

2017 Peer-Reviewed Publications from AKC Canine Health Foundation Funding



Year of Publication	CHF Grant ID	Institution/Principal Investigator	APA Citation
2017	0195	University of Edinburgh; Corcoran, Brendan	Thierry, F., Handel, I., Hammond, G., King, L. G., Corcoran, B. M., & Schwarz, T. (2017). Further characterization of computed tomographic and clinical features for staging and prognosis of idiopathic pulmonary fibrosis in West Highland white terriers. <i>Vet Radiol Ultrasound</i> , 58(4), 381-388. doi:10.1111/vru.12491
2017	0652	University of California, Davis; Chomel, Bruno	Harms, A., Segers, F. H., Quebatte, M., Mistl, C., Manfredi, P., Korner, J., . . . Dehio, C. (2017). Evolutionary Dynamics of Pathoadaptation Revealed by Three Independent Acquisitions of the VirB/D4 Type IV Secretion System in Bartonella. <i>Genome Biol Evol</i> , 9(3), 761-776. doi:10.1093/gbe/evx042
2017	0898	University of Wisconsin, Madison; Stepien, Rebecca	Stepien, R. L., Kelliham, H. B., & Luis Fuentes, V. (2017). Prevalence and diagnostic characteristics of non-clinical mitral regurgitation murmurs in North American Whippets. <i>J Vet Cardiol</i> , 19(4), 317-324. doi:10.1016/j.jvc.2017.04.004
2017	0927	North Carolina State University; Olby, Natasha	Urkasemsin, G., Nielsen, D. M., Singleton, A., Arepalli, S., Hernandez, D., Agler, C., & Olby, N. J. (2017). Genetics of Hereditary Ataxia in Scottish Terriers. <i>J Vet Intern Med</i> , 31(4), 1132-1139. doi:10.1111/jvim.14738
2017	1188	Oklahoma State University; Davis, Michael	Davis, M. S., Cummings, S. L., & Payton, M. E. (2017). Effect of brachycephaly and body condition score on respiratory thermoregulation of healthy dogs. <i>J Am Vet Med Assoc</i> , 251(10), 1160-1165. doi:10.2460/javma.251.10.1160
2017	1425	University of Helsinki and the Folkhälsan Institute of Genetics; Lohi, Hannes	Koskinen, L. L., Seppala, E. H., Weissl, J., Jokinen, T. S., Viitmaa, R., Hanninen, R. L., . . . Lohi, H. (2017). ADAM23 is a common risk gene for canine idiopathic epilepsy. <i>BMC Genet</i> , 18(1), 8. doi:10.1186/s12863-017-0478-6
2017	1426	Colorado State University; Thamm, Douglas	Halsey, C. H. C., Thamm, D. H., Weishaar, K. M., Burton, J. H., Charles, J. B., Gustafson, D. L., . . . Ehrhart, E. J. (2017). Expression of Phosphorylated KIT in Canine Mast Cell Tumor. <i>Vet Pathol</i> , 54(3), 387-394. doi:10.1177/0300985816688943
2017	1584	Western University of Health Sciences; Griffon, Dominique	Griffon, D. J., Cunningham, D., Gordon-Evans, W. J., Tanaka, R., Bruecker, K. A., & Boudrieau, R. J. (2017). Evaluation of a scoring system based on conformation factors to predict cranial cruciate ligament disease in Labrador Retrievers. <i>Vet Surg</i> , 46(2), 206-212. doi:10.1111/vsu.12593
2017	1584	Western University of Health Sciences; Griffon, Dominique	Cunningham, D. P., Mostafa, A. A., Gordan-Evans, W. J., Boudrieau, R. J., & Griffon, D. J. (2017). Factors contributing to the variability of a predictive score for cranial cruciate ligament deficiency in Labrador Retrievers. <i>BMC Vet Res</i> , 13(1), 235. doi.org/10.1186/s12917-017-1154-9
