gamma in cats perinatally infected with the JSY3 molecular clone of feline immunodeficiency virus. *AIDS Res Hum Retroviruses* 2000; 16:1559-1571.
60. **Crawford PC**, Clark WB. *Actinomyces viscosus* colonization of mouse teeth. *J Dent Res* 1986; 65:105-108.
61. **Crawford PC**, Clark WB. Fimbria-specific antibodies in serum and saliva of mice immunized with *Actinomyces viscosus* T14V fimbriae. *Infect Immun* 1986; 54:507-515.
62. **Crawford PC**, Clark WB. Modulation of *Actinomyces viscosus* colonization of mouse teeth in vivo by immunization with fimbrial adhesins. *Infect Immun* 1986; 54:516-521.

PUBLISHED ABSTRACTS

1. **Crawford PC**, Levy JK, Tucker S. Does a DIVA Test Exist for Differentiating FIV Infection from FIV Vaccination? *Proc 2016 ACVIM Forum*, Denver, CO, June 8-11, 2016. Published in *J Vet Intern Med* 2016;30:1475.
2. Cooke K, Frenzer P, Levy JK, Tucker S, **Crawford PC**, Kirk S. Rapid diagnosis of *Babesia gibsoni* using point-of-care insulated isothermic polymerase chain reaction assay. *Proc 2016 ACVIM Forum*, Denver, CO, June 8-11, 2016. Published in *J Vet Intern Med* 2016;30:1473.
3. Cannon SH, Kirk SK, Levy JK, **Crawford PC**, Leutenegger CM. Infectious diseases in dogs rescued during dog fighting. *Proc 2014 ACVIM Forum*, Nashville, TN, June 4-7, 2014. Published in *J Vet Intern Med* 2014;28:1061-1062.
4. **Crawford PC**, Sadler A. Saving Lives through Integrated Medical and Behavioral Programs. *7th Annual Maddie's Shelter Medicine Conference*. Orlando FL, May 18-20, 2014
5. **Crawford PC**. Secnidazole Treatment for Giardiasis. *7th Annual Maddie's Shelter Medicine Conference*. Orlando FL, May 18-20, 2014
6. **Crawford PC**. Canine Influenza: Shelter Epidemics and Control Strategies. *2013 Midwest Veterinary Conference*, Columbus, OH; February 21-24, 2013.
7. **Crawford PC**. Management of Disease Outbreaks in Shelters. *2013 Midwest Veterinary Conference*, Columbus, OH; February 21-24, 2013.
8. **Crawford PC**. *Streptococcus zooepidemicus*: Emerging Pathogen for Dogs and Cats in Shelters. *2013 Midwest Veterinary Conference*, Columbus, OH; February 21-24, 2013.
9. **Crawford PC**, Anderson TC, Lord CC. Simulation of H3N8 Canine Influenza Virus Transmission in Dog Populations Using Mathematical Modeling and Effect of Different Control Strategies on Transmission Outcomes. *2nd ISIRV International Symposium on Neglected Influenza Viruses*, Dublin Ireland; March 7-8, 2013.
10. Salomon SA, Anderson TC, **Crawford PC**. Validation of a commercial blocking ELISA for detection of influenza A nucleoprotein antibodies in canine sera. *2nd ISIRV International Symposium on Neglected Influenza Viruses*, Dublin Ireland; March 7-8, 2013.
11. Butler BA, **Crawford PC**. Accuracy of a point-of-care immunoassay to determine protective antibody titers for canine parvovirus and canine distemper virus. *J Vet Intern Med* 2013; 27(3):604-756 (ID-27).
12. Fabian NJ, **Crawford PC**. Induction of protective antibody titers in shelter dogs after administration of a vaccine containing recombinant canine distemper virus and modified-live canine parvovirus. *J Vet Intern Med* 2013; 27(3):604-756 (ID-22).
13. Levy JK, Hendricks CG, Tucker SJ, Olmstead SM, **Crawford PC**, Dubovi EJ, Hanlon CA. Tail vaccination in cats: balancing disease protection and cancer treatment. *J Vet Intern Med* 2013; 27(3):604-756.
14. Polak KC, Levy JK, **Crawford PC**. Prevalence of infection diseases in large-scale cat hoarding responses. *J Vet Intern Med* 2013; 27(3):604-756.
15. Levy JK, Hendricks CG, Tucker SJ, Olmstead SM, **Crawford PC**, Dubovi EJ, Hanlon CA. Tail vaccination in cats: balancing disease protection and cancer treatment. *Referral Veterinarian Appreciation Day*, University of Florida College of Veterinary Medicine, Gainesville, FL; June 22, 2013.
16. **Crawford PC**. Beyond Kennel Cough: What are the Concerns and Calls for Action? *6th Annual Maddie's Shelter Medicine Conference/Annual No More Homeless Pets National Conference*, Jacksonville, FL; October 10-13, 2013.
17. **Crawford PC**. Canine Circovirus. *6th Annual Maddie's Shelter Medicine Conference/Annual No More Homeless Pets National Conference*, Jacksonville, FL; October 10-13, 2013.