2017	1660	The Research Institute at Nationwide Children's Hospital; Alvarez, Carlos	Zaldivar-Lopez, S., Rowell, J. L., Fiala, E. M., Zapata, I., Couto, C. G., & Alvarez, C. E. (2017). Comparative genomics of canine hemoglobin genes reveals primacy of beta subunit delta in adult carnivores. <i>BMC Genomics</i> , 18(1), 141. doi:10.1186/s12864-017-3513-0
2017	1731	Iowa State University; Jeffery, Nick	Jeffery, N. D., Barker, A. K., Alcott, C. J., Levine, J. M., Meren, I., Wengert, J., . . . Suchodolski, J. S. (2017). The Association of Specific Constituents of the Fecal Microbiota with Immune-Mediated Brain Disease in Dogs. <i>PLoS One</i> , 12(1), e0170589. doi:10.1371/journal.pone.0170589
2017	1759	University of Minnesota; Modiano, Jaime	Im, K. S., Graef, A. J., Breen, M., Lindblad-Toh, K., Modiano, J. F., & Kim, J. H. (2017). Interactions between CXCR4 and CXCL12 promote cell migration and invasion of canine hemangiosarcoma. <i>Vet Comp Oncol</i> , 15(2), 315-327. doi:10.1111/vco.12165

2017	1759	University of Minnesota; Modiano, Jaime	Im, K. S., Kim, J. H., Graef, A. J., Cornax, I., Seelig, D. M., O'Sullivan, M. G., . . . Modiano, J. F. (2017). Establishment of a Patient-Derived Xenograft of Canine Enteropathy-Associated T-Cell Lymphoma, Large Cell Type. <i>J Comp Pathol</i> , 156(1), 37-41. doi:10.1016/j.jcpa.2016.11.271
2017	1762	University of Wisconsin, Madison; Muir, Peter	Sample, S. J., Racette, M. A., Hans, E. C., Volstad, N. J., Holzman, G., Bleedorn, J. A., . . . Muir, P. (2017). Radiographic and magnetic resonance imaging predicts severity of cruciate ligament fiber damage and synovitis in dogs with cranial cruciate ligament rupture. <i>PLoS One</i> , 12(6), e0178086. doi:10.1371/journal.pone.0178086
2017	1771	Fred Hutchinson Cancer Research Center; Torok- Storb, Beverly	Harkey, M. A., Villagran, A. M., Venkataraman, G. M., Leisenring, W. M., Hullar, M. A. J., & Torok-Storb, B. J. (2017). Associations between gastric dilatation-volvulus in Great Danes and specific alleles of the canine immune-system genes DLA88, DRB1, and TLR5. <i>Am J Vet Res</i> , 78(8), 934-945. doi:10.2460/ajvr.78.8.934
2017	1771	Fred Hutchinson Cancer Research Center; Torok- Storb, Beverly	Venkataraman, G. M., Kennedy, L. J., Little, M. E., Graves, S. S., Harkey, M. A., Torok-Storb, B. J., & Storb, R. (2017). Thirteen novel canine dog leukocyte antigen-88 alleles identified by sequence-based typing. <i>HLA</i> , 90(3), 165-170. doi:10.1111/tan.13077
2017	1782	University of Louisville; Bertocci, Gina	Brown, N. P., Bertocci, G. E., & Marcellin-Little, D. J. (2017). Canine cranial cruciate ligament deficient stifle biomechanics associated with extra-articular stabilization predicted using a computer model. <i>Vet Surg</i> , 46(5), 653-662. doi:10.1111/vsu.12652
2017	1822	University of California, Los Angeles; Wayne, Robert	Thompson, M. J., vonHoldt, B., Horvath, S., & Pellegrini, M. (2017). An epigenetic aging clock for dogs and wolves. <i>Aging (Albany NY)</i> , 9(3), 1055-1068. doi:10.18632/aging.101211
2017	1866	Texas A&M AgriLife Research; Saunders, Ashley	Winter, R. L., Saunders, A. B., Gordon, S. G., Buch, J. S., & Miller, M. W. (2017). Biologic variability of N-terminal pro-brain natriuretic peptide in healthy dogs and dogs with myxomatous mitral valve disease. <i>J Vet Cardiol</i> , 19(2), 124-131. doi:10.1016/j.jvc.2016.11.001