18. Anderson TC, **Crawford PC**, Gibbs P, Pohedra JJ, Lord CC. Mathematical modeling of H3N8 canine influenza virus transmission in shelter facilities. *International Conference on Emerging Infectious Diseases*, Atlanta Georgia, March 11-14, 2012.
19. Salomon SA, Anderson TC, **Crawford PC**. Evaluation of a commercial blocking ELISA for detection of influenza A nucleoprotein antibodies in canine sera. *J Vet Intern Med* 2011; 25:632-767. Abstract ID-6.
20. **Crawford PC**, Levy JK, Leutenegger C. Use of antibody titers and quantitative PCR as risk assessment tools for management of an outbreak of canine distemper and parvovirus. *J Vet Intern Med* 2011; 25:632-767. Abstract ID-11.
21. Anderson TC, **Crawford PC**, Dubovi EJ, Gibbs EP, Hernandez JA. Prevalence of and exposure factors for H3N8 canine influenza virus seropositivity in US dogs with influenza-like illness. *Conference of Research Workers in Animal Diseases*. Chicago, IL. December 4-6, 2011.
22. Anderson TC, Salomon SA, **Crawford PC**. Evaluation of a commercial blocking ELISA for detection of influenza A nucleoprotein antibodies in canine sera. *Conference of Research Workers in Animal Diseases*. Chicago, IL. December 4-6, 2011.
23. **Crawford PC**. Control of community cats (Parts I and II). *Western States Veterinary Conference*, Las Vegas, NV, February 19, 2010.
24. **Crawford PC**. Canine and feline parvovirus in animal shelters. *Western States Veterinary Conference*, Las Vegas, NV, February 19, 2010.
25. **Crawford PC**. Respiratory infections in dogs in shelters. *Western States Veterinary Conference*, Las Vegas, NV, February 19, 2010.
26. **Crawford PC**, King L. Canine influenza: epidemiology, clinical disease, diagnosis, treatment, and prevention. *Western States Veterinary Conference*, Las Vegas, NV, February 16, 2010.
27. **Crawford PC**. Surveillance for influenza A infections in dogs. *Proc International Symposium on Neglected Influenza Viruses*, Amelia Island FL, February 4-5, 2010.
28. **Crawford PC**. Issues and strategies for controlling canine influenza. *Proc International Symposium on Neglected Influenza Viruses*, Amelia Island FL, February 4-5, 2010.
29. **Crawford PC**, King L. Canine influenza: epidemiology, clinical disease, diagnosis, treatment, and prevention. *North American Veterinary Conference*, Orlando, FL, January 19, 2010.
30. Lechner ES, **Crawford PC**, Edinboro CH, Dubovi EJ, Caligiuri R, Levy JK. Prevalence of protective antibody titers for distemper virus and parvovirus in dogs entering a Florida shelter. *J Vet Intern Med* 2009; 23:717.
31. **Crawford PC**, King L. Canine Influenza. *Proc Southern European Vet Conf*, Barcelona Spain, October 2009.
32. **Crawford PC**. Canine Influenza. *Proc Central Veterinary Conference*, Kansas City MO, 8/30/09.
33. Anderson TC, Grimes L, Pompey J, Osborne C, Bromfield C, Dodds WJ, Katz JM, Courtney CH, **Crawford PC**. Serological evidence for influenza A H3N8 virus circulation in canines from 1999 to 2004. *The International Conference of Emerging Infectious Diseases*, Atlanta, GA, March 16-19, 2008.
34. **Crawford C**. Canine influenza: epidemiology, clinical disease, diagnosis. *2008 Michigan Veterinary Conference*, East Lansing, MI, January 25, 2008.
35. **Crawford C**. Avian influenza H5N1 infection of dogs and cats. *2008 Michigan Veterinary Conference*, East Lansing, MI, January 25, 2008.
36. **Crawford C**. FeLV and FIV: epidemiology and update on testing paradigms. *2008 Michigan Veterinary Conference*, East Lansing, MI, January 25, 2008.
37. **Crawford C**. Epidemiology of FeLV and FIV in feral cats. *2008 Michigan Veterinary Conference*, East Lansing, MI, January 25, 2008.
38. **Crawford C**. Feral cats: controversies and control. *2008 Michigan Veterinary Conference*, East Lansing, MI, January 25, 2008.

39. Long MT, Gibbs EPF, **Crawford PC**, Castleman WL, Donis RO, Chambers TM, Beachboard S, Dixon M, Anderson TC. Comparison of virus replication and clinical disease in horses inoculated with equine or canine influenza viruses. *Immunobiology of Influenza Virus Infection: Approaches for an Emerging Zoonotic Disease*, Athens, GA, July 29-31, 2007.
40. Anderson TC, Grimes L, Pompey J, Osborne C, Dodds WJ, Katz JM, Courtney CH, **Crawford PC**. Serological evidence for canine influenza virus circulation in dogs from 1999 to 2004. *Immunobiology of Influenza Virus Infection: Approaches for an Emerging Zoonotic Disease*, Athens, GA, July 29-31, 2007.
41. **Crawford PC**, Anderson T, Dubovi E, Zyllich N, Katz J, Pompey J, Donis RO, Gibbs P. Syndromic serosurveillance for canine influenza virus infection of dogs in the U.S. *Immunobiology of Influenza Virus Infection: Approaches for an Emerging Zoonotic Disease*, Athens, GA, July 29-31, 2007.
42. **Crawford PC**. Canine influenza. *2007 Florida Department of Health Zoonosis Summit*, Orlando, FL, July 24-25, 2007.
43. Anderson TC, Grimes L, Pompey J, Osborne C, Dodds WJ, Katz JM, Courtney CH, **Crawford PC**. Serological evidence for canine influenza virus circulation in racing greyhounds from 1999 to 2003. *J Vet Intern Med.* 2007; 21:577.
44. Haynes K, Hill RC, Scott KC, Tucker SJ, Levy JK, **Crawford PC**. A comparison of serum vitamin A and vitamin E concentrations in shelter, feral, and pet cats. *Proc 2007 ACVIM Forum*, Seattle, WA, June 6 - 9, 2007.
45. **Crawford PC**, Anderson TC, Castleman WL, Long MT, Donis RO, Chambers TE, Gibbs EPJ. The emergence of canine influenza in the USA: developments since discovery in 2004. *The Association of Veterinary Teachers and Research Workers (British Veterinary Association)*, April 2-5, 2007.
46. **Crawford PC**. Update on canine influenza: diagnosis, clinical disease, and epidemiology. *North American Veterinary Conference*, Orlando, FL, January 13, 2007.
47. **Crawford PC**. Update on canine influenza. *23rd Annual International Sports Medicine Symposium*, Orlando, FL, January 13, 2007.
48. Payungporn S, **Crawford PC**, Kouo TS, Chen L, Castleman WL, Dubovi EJ, Kelling CL, Poovorawan Y, Donis RO. Detection, isolation and characterization of influenza A subtype H3N8 viruses from dogs with respiratory disease in a shelter and veterinary clinic in Florida. *Respiratory Viruses of Animals Causing Disease in Humans*, Republic of Singapore, December 10-15, 2006.
49. Anderson TC, Jatz JM, Gibbs EPJ, **Crawford PC**. Development of a hemagglutination inhibition assay for diagnosis of canine influenza virus infection. *110th Annual Meeting USAHA and 49th Annual Conference of the American Association of Veterinary Laboratory Diagnosticians*, Minneapolis, MN, October 12-18, 2006.
50. Anderson TC, Jatz JM, Gibbs EPJ, **Crawford PC**. Canine influenza virus agglutination of avian and mammalian red blood cells. *110th Annual Meeting USAHA and 49th Annual Conference of the American Association of Veterinary Laboratory Diagnosticians*, Minneapolis, MN, October 12-18, 2006.
51. **Crawford PC**, Bienzle D, Richards JR, Levy JK. Diagnostic assays to differentiate FIV-infected from FIV-vaccinated cats. *8th International Feline Retrovirus Research Symposium*, Washington, DC, October 8-11, 2006.
52. **Crawford PC**, Dubovi EJ, Zyllich NC, Anderson TC, Donis RO, Gibbs EPJ. Syndromic surveillance for canine influenza virus infection in pet dogs in the U.S. *4th International Veterinary Vaccines and Diagnostics Conference*, Oslo, Norway, June 25-29, 2006.
53. **Crawford PC**, Katz JM, Anderson TC, Pompey J, Donis RO, Scott KC, Gibbs P. Crossreactivity of antibodies to canine and equine influenza H3N8 virus in naturally infected and vaccinated dogs.