2017	1866	Texas A&M AgriLife Research; Saunders, Ashley	Winter, R. L., Saunders, A. B., Gordon, S. G., Miller, M. W., Fosgate, G. T., Suchodolski, J. S., & Steiner, J. M. (2017). Biologic variability of cardiac troponin I in healthy dogs and dogs with different stages of myxomatous mitral valve disease using standard and high-sensitivity immunoassays. <i>Vet Clin Pathol</i> , 46(2), 299-307. doi:10.1111/vcp.12495
2017	1889	University of Minnesota; Modiano, Jaime	Borgatti, A., Koopmeiners, J. S., Sarver, A. L., Winter, A. L., Stuebner, K., Todhunter, D., . . . Vallera, D. A. (2017). Safe and Effective Sarcoma Therapy through Bispecific Targeting of EGFR and uPAR. <i>Mol Cancer Ther</i> , 16(5), 956-965. doi:10.1158/1535-7163.MCT-16-0637
2017	1892	University of Louisville; Bertocci, Gina	Bertocci, G. E., Brown, N. P., & Mich, P. M. (2017). Biomechanics of an orthosis-managed cranial cruciate ligament-deficient canine stifle joint predicted by use of a computer model. <i>Am J Vet Res</i> , 78(1), 27-35. doi:10.2460/ajvr.78.1.27
2017	1894	University of Tennessee; Trout Fryxell, Rebecca	Trout Fryxell, R. T., Hendricks, B. M., Pompo, K., Mays, S. E., Paulsen, D. J., Operario, D. J., & Houston, A. E. (2017). Investigating the Adult Ixodid Tick Populations and Their Associated Anaplasma, Ehrlichia, and Rickettsia Bacteria at a Rocky Mountain Spotted Fever Hotspot in Western Tennessee. <i>Vector Borne Zoonotic Dis</i> , 17(8), 527-538. doi:10.1089/vbz.2016.2091

2017	1900	Western University of Health Sciences; Kidd, Linda	Kidd, L., Quorollo, B., Lappin, M., Richter, K., Hart, J. R., Hill, S., . . . Breitschwerdt, E. B. (2017). Prevalence of Vector-Borne Pathogens in Southern California Dogs With Clinical and Laboratory Abnormalities Consistent With Immune-Mediated Disease. <i>J Vet Intern Med</i> , 31(4), 1081-1090. doi:10.1111/jvim.14735
2017	1995	Duke University; MacLean, Evan	MacLean, E. L., Herrmann, E., Suchindran, S., & Hare, B. (2017). Individual differences in cooperative communicative skills are more similar between dogs and humans than chimpanzees. <i>Animal Behaviour</i> , 126, 41-51. doi:10.1016/j.anbehav.2017.01.005
2017	2078	Texas A&M AgriLife Research; Saunders, William	Bearden, R. N., Huggins, S. S., Cummings, K. J., Smith, R., Gregory, C. A., & Saunders, W. B. (2017). In-vitro characterization of canine multipotent stromal cells isolated from synovium, bone marrow, and adipose tissue: a donor-matched comparative study. <i>Stem Cell Res Ther</i> , 8(1), 218. doi:10.1186/s13287-017-0639-6
2017	2078	Texas A&M AgriLife Research; Saunders, William	Gacasan, E. G., Sehnert, R. M., Ehrhardt, D. A., & Grunlan, M. A. (2017). Templated, Macroporous PEG-DA Hydrogels and Their Potential Utility as Tissue Engineering Scaffolds. <i>Macromolecular Materials and Engineering</i> , 302(5). doi:10.1002/mame.201600512
2017	2118	University of Veterinary Medicine of Vienna; Bartel, Cordula	Mair, G., Unger, H., & Gabriel, C. (2017). Combining RPL27 with OAZ1 or RPL8 as Universal Normalizers of Gene Expression in Canine Endometrial Studies - . <i>International Journal of Veterinary Science & Technology</i> , 1, 23-34.