- 4th International Veterinary Vaccines and Diagnostics Conference, Oslo, Norway, June 25-29, 2006.*
54. Chen L, Kouo TS, **Crawford PC**, Dubovi EJ, Donis RO. Evolution of canine influenza virus (H3N8) after transmission from horses: implications for public health. *Thirteenth International Conference on Negative Strand Viruses, Salamanca, Spain, June 17-22, 2006.*
 55. **Crawford PC**, Katz JM, Anderson TC, Pompey J, Donis RO, Scott KC, Gibbs P. Crossreactivity of antibodies to canine and equine influenza H3N8 virus in naturally infected and vaccinated dogs. *Proc American College of Vet Internal Med, 24th Ann Scientific Forum, Louisville, KY, May 28-June 3, 2006.*
 56. **Crawford PC**, Gibbs P, Castleman W, Hill R, Dubovi E, Donis R, Katz J. Canine influenza virus: an emerging respiratory pathogen. *Proc American College of Vet Internal Med, 24th Ann Scientific Forum, Louisville, KY, May 28-June 3, 2006.*
 57. Castleman WL, **Crawford PC**, Gibbs EPJ, Dubovi EJ, Donis RO, Powe JR. Newly emerged respiratory disease in dogs caused by canine H3N8 influenza virus. *American Thoracic Society 2006 International Conference, San Diego, CA, May 19-24, 2006.*
 58. **Crawford PC**, Gibbs EPJ, Anderson TC, Castleman WL, Powe J, Hill RC, Dubovi EJ, Zyllich N, Kouo T, Payungporn S, Chen L, Pompey J, Katz JM, Donis RO. Emergence of influenza virus in pet dogs. *International Conference on Emerging Infectious Diseases, Atlanta, GA, March 19-22, 2006.*
 59. **Crawford PC**, Rosenberger J, Pablo N. Risk for osteosarcoma in greyhounds. *Veterinary Cancer Society Mid-Year Symposium on Canine Osteosarcoma, Sedona, AZ, March 5-8, 2006.*
 60. Lara A, Couto CG, **Crawford PC**, Hamilton H. Clinicopathologic features of appendicular osteosarcoma in retired racing greyhounds. *Veterinary Cancer Society Mid-Year Symposium on Canine Osteosarcoma, Sedona, AZ, March 5-8, 2006.*
 61. **Crawford PC**. Canine influenza. *Western Veterinary Conference, 78th Annual Conference, Las Vegas, NV, February 19-23, 2006.*
 62. **Crawford PC**. Canine influenza. *North American Veterinary Conference, Orlando, FL, January 7-11, 2006.*
 63. **Crawford PC**. Influenza virus infection in racing greyhounds. *22nd Annual International Sports Medicine Symposium, Orlando, FL, January 8, 2006.*
 64. Castleman WL, **Crawford PC**, Powe JR, Donis RO. Pathology update on canine influenza. *56th Annual Meeting of the American College of Veterinary Pathologists, Boston, MA, Dec 5, 2005.*
 65. **Crawford PC**, Dubovi EJ, Castleman WL, Stephenson I, Chen L, Smith C, Hill RC, Ferro P, Olsen C, Cox NJ, Klimov AL, Katz JM, Donis RO, Gibbs EPJ. Equine influenza virus causing an epidemic of respiratory disease in racing greyhounds. *International Union of Microbiological Societies, San Francisco, CA, July 23-28, 2005.*
 66. **Crawford C**, Gibbs P, Castleman W, Hill R, Dubovi E, Donis R, Stephenson I, Smith C, Katz J. Influenza virus infection in racing greyhounds. *Proc American College of Vet Internal Med, 23rd Ann Scientific Forum, Baltimore, MD, June 1-4, 2005.*
 67. **Crawford C**, Hoch D, Long M, Levy J, Glaser A. Prevalence of West Nile virus in feral cats. *Proc American College of Vet Internal Med, 23rd Ann Scientific Forum, Baltimore, MD, June 1-4, 2005.*
 68. **Crawford C**, Rosenberger J, Pablo N. Risk of osteosarcoma in retired racing greyhounds. *Proc American College of Vet Internal Med, 23rd Ann Scientific Forum, Baltimore, MD, June 1-4, 2005.*
 69. Levy JK, **Crawford PC**. Prevalence of FeLV and FIV in North America. *Proc American College of Vet Internal Med, 23rd Ann Scientific Forum, Baltimore, MD, June 1-4, 2005.*
 70. Levy J, **Crawford C**, Tucker S, Alleman R, Lappin M, Dubovi E, Levy M. Infectious diseases of dogs and cats on Isla Isabela, Galapagos. *Proc American College of Vet Internal Med, 23rd Ann Scientific Forum, Baltimore, MD, June 1-4, 2005.*

71. Dubovi E, **Crawford C**, Gibbs P, Castleman W, Hill R, Stephenson I, Smith C, Medina M, Balish H, Donis R. Influenza virus infection in racing greyhounds. *Proc 24th Annual Meeting of the American Society for Virology*, Hershey, Pennsylvania, June 1-7, 2005.
72. Kouo T, Chen L, **Crawford C**, Dubovi E, Katz J, Klimov A, Donis R. High growth reassortants of canine influenza virus for diagnostic, vaccine and research applications. *Proc 24th Annual Meeting of the American Society for Virology*, Hershey, Pennsylvania, June 1-7, 2005.
73. Castleman WL, **Crawford PC**, Dubovi EJ, Gibbs EPJ, Powe J, Donis RO. Pulmonary lesions in dogs naturally and experimentally infected with H3N8 equine influenza virus. *FASEB*, San Diego, CA, April 2-6, 2005.
74. Castleman, WL, **Crawford, PC**, Dubovi, EJ, Gibbs, EPJ, Donis, RO. Acute respiratory disease in greyhound dogs infected with H3N8 equine influenza virus. *Proc. 55th Annual Meeting of the American College of Veterinary Pathologists*, Orlando, FL, November, 2004.
75. Dubovi, EJ, **Crawford, PC**, Donis, RO, Castleman, WL, Stephenson, I, Gibbs, EPJ. Isolation of equine influenza virus from racing greyhounds with fatal hemorrhagic pneumonia. *Proc. 47th Annual Meeting of the American Association of Veterinary Laboratory Diagnosticians*, Greensboro, NC, October, 2004.
76. **Crawford PC**, Slater MR, Leutenegger CM, Levy JK. PCR for diagnosis of FIV infection. *J Vet Intern Med* 2004; 18:387.
77. Levy JK, **Crawford PC**, Slater MR. Antibody responses to FIV vaccination. *J Vet Intern Med* 2004; 18:386.
78. **Crawford PC**, Slater MR, Levy, JK. PCR for diagnosis of FIV infection. *Proc. 7th International Feline Retrovirus Research Symposium*, Pisa, Italy, September 11-15, 2004.
79. Levy JK, **Crawford PC**, Slater MR. Antibody responses to FIV vaccination. *Proc. 7th International Feline Retrovirus Research Symposium*, Pisa, Italy, September 11-15, 2004.
80. Levy JK, **Crawford PC**, Brien JL. Prevalence of FeLV and FIV in the United States. *Proc 7th Int Fel Retrovirus Res Symposium*, Pisa, Italy, September 11-15, 2004.
81. Ross MK, Levy JK, Miller LA, **Crawford PC**, Ritchey JW, Fagerstone KA. GnRH immunocontraception of male cats. *Proc 2nd Int Symp Nonsurgical Contraceptive Methods for Pet Population Control* 2004;113, Breckenridge, CO, June 24-27, 2004.
82. Ross MK, Levy JK, Mansour M, **Crawford PC**, Brown RG, Pohajdak. Survey of zona pellucida antigens for immunocontraception of cats. *Proc 2nd Int Symp Nonsurgical Contraceptive Methods for Pet Population Control* 2004;190, Breckenridge, CO, June 24-27, 2004.
83. **Crawford PC**, Johnson CM, Mergia A, Levy JK. Relationship of cytokine alterations to changes in cell populations and viral load in the thymus of neonatal cats infected with feline immunodeficiency virus. *6th International Feline Retrovirus Research Symposium*, Amelia Island, FL, 2002
84. **Crawford PC**, Levy JK, Benson NA. Development of a flow cytometric assay for simultaneous measurement of neutrophil phagocytosis and oxidative burst response in feline whole blood. *Proc American College of Veterinary Internal Medicine, 21st Ann Scientific Forum*, Dallas, TX, 2002.
85. **Crawford PC**, Levy JK, Hanel RM. Comparison of intrinsic neutrophil function and plasma opsonic capacity of kittens to adult cats. *Proc American College of Veterinary Internal Medicine, 21st Ann Scientific Forum*, Dallas, TX, 2002.
86. **Crawford PC**, Levy JK, Bicknell JM, Layton CR, Hannaka TA. FeLV, FIV, and FIP: Epidemiology and clinical disease syndromes. *Proc American College of Veterinary Internal Medicine, 20th Ann Scientific Forum*, Denver, CO, 2001.
87. **Crawford PC**, Levy JK, Papadi GP, Johnson CM. CD8+ T cell phenotypic and functional alterations in pediatric FIV infection. *FASEB*, Orlando, FL, 2001.

88. **Crawford PC**, Levy JK, Mergia A, Papadi GP, Johnson CM. Development of antiviral CD8+ lymphocytes after neonatal FIV infection. *Proc 53rd Ann Meeting Animal Disease Research Workers in Southern States*. Gainesville, FL, 2001.
89. Johnson CM, Bortnick SJ, **Crawford PC**, Papadi GP. Unique susceptibility of the fetal thymus to feline immunodeficiency virus infection: an animal model for HIV infection *in utero*. *Proc. 20th Ann Meeting Am. Society for Reproductive Immunol.* Jacksonville, FL, 2000.
90. Levy JK , **Crawford PC**. Failure of passive transfer in neonatal kittens: correction by administration of adult cat serum. *Proc. 18th Am Coll Vet Intern Med Forum*, Seattle, WA, 2000.
91. **Crawford PC**, Johnson CM, Levy JK. Emergence of antiviral activity in neonatal FIV infection. *Proc 80th Annual Meeting of the Conference of Animal Disease Research Workers*, Chicago, IL, 1999.
92. Levy JK, **Crawford PC**, Johnson CM. Cytokine regulation in pediatric feline immunodeficiency virus infection. *Proc 80th Ann Meeting Conf Res Workers in Animal Disease*, Chicago, IL, 1999.

BOOK CHAPTERS

1. Levy JK, **Crawford PC**. Feline leukemia virus. In, Ettinger SJ, Feldman EC, eds. Textbook of Veterinary Internal Medicine, 7th ed. Philadelphia:WB Saunders Co., 2010, 935-939.
2. Levy JK, **Crawford PC**. Feline immunodeficiency virus. In, Ettinger SJ, Feldman EC, eds. Textbook of Veterinary Internal Medicine, 7th ed. Philadelphia:WB Saunders Co., 2010, 929-934.
3. **Crawford PC**, Sellon RK. Canine Viral Diseases. In, Ettinger SJ, Feldman EC, eds. Textbook of Veterinary Internal Medicine, 7th ed. Philadelphia:WB Saunders Co., 2010, 958-971.
4. **Crawford PC**. Progress on Diagnosis of Retroviral Infections. In: August JR, ed. Consultations in Feline Internal Medicine, Volume 6, Philadelphia:WB Saunders Co., 2010, 53-61.
5. **Crawford PC**, Spindel ME. Canine influenza. In: Miller L and Hurley KF (eds). Management of Infectious Diseases in Dogs and Cats in Animal Shelters. Blackwell Publishing, Ames, IA. 2009, 173-180.
6. **Crawford PC**, Levy JK. New challenges for the diagnosis of feline immunodeficiency virus infection. In: Allison RW, Meinkoth JH, eds. The Veterinary Clinics of North America, Philadelphia:Elsevier, 2007, 335-350.
7. Levy JK, **Crawford PC**. Feline leukemia virus. In: Ettinger SJ, Feldman EC, eds. Textbook of Veterinary Internal Medicine, 6th ed. Philadelphia:WB Saunders Co., 2005, 653-659.

PATENTS

1. Crawford PC et al. Materials and Methods for Respiratory Disease Control in Canines. United States Patent No. US 7,959,929 B2. June 14, 2011.
2. Crawford PC et al. Materials and Methods for Respiratory Disease Control in Canines. PCT International Patent Application Docket No. UF-445XCI, Filed April 21, 2006.
3. Licensing of Canine Influenza A H3N8 virus to Merck and Co. for vaccine production.

RESEARCH FUNDING

1. **Crawford PC** (PI), Levy JK. Maddie's Shelter Medicine Program at the University of Florida. Maddie's Fund, 7/1/15-6/30/18. \$4,192,657.
Role: principle investigator
2. **Crawford PC** (PI), Levy JK. Maddie's Shelter Medicine Program at the University of Florida. Maddie's Fund, 7/1/14-6/30/15. \$1,340,302.
Role: principle investigator