2017	2123	Cornell University; Meyers-Wallen, Vicki	Meyers-Wallen, V. N., Boyko, A. R., Danko, C. G., Grenier, J. K., Mezey, J. G., Hayward, J. J., . . . Sinclair, A. H. (2017). XX Disorder of Sex Development is associated with an insertion on chromosome 9 and downregulation of RSPO1 in dogs (<i>Canis lupus familiaris</i>). <i>PLoS One</i> , 12(10), e0186331. doi:10.1371/journal.pone.0186331
2017	2124	University of California, Davis; Meyers, Stuart	Hesser, A., Darr, C., Gonzales, K., Power, H., Scanlan, T., Thompson, J., . . . Meyers, S. (2017). Semen evaluation and fertility assessment in a purebred dog breeding facility. <i>Theriogenology</i> , 87, 115-123. doi:10.1016/j.theriogenology.2016.08.012
2017	2142	University of Georgia Research Foundation, Inc; Franklin, Samuel	Franklin, S. P., Burke, E. E., & Holmes, S. P. (2017). Utility of MRI for Characterizing Articular Cartilage Pathology in Dogs with Medial Coronoid Process Disease. <i>Front Vet Sci</i> , 4, 25. doi:10.3389/fvets.2017.00025
2017	2148	University of Montreal; Blais, Marie-Claude	Goulet, S., Giger, U., Arseneault, J., Abrams-Ogg, A., Euler, C. C., & Blais, M. C. (2017). Prevalence and Mode of Inheritance of the Dal Blood Group in Dogs in North America. <i>J Vet Intern Med</i> , 31(3), 751-758. doi:10.1111/jvim.14693
2017	2165	University of Missouri, Columbia; Coates, Joan	Toedebusch, C. M., Bachrach, M. D., Garcia, V. B., Johnson, G. C., Katz, M. L., Shaw, G., . . . Garcia, M. L. (2017). Cerebrospinal Fluid Levels of Phosphorylated Neurofilament Heavy as a Diagnostic Marker of Canine Degenerative Myelopathy. <i>J Vet Intern Med</i> , 31(2), 513-520. doi:10.1111/jvim.14659
2017	2204	University of Illinois; Selmic, Laura	Mesa, K. J., Selmic, L. E., Pande, P., Monroy, G. L., Reagan, J., Samuelson, J., . . . Boppart, S. A. (2017). Intraoperative optical coherence tomography for soft tissue sarcoma differentiation and margin identification. <i>Lasers Surg Med</i> , 49(3), 240-248. doi:10.1002/lsm.22633
2017	2248	The Folkhälsan Institute of Genetics; Lohi, Hannes	Wielander, F., Sarviaho, R., James, F., Hytonen, M. K., Cortez, M. A., Kluger, G., . . . Lohi, H. (2017). Generalized myoclonic epilepsy with photosensitivity in juvenile dogs caused by a defective DIRAS family GTPase 1. <i>Proc Natl Acad Sci U S A</i> , 114(10), 2669-2674. doi:10.1073/pnas.1614478114

2017	2257	University of Missouri, Columbia; Johnson, Gary	Kolicheski, A., Barnes Heller, H. L., Arnold, S., Schnabel, R. D., Taylor, J. F., Knox, C. A., . . . Katz, M. L. (2017). Homozygous PPT1 Splice Donor Mutation in a Cane Corso Dog With Neuronal Ceroid Lipofuscinosis. <i>J Vet Intern Med</i> , 31(1), 149-157. doi:10.1111/jvim.14632
2017	2257	University of Missouri, Columbia; Johnson, Gary	Kolicheski, A., Johnson, G. S., Villani, N. A., O'Brien, D. P., Mhlanga-Mutangadura, T., Wenger, D. A., . . . Katz, M. L. (2017). GM2 Gangliosidosis in Shiba Inu Dogs with an In-Frame Deletion in HEXB. <i>J Vet Intern Med</i> , 31(5), 1520-1526. doi:10.1111/jvim.14794
2017	2261	Clemson University; Clark, Leigh	Evans, J. M., Noorai, R. E., Tsai, K. L., Starr-Moss, A. N., Hill, C. M., Anderson, K. J., . . . Clark, L. A. (2017). Beyond the MHC: A canine model of dermatomyositis shows a complex pattern of genetic risk involving novel loci. <i>PLoS Genet</i> , 13(2), e1006604. doi:10.1371/journal.pgen.1006604
2017	Fellowship 2014	Colorado State University	Regan, D. P., Escaffi, A., Coy, J., Kurihara, J., & Dow, S. W. (2017). Role of monocyte recruitment in hemangiosarcoma metastasis in dogs. <i>Vet Comp Oncol</i> , 15(4), 1309-1322. doi:10.1111/vco.12272
2017	Fellowship 2015	Broad Institute; Lindblad-Toh, Kerstin	Noh, H. J., Tang, R., Flannick, J., O'Dushlaine, C., Swofford, R., Howrigan, D., . . . Lindblad-Toh, K. (2017). Integrating evolutionary and regulatory information with a multispecies approach implicates genes and pathways in obsessive-compulsive disorder. <i>Nat Commun</i> , 8(1), 774. doi:10.1038/s41467-017-00831-x