3. Levy JK, **Crawford PC (Co-I)**. Maddie's Shelter Medicine Program at the University of Florida. Maddie's Fund, 7/1/11-6/30/14. \$3,358,679.
Role: co-investigator
4. **Crawford PC**, Gibbs P, Hernandez J, Lord C. Understanding the dynamics of canine influenza virus transmission in dog populations and intervention strategies for reducing transmission. AKC Canine Health Foundation. 9/2008-12/2011. \$105,149.
Role: principal investigator.
5. **Crawford PC**, Levy JK, Tompkins SM. Surveillance of feral cats for influenza A infection. Contractual subproject for the Emory University-University of Georgia Center of Excellence for Influenza Research and Surveillance (CEIRS) funded by the National Institutes of Health. 11/08-11/10. \$82,500.
Role: co-investigator
6. **Crawford PC**. Development of a DIVA test strategy for canine influenza. Morris Animal Foundation. 9/2007-2/2010. \$50,670.
Role: principal investigator.
7. **Crawford PC**. Development of a DIVA test strategy for canine influenza. Morris Animal Foundation Fellowship Training Grant for Dr. Tara Anderson. 9/2007-2/2010. \$75,600.
Role: mentor
8. **Crawford PC**. Influenza virus infection in dogs in shelters. Morris Animal Foundation. 9/06-9/09. \$127,649.
Role: principal investigator.
9. **Crawford PC**, Isaza N. Alachua County distemper surveillance. Maddie's Fund. 12/07-12/08. \$30,000.
Role: principal investigator
10. **Crawford PC**, Gibbs P, Hill R. Incidence of canine influenza virus infection in racing greyhounds and development of a new diagnostic strategy. Department of Business and Professional Regulation, Division of Pari-Mutuel Wagering, State of Florida. 11/06-11/07. \$45,000.
Role: principal investigator.
11. **Crawford PC**. Association of canine respiratory coronavirus with respiratory disease in dogs in the U.S. 2006 CVM Fall Consolidated Faculty Research Development Award Grant Competition. 10/06-10/07. \$2,750.
Role: principle investigator
12. **Crawford PC**, Gibbs P, Hill R, Castleman W. Identification, characterization, and prevention of canine acute respiratory syndrome (CARS) in racing greyhounds in Florida. 7/03-9/06. Department of Business and Professional Regulation, Division of Pari-Mutuel Wagering, State of Florida. \$300,000.
Role: principal investigator.
13. **Crawford PC**, Long MT. Diagnostic testing for survey of West Nile virus in domestic canids and felids in Alachua County. 3/31/03- 9/30/05. Department of Health, Alachua County Health Department, State of Florida. \$36,000.
Role: principal investigator.
14. **Crawford PC**, Gibbs P. Evaluation of the safety and efficacy in vitro of an intranasal and parenteral vaccine for equine influenza virus in racing greyhounds. Intervet, Inc. Millsboro, DE. 5/05-12/05. \$54,230.
Role: principal investigator.
15. **Crawford PC**, Castleman W. Influenza virus infection in cats. Harold H. Morris Trust for Feline Research. 2/05-2/07. \$15,190.
Role: principal investigator.

16. Gibbs EPJ, **Crawford PC**, Long MT, Castleman WC, Chambers T. Pathogenicity for horses of an equine influenza virus (H3N8) isolated from racing greyhounds in Florida. Department of Business and Professional Regulation, Division of Pari-Mutuel Wagering, State of Florida. 8/04–8/06. \$75,000.
Role: co-principal investigator.
17. Specht AS, **Crawford PC**, Hale AS, Wardrop KJ, Jutkowitz LA, Beal M. Potential for alloimmunization to red blood cell surface antigen following plasma transfusion in canines. CVM Consolidated Faculty Research Development Award. 5/06-5/07. \$7,500.
Role: Co-principal investigator
18. Richards JR, **Crawford PC**, Bienzle D. Validation of virus culture and PCR for FIV diagnosis. 2/04-12/05. Winn Feline Foundation. \$25,020.
Role: principal investigator.
19. Giguere S, **Crawford PC**, Jacks S. Immunity to *Rhodococcus equi* infections in susceptible foals and resistant adult horses. Department of Business and Professional Regulation, Division of Pari-Mutuel Wagering, State of Florida. 8/04–8/05. \$49,800.
Role: co-investigator.
20. Farese JP, Milner RJ, **Crawford PC**, Royals S. Investigations into the mechanisms of deracoxib and pamidronate-induced cytotoxicity in canine osteosarcoma cells in vitro. 10/03 - 10/05. Novartis. \$33,720.
Role: co-investigator.
21. **Crawford PC**. The effect of dietary fat on function of racing greyhound neutrophils challenged with respiratory pathogens. CVM Consolidated Research Development Award. 5/04-5/05. \$7500.
Role: principal investigator
22. **Crawford PC**, Long MT. Prevalence of West Nile virus in cats. 3/03-3/04. CVM Consolidated Research Development Award. \$7500.
Role: principal investigator
23. Slater MR, Levy JK, **Crawford PC**, Leutenegger CM. FIV vaccination: Effects on FIV diagnostic testing. 2/03-2/04. Winn Feline Foundation. \$41,788.
Role: co-investigator
24. Twomey L, **Crawford C**, Hill R, Scott K. Effect of racing on neutrophil function in greyhounds. 11/02-11/03. CVM Resident Intramural Competitive Grants Program. \$2000.
Role: principal investigator
25. Giguere S, Jacks S, **Crawford C**. Immunity to *Rhodococcus equi* infections in susceptible foals and resistant adult horses. 9/02-9/03. Florida Department of Pari-Mutuel Wagering Trust Fund. \$52,905.
Role: co-investigator
26. **Crawford, PC**. Development of a diagnostic assay for quantifying neutrophil function in cats. 8/02-8/03. Harold C. and Vera Morris Trust Fund. \$11,462.
Role: principal investigator
27. Giguere S, Jacks S, **Crawford C**. Immunity to *Rhodococcus equi* infections in susceptible foals and resistant adult horses. 3/02-3/03. CVM Consolidated Research Development Award. \$7500.
Role: co-investigator
28. Levy JK, Hanel RM, **Crawford PC**, Hernandez J. Simultaneous flow cytometric analysis of phagocytosis and oxidative burst activity of polymorphonuclear leukocytes in kittens with failure of passive transfer: Restoration of immune function by feline and equine IgG supplementation. 3/01 - 3/02. CVM Consolidated Research Development Award. \$7500.
Role: principal investigator

29. Hanel RM, Levy JK, **Crawford PC**, Hernandez J. Simultaneous flow cytometric analysis of phagocytosis and oxidative burst activity of polymorphonuclear leukocytes in kittens with failure of passive transfer: Restoration of immune function by feline and equine IgG supplementation. 11/00 - 11/01. CVM Resident Intramural Competitive Grants Program. \$2000.
Role: principal investigator
30. Levy JK, **Crawford PC**. Use of adult cat serum to correct failure of passive transfer in kittens. 7/99-7/00. CVM Consolidated Research Development Award. \$6,800.
Role: co-investigator

GRADUATE STUDENT COMMITTEES

1. Jaime Grijalva, PhD, 2018, UF CVM, committee member
2. Jill Bobel, PhD, 2017, Dept. of Animal Sciences, UF IFAS, committee member
3. Jaime Grijalva, MS, 2014, UF CVM, committee member
4. Tara Creel Anderson, PhD/MPH, 2011, UF CVM, major advisor.
5. Clare Ryan, PhD, 2010, UF CVM, committee member
6. Joshua R. Powe, PhD, 2009, UF CVM, committee member
7. JG Vickers, MS, 2008, Dept. of Animal Sciences, UF IFAS, committee member.
8. Janelle Novak, PhD, 2007, UF CVM, committee member.
9. John Friary, MS, 2006, UF CVM, committee member.
10. Felipe Reggeti, PhD, 2005, Ontario Veterinary College, University of Guelph, external examiner.

INVITED LECTURES

1. International Society for Companion Animal Infectious Diseases 4th Biennial Symposium, Bristol, UK; 10/19/16. Canine Influenza Viruses: Old and New. 1 hr. [Keynote Speaker]
2. ACVIM Forum, Denver CO; 6/10/16. H3N2 CIV: What Clinicians Need to Know. 1 hr
3. Small Animal Veterinary Conference, Lima Peru; 9/7/15. Emerging Canine Respiratory Pathogens. 1 hr
4. Small Animal Veterinary Conference, Lima Peru; 9/7/15. Canine Distemper Outbreaks: no longer a death sentence. 1 hr
5. Small Animal Veterinary Conference, Lima Peru; 9/7/15. Evidence-based Parvovirus Treatment. 1 hr
6. Small Animal Veterinary Conference, Lima Peru; 9/7/15. Preventive Care in Animal Shelters. 1 hr
7. Caribbean Animal Welfare Conference, San Jose, Costa Rica; 6/15/15. Canine Distemper Outbreak in the Bahamas 2014: Response and Lessons Learned. 1 hr
8. ACVIM Forum, Indianapolis IN; 6/6/15. H3N2 Canine Influenza Virus: Epidemiology. 1 hr
9. HSUS Animal Care EXPO, New Orleans LA; 3/30/15. The Medical and Behavioral Impact of Play Groups: Balancing Physical and Behavioral Wellness of Shelter Dogs. 2 hr
10. Florida Animal Control Association Conference, Orlando FL; 2/28/15. Beyond Kennel Cough: Emerging Threats for Florida Shelter Dogs. 1.5 hr
11. North American Veterinary Conference, Orlando FL; 1/21/15. Canine Respiratory Disease Outbreaks: Resources to Save More Lives. 1.5 hr.
12. North American Veterinary Conference, Orlando FL; 1/21/15. Canine Distemper: New Challenges and Frontiers. 1.5 hr.
13. Ross University School of Veterinary Medicine, St. Kitts, West Indies; November 5, 2014. *Streptococcus zooepidemicus*: an emerging pathogen for dogs and cats in shelters. 1 hour
14. Ross University School of Veterinary Medicine, St. Kitts, West Indies; November 5, 2014. Research studies on canine distemper and parvo in shelter dogs. 1 hour

15. 7th Annual Maddie's Shelter Medicine Conference, Orlando, FL; May 18, 2014. Saving Lives through Integrated Medical and Behavioral Programs. 1.5 hours
16. Maddie's Institute, national webinar; January 9, 2014. Everything Shelters Need to Know About Canine Distemper. 1.5 hours
17. 6th Annual Maddie's Shelter Medicine Conference/No More Homeless Pets National Conference, Jacksonville, FL; October 12, 2013. Beyond Kennel Cough: What are the Concerns and Calls for Action? 1.5 hours
18. 2nd ISIRV International Symposium on Neglected Influenza Viruses, Dublin, Ireland; March 7, 2013. Simulation of H3N8 Canine Influenza Virus Transmission in Dog Populations Using Mathematical Modeling and Effect of Different Control Strategies on Transmission Outcomes. 1 hour
19. 2013 Midwest Veterinary Conference, Columbus, OH; February 21-24, 2013. Canine Influenza: Shelter Epidemics and Control Strategies. 1 hour
20. 2013 Midwest Veterinary Conference, Columbus, OH; February 21-24, 2013. Streptococcus zooepidemicus: Emerging Pathogen for Dogs and Cats in Shelters. 1 hour
21. 2013 Midwest Veterinary Conference, Columbus, OH; February 21-24, 2013. Management of Disease Outbreaks in Shelters. 1 hour
22. Iowa State University College of Veterinary Medicine Ramsey Lecture Series, Ames, IA, March 28, 2012. H3N8 canine influenza virus epidemiology. 1 hour.
23. Iowa State University College of Veterinary Medicine, Ames, IA, March 29, 2012. Investigation and management strategies for disease outbreaks in animal shelters. 1 hour.
24. North American Veterinary Conference, Orlando, FL, January 14, 2012. Sanctuary sickness: The medical investigation and management of large-scale dog and cat abuse. 1 hour.
25. International Society of Companion Animal Infectious Diseases Forum, Denver, CO, June 17, 2011. Detection and epidemiology of canine influenza A virus infections. 1 hour.
26. American College of Veterinary Internal Medicine, 29th Annual Scientific Forum, Denver, CO, June 16, 2011. Evaluation of a commercial blocking ELISA for detection of Influenza A nucleoprotein antibodies in canine serum. Research Abstract Program.
27. American College of Veterinary Internal Medicine, 29th Annual Scientific Forum, Denver, CO, June 16, 2011. Use of antibody titers and quantitative PCR as risk assessment tools for management of an outbreak of canine distemper and parvovirus. Research Abstract Program.
28. Florida Veterinary Medical Association, 81st Annual Conference, Tampa FL, 4/9/10. Things to know about the H3N8 dog flu. Testing and management of feline retroviral infections. 2 hours.
29. Western Veterinary Conference, 82nd Annual Conference, Las Vegas, NV, February 16, 2010. Canine influenza: epidemiology, clinical disease, diagnosis, treatment, and prevention. Control of community cats (Parts I and II). Canine and feline parvovirus infections in animal shelters. Respiratory infections in dogs in shelters. 5 hours.
30. International Symposium on Neglected Influenza Viruses, Amelia Island FL, February 4-5, 2010. Surveillance for influenza A infections in dogs. Issues and strategies for controlling canine influenza. 2 hours.
31. North American Veterinary Conference, Orlando, FL, January 19, 2010. Canine influenza: epidemiology, clinical disease, diagnosis, treatment, and prevention. 1 hour.
32. Southern European Veterinary Conference, Barcelona Spain, October 3, 2009. Canine influenza. 1 hour.
33. Central Veterinary Conference, Kansas City MO, August 30, 2009. Canine influenza. 1 hour.
34. 145th American Veterinary Medical Association Annual Meeting, New Orleans, LA, July 22, 2008. Influenza virus infections in dogs around the world. 1 hour.

35. 2008 Michigan Veterinary Conference, East Lansing, MI, January 25, 2008. Canine influenza; Avian influenza infection in dogs and cats; FeLV and FIV epidemiology and testing paradigms; FeLV and FIV epidemiology in feral cats; Feral cats – controversies and control. 5 hours.
36. University of Sarajevo, Sarajevo, Bosnia. September 16-21, 2007. Infectious disease and transfusion medicine lectures. 4 hours.
37. Symposium on Immunobiology of Influenza Virus Infection: Approaches for an Emerging Zoonotic Disease, Athens, GA, July 30, 2007. Syndromic serosurveillance for canine influenza virus infection of dogs in the U.S. 1 hour..
38. Florida Department of Health 2007 Zoonosis Summit, Orlando, FL, July 24, 2007. Canine influenza. 1 hour.
39. North American Veterinary Conference, Orlando, FL, January 13, 2007. Update on canine influenza: diagnosis, clinical disease, and epidemiology. 1 hour.
40. 57th National Meeting of the American Association of Laboratory Animal Science, Salt Lake City, UT, October 17, 2006. Canine influenza. 1 hour.
41. American College of Veterinary Internal Medicine, 24th Annual Scientific Forum, Louisville, KY, May 28-June 3, 2006. Canine influenza virus: an emerging respiratory pathogen. 1 hour.
42. Western Veterinary Conference, 78th Annual Conference, Las Vegas, NV, February 19-23, 2006. Influenza virus infection in racing greyhounds; Canine influenza. 2 hours.
43. The Joy Goodwin Lecturer, College of Veterinary Medicine, Auburn University, Auburn, AL, February 17, 2006. Canine influenza: a newly emerging respiratory disease in dogs; Influenza virus infection in racing greyhounds. 2 hours.
44. The Animal Medical Center and the New York City Veterinary Medical Association, Manhattan, NY, February 8, 2006. Influenza virus infection in racing greyhounds; Canine influenza. 2 hours.
45. North American Veterinary Conference, Orlando, FL, January 7-11, 2006. Canine influenza. 1 hour.
46. James H. Yarborough Lecturer, 22nd Annual International Sports Medicine Symposium, Orlando, FL, January 8, 2006. Influenza virus infection in racing greyhounds. 1 hour.
47. OVC Seminar Series, Ontario Veterinary College, University of Guelph, Guelph, Canada, December 12, 2005. Canine influenza. 1 hour.
48. Havemeyer Foundation Workshop on Equine Influenza and Cross Species Transmission, Miami, FL, November 3-6, 2005. Transmission of equine influenza virus from the horse to the dog. 1 hour.
49. Florida Veterinary Medical Association, Annual Conference and Convention, Orlando, FL, September 8-10, 2005. Canine influenza virus is an emerging respiratory pathogen of dogs. 1 hour.
50. 21st Annual International Sports Medicine Symposium, Orlando, FL, January 8-9, 2005. Thyroid function in racing greyhounds. 1 hour.
51. British Small Animal Veterinary Association, Birmingham, England, April 1-3, 2004. Part 1. Selection and screening of blood donors. Part 2. Performing safe blood transfusions. 2 hours.
52. Veterinary Internal Medicine Congress, Santiago, Chile, April 23-26, 2003. Part 1. Blood types, blood typing, and transfusion reactions; Part 2. Blood component therapy; Part 3. Canine and feline blood donor programs. 3 hours.
53. Joint meeting of the Veterinary Hematology and Transfusion Medicine Society and the Infectious Disease Special Interest Group, 21st Annual Scientific Forum of the American College of Veterinary Internal Medicine. Dallas, TX, May 29-31, 2002. Current dilemmas in screening of canine blood donors for infectious diseases. 1 hour.

OTHER CONTINUING EDUCATION PRESENTATIONS FOR VETERINARIANS AND LAY GROUPS

1. University of Florida College of Veterinary Medicine Annual Referral Veterinarian Day. Gainesville FL, 6/18/16. Canine Influenza Viruses: Tips for Diagnosis and Case Management. 1 hour.
2. 7th Annual Maddie's Shelter Medicine Conference, Orlando, FL; May 19, 2014. Secnidazole Treatment for Giardiasis. 1 hour
3. 6th Annual Maddie's Shelter Medicine Conference/No More Homeless Pets National Conference, Jacksonville, FL; October 12, 2013. Canine circovirus. October 12, 2013. 1 hour.
4. University of Florida College of Veterinary Medicine Annual Referral Veterinarian Day. Gainesville FL, 6/22/13. Tail vaccination in cats: balancing disease protection and cancer treatment. 1 hour.
5. University of Florida College of Veterinary Medicine Annual Referral Veterinarian Day. Gainesville FL, 6/23/12. Beyond kennel cough: using PCR to diagnose respiratory infections. 1 hour.
6. HSUS Animal Care Expo. Las Vegas NV, 5/23/12. Achieving Exceptional Disease Control in Crappy Digs. 1 hour.
7. South Florida Veterinary Medical Association. Miami FL, 4/18/12. Canine distemper: why is this old plague still a threat to dogs in Florida? 1 hour.
8. South Florida Veterinary Foundation Public Lecture Series. Miami FL, 4/19/12. Deadly diseases for dogs and cats in shelters. 1 hour.
9. Maddie's Veterinary Forensics Conference on Recognizing and Responding to Animal Hoarding. Gainesville FL, 3/24/12. Triage and Medical Issues in Animal Hoarding and Other Extreme Neglect Cases. 1 hour.
10. Chicago Veterinary Medical Association. Chicago IL, 2/24/10. Canine influenza. 2 hours.
11. Miami-Dade Veterinary Medical Association. Miami FL, 1/28/10. Canine influenza. 1 hour.
12. Palm Beach Veterinary Medical Association. Palm Beach Gardens FL, 1/27/10. Canine influenza. 1 hour.
13. Broward County Veterinary Medical Association. Ft. Lauderdale FL, 1/26/10. Canine influenza. 1 hour.
14. Georgia Veterinary Specialists. Atlanta GA 1/12/10. Canine influenza. 2 hours.
15. Florida Animal Control Association Annual Conference. Kissimmee FL, 11/20/09. Management of canine distemper outbreaks in shelters. 1 hour
16. New York City Veterinary Medical Association. New York, NY, 11/10/09. Canine influenza. 2 hours
17. Colorado Veterinary Medical Association regional webcast. 11/5/09. Canine influenza. 1 hour
18. Knoxville Veterinary Medical Association. Knoxville TN, 10/27/09. Canine influenza. 2 hours
19. University of Tennessee College of Veterinary Medicine. Knoxville TN, 10/27/09. Canine influenza. 1 hour
20. Asheville Veterinary Medical Association. Asheville NC, 10/26/09. Canine influenza. 2 hours
21. Maddie's Shelter Medicine Conference. Gainesville FL, 10/23-24/09. Issues and strategies for controlling and preventing canine influenza in shelters. Management of disease outbreaks in shelters. 2 hours.
22. American Animal Hospital Association national webcast. 10/22/09. Canine influenza. 1 hour.
23. National Veterinary Association regional webcast. 10/22/09. Canine influenza. 1 hour.
24. NAVC Clinician's Brief series national webcast. 10/09. Canine influenza. 1 hour.
25. Florida Veterinary Specialists. Tampa FL, 10/8/09. Canine influenza. 2 hours.
26. Orlando Veterinary Medical Association. Orlando FL, 9/9/09. Canine influenza. 2 hours.
27. Veterinary Corporation of America national webcast. 8/09. Canine influenza. 1 hour.
28. New Jersey Veterinary Medical Association. Newark NJ, 8/18/09. Canine influenza. 2 hours.

29. AKC/CHF Breeder's Symposium. Tampa FL, 7/25/09. Canine parvovirus and influenza virus. 1 hour.
30. Veterinary Technician Program. Tampa FL, 6/28/09. Strategies for managing and controlling respiratory infections in dogs in Florida shelters. Parvoviral infections in dogs and cats in Florida shelters. 2 hours.
31. American Veterinary Medical Association national podcast. 6/26/09. Canine influenza. 1 hour.
32. Intervet/Schering Plough Animal Health Annual Business Meeting. Dallas TX, 6/22/09. Canine influenza. 1 hour.
33. Pinellas County Veterinary Medical Association. St. Petersburg FL, 6/15/09. Newly emerging and re-emerging respiratory pathogens for dogs. 2 hours.
34. Brevard County Veterinary Medical Association. Melbourne, FL. March 31, 2009. Canine distemper virus: a re-emerging threat to dogs in Florida. 1 hour.
35. Humane Society of Greater Miami. Miami, FL. March 21, 2009. Newly emerging and re-emerging respiratory pathogens for dogs. 2 hours
36. Pasco-Hernando County Veterinary Medical Association. Land O'Lakes, FL. February 18, 2009. Newly emerging and re-emerging respiratory pathogens for dogs. 1 hour
37. Florida Animal Control Association Annual Conference. Cocoa Beach, FL. November 21, 2008. Strategies for managing and controlling infectious diseases in shelters. 1 hour
38. Maddie's Shelter Medicine Program at UF Annual Conference. Gainesville, FL. November 1, 2008. Canine Respiratory Infections in Shelters; Canine and Feline Parvovirus in Shelters. 2 hours
39. Big Bend Veterinary Medical Association. Tallahassee, FL. September 29, 2008. Canine respiratory pathogens in Florida shelters. 1 hour
40. Shelter Medicine Conference. Jacksonville Animal Care and Control, Jacksonville, FL. September 20, 2008. Canine respiratory pathogens in Florida shelters. 1 hour
41. Disaster Medicine Symposium. Tampa Bay SPCA, Largo, FL. September 7, 2008. UF VETS disaster response team. 1 hour
42. Broward County Shelter Veterinary Technician Program. Ft. Lauderdale, FL, May 31, 2008. New respiratory pathogens for dogs; Risk of infectious disease with animal transport. 2 hours.
43. Palm Beach County Veterinary Medical Association. Palm Beach, FL, May 1, 2008. New respiratory pathogens for dogs. 2 hours.
44. North Carolina State University College of Veterinary Medicine, Raleigh, NC, October 9, 2007. Canine influenza. 1 hour.
45. Triangle Virology Club, Research Triangle Park, NC, October 9, 2007. Canine influenza. 1 hour.
46. Ninth Annual Florida Cat Conference, Gainesville, FL, August 9, 2007. Can cats catch the flu? 1 hour.
47. Vancouver Academy of Veterinary Medicine. Vancouver, British Columbia, Canada. June 4, 2007. Canine influenza. 2 hours.
48. Denver Veterinary Medical Association, Denver, CO, October 18, 2006. Canine influenza. 2 hours. Sponsored by Fort Dodge Animal Health.
49. Wisconsin Veterinary Medical Association, Madison, WS, July 28, 2006. Canine influenza. 2 hours.
50. Referral DVM Appreciation Day, College of Veterinary Medicine, University of Florida, Gainesville, FL, July 8, 2006. Update on canine influenza. 1 hour.
51. Hillsborough County Veterinary Medical Association, Tampa, FL, June 17, 2006. Canine influenza. 2 hours. Sponsored by Intervet.
52. Gluck Equine Research Center, University of Kentucky, Lexington, KY, June 4, 2006. Canine influenza. 2 hours.
53. Palm Beach County Veterinary Medical Association, West Palm Beach, FL, May 25, 2006. Canine influenza. 2 hours. Sponsored by Schering Plough.

54. Association of Racing Commissioners International, 72nd Annual Convention, Albuquerque, NM, March 28-April 1, 2006. Influenza virus infection in racing greyhounds. 2 hours.
55. Referral DVM Appreciation Day, College of Veterinary Medicine, University of Florida, Gainesville, FL, July 9, 2005. Canine influenza. 1 hour.
56. North American Parimutuel Regulators Association, Jackson Hole, Wyoming, October 3, 2004. Respiratory infections in racing greyhounds. 1 hour.
57. National Greyhound Association, Abilene, Kansas, April 29, 2004. Influenza virus infection in racing greyhounds. 1 hour.
58. The Seventh Annual Dog Owners and Breeders Symposium, Gainesville, FL, July 26, 2003. Canine herpesvirus. 1 hour.
59. The Fifth Annual Florida Cat Conference, Gainesville, FL, February 1, 2003. Feline health study updates. 1 hour.
60. The Sixth Annual Dog Owners and Breeders Symposium, Gainesville, FL, July 27, 2002. Vaccination and the immune system. 1 hour.
61. The Fourth Annual Florida Cat Conference, Gainesville, FL, February 2, 2002. Feline health study updates. 1 hour.
62. Third Annual Cat Owners and Breeders Symposium, Gainesville, FL, March 3, 2001. Feline health study updates. 1 hour.

SERVICE

1. Medical Director, Veterinary Emergency Treatment Services, University of Florida College of Veterinary Medicine, 2005 – present.
2. Faculty Advisor, Student Chapter of the American Veterinary Medicine Association, University of Florida, 2004 – 2010.
3. Faculty Advisor, Student Chapter of the American Animal Hospital Association, University of Florida, 2004 – 2010.
4. Director, Companion Animal Blood Donor Program, Veterinary Medical Center, University of Florida, 1999 – 2011.
5. Vice President, Operation Catnip, feral cat spay/neuter program, Gainesville, Florida, 1998 - 2010.
6. National Alliance of State Animal and Agricultural Emergency Programs (NASAAEP), Best Practices Working Group for Veterinary Medical Response-Disaster Veterinary Care, 12/7/09-2010.
7. Scientific Program Committee, International Symposium on Neglected Influenza Viruses, Amelia Island FL, February 3-5, 2010.
8. Maddie's Shelter Medicine Conference, Gainesville FL, October 23-24, 2009.
9. Annual SCAVMA Presidents-Faculty Advisors Meeting, AVMA Headquarters, Schaumburg IL, 9/11/09.
10. Maddie's Shelter Medicine Conference, Gainesville FL, November 1, 2008.
11. Annual SCAVMA Presidents-Faculty Advisors Meeting, AVMA Headquarters, Schaumburg IL, 9/10/08.
12. Infection Control Committee, University of Florida, 2005 to 2009.
13. IACUC Committee, University of Florida, June 2006 - June 2008.
14. University of Florida Community Campaign Steering Committee, University of Florida, 2008.
15. Annual SCAVMA Presidents-Faculty Advisors Meeting, AVMA Headquarters, Schaumburg IL, 9/9/07.
16. Organizing Committee, Sixth International Feline Retrovirus Research Symposium, Amelia Island, FL, 2002.

HONORS

- 2004 Florida Association of Kennel Clubs Award for Outstanding Clinical Investigation.
- 2006 Superior Accomplishment Award, Academic Personnel, University of Florida.
- 2006 Pfizer Award for Research Excellence
- 2010 Bark's 100 Best and Brightest Honoree
- 2011 Florida Veterinary Medical Association Community Service Award
- 2013 State Agricultural Response Team Responder Award

PROFESSIONAL MEMBERSHIPS

- Phi Zeta Honor Society for Veterinary Medicine, Upsilon Chapter, University of Florida
- Alachua Veterinary Medical Association
- Florida Veterinary Medical Association
- State Agricultural Response Team, Department of Agriculture and Consumer Services, State of Florida
- American Veterinary Medical Association
- Association of Shelter Veterinarians
- Association for Veterinary Hematology and Transfusion Medicine
- Infectious Disease Special Interest Group, American College of Veterinary Internal Medicine
- International Veterinary Forensic Science Association
- International Society for Companion Animal Infectious Diseases
- International Society for Influenza and other Respiratory Virus Diseases