

2014 Peer-Reviewed Publications from AKC Canine Health Foundation Funding



Year of Publication	CHF Grant ID	Institution/Principal Investigator	APA Citation
2014	0065	Fred Hutchinson Cancer Research Center; Ostrander, Elaine	Davis, B. W., & Ostrander, E. A. (2014). Domestic dogs and cancer research: a breed-based genomics approach. <i>ILAR J</i> , 55(1), 59-68. doi:10.1093/ilar/ilu017
2014	0323	University of Wisconsin, Madison; Duncan, Ian	Pemberton, T. J., Choi, S., Mayer, J. A., Li, F. Y., Gokey, N., Svaren, J., . . . Duncan, I. D. (2014). A mutation in the canine gene encoding folliculin-interacting protein 2 (FNIP2) associated with a unique disruption in spinal cord myelination. <i>Glia</i> , 62(1), 39-51. doi:10.1002/glia.22582
2014	0407	North Carolina State University; Olby, Natasha	Agler, C., Nielsen, D. M., Urkasemsin, G., Singleton, A., Tonomura, N., Sigurdsson, S., . . . Olby, N. J. (2014). Canine hereditary ataxia in old english sheepdogs and gordon setters is associated with a defect in the autophagy gene encoding RAB24. <i>PLoS Genet</i> , 10(2), e1003991. doi:10.1371/journal.pgen.1003991
2014	0422	University of Colorado Cancer Center; Bellgrau, Don	Kim, J. H., Frantz, A. M., Anderson, K. L., Graef, A. J., Scott, M. C., Robinson, S., . . . Modiano, J. F. (2014). Interleukin-8 promotes canine hemangiosarcoma growth by regulating the tumor microenvironment. <i>Exp Cell Res</i> , 323(1), 155-164. doi:10.1016/j.yexcr.2014.02.020
2014	0580	University of Utrecht; Hazewinkel, Herman	Lavrijsen, I. C., Leegwater, P. A., Wangdee, C., van Steenbeek, F. G., Schwencke, M., Breur, G. J., . . . Hazewinkel, H. A. (2014). Genome-wide survey indicates involvement of loci on canine chromosomes 7 and 31 in patellar luxation in Flat-Coated Retrievers. <i>BMC Genet</i> , 15(1), 64. doi:10.1186/1471-2156-15-64
2014	0821	University of Missouri, Columbia; Coates, Joan	Zeng, R., Coates, J. R., Johnson, G. C., Hansen, L., Awano, T., Kolichski, A., . . . Johnson, G. S. (2014). Breed distribution of SOD1 alleles previously associated with canine degenerative myelopathy. <i>J Vet Intern Med</i> , 28(2), 515-521. doi:10.1111/jvim.12317
2014	0841	Ohio State University; Couto, Guillermo	Hosoya, K., Couto, C. G., London, C. A., Kisseberth, W. C., Phelps, M. A., & Dalton, J. T. (2014). Comparison of high-dose intermittent and low-dose continuous oral artemisinin in dogs with naturally occurring tumors. <i>J Am Anim Hosp Assoc</i> , 50(6), 390-395. doi:10.5326/JAAHA-MS-6145
2014	0871	University of Manchester; Kennedy, Lorna	Massey, J., Short, A. D., Catchpole, B., House, A., Day, M. J., Lohi, H., . . . Kennedy, L. J. (2014). Genetics of canine anal furunculosis in the German shepherd dog. <i>Immunogenetics</i> , 66(5), 311-324. doi:10.1007/s00251-014-0766-5
2014	0920	University of Minnesota; Mickelson, James	Ekenstedt, K. J., Becker, D., Minor, K. M., Shelton, G. D., Patterson, E. E., Bley, T., . . . Mickelson, J. R. (2014). An ARHGEF10 deletion is highly associated with a juvenile-onset inherited polyneuropathy in Leonberger and Saint Bernard dogs. <i>PLoS Genet</i> , 10(10), e1004635. doi:10.1371/journal.pgen.1004635
2014	0945	Iowa State University; Jergens, Albert	Jergens, A., Young, J., Moore, D., Wang, C., Hostetter, J., Augustine, L., . . . Mosher, C. (2014). Bcl-2/caspase 3 mucosal imbalance favors T cell resistance to apoptosis in dogs with inflammatory bowel disease. <i>Vet Immunol Immunopathol</i> , 158(3-4), 167-174. doi:10.1016/j.vetimm.2014.01.004

2014	0954	University of Montreal; Kibar, Zoha	Lemay, P., Knowler, S. P., Bouasker, S., Nedelec, Y., Platt, S., Freeman, C., . . . Kibar, Z. (2014). Quantitative trait loci (QTL) study identifies novel genomic regions associated to Chiari-like malformation in Griffon Bruxellois dogs. <i>PLoS One</i> , 9(4), e89816. doi:10.1371/journal.pone.0089816
2014	1004	University of Georgia; Kent, Marc	Freeman, A. C., Platt, S. R., Kent, M., Huguet, E., Rusbridge, C., & Holmes, S. (2014). Chiari-like malformation and syringomyelia in American Brussels Griffon dogs. <i>J Vet Intern Med</i> , 28(5), 1551-1559. doi:10.1111/jvim.12421
2014	1004	University of Georgia; Kent, Marc	Knowler, S. P., McFadyen, A. K., Freeman, C., Kent, M., Platt, S. R., Kibar, Z., & Rusbridge, C. (2014). Quantitative analysis of Chiari-like malformation and syringomyelia in the Griffon Bruxellois dog. <i>PLoS One</i> , 9(2), e88120. doi:10.1371/journal.pone.0088120
2014	1131	University of Minnesota; Modiano, Jaime	Borgatti, A. (2014). Binding of VEGF-A to canine cancer cells with preferential expression of VEGFR1. <i>Veterinary World</i> , 7(1), 1-6. doi:10.14202/vetworld.2014.1-6
2014	1131	University of Minnesota; Modiano, Jaime	Gorden, B. H., Kim, J. H., Sarver, A. L., Frantz, A. M., Breen, M., Lindblad-Toh, K., . . . Dickerson, E. B. (2014). Identification of three molecular and functional subtypes in canine hemangiosarcoma through gene expression profiling and progenitor cell characterization. <i>Am J Pathol</i> , 184(4), 985-995. doi:10.1016/j.ajpath.2013.12.025
2014	1131	University of Minnesota; Modiano, Jaime	Thomas, R., Borst, L., Rotroff, D., Motsinger-Reif, A., Lindblad-Toh, K., Modiano, J. F., & Breen, M. (2014). Genomic profiling reveals extensive heterogeneity in somatic DNA copy number aberrations of canine hemangiosarcoma. <i>Chromosome Res</i> , 22(3), 305-319. doi:10.1007/s10577-014-9406-z
2014	1159	Iowa State University; Petersen, Christine	Kauffman, L. K., Bjork, J. K., Gallup, J. M., Boggiatto, P. M., Bellaire, B. H., & Petersen, C. A. (2014). Early detection of <i>Brucella canis</i> via quantitative polymerase chain reaction analysis. <i>Zoonoses Public Health</i> , 61(1), 48-54. doi:10.1111/zph.12041
2014	1212	University of Missouri, Columbia; Coates, Joan	Morgan, B. R., Coates, J. R., Johnson, G. C., Shelton, G. D., & Katz, M. L. (2014). Characterization of thoracic motor and sensory neurons and spinal nerve roots in canine degenerative myelopathy, a potential disease model of amyotrophic lateral sclerosis. <i>J Neurosci Res</i> , 92(4), 531-541. doi:10.1002/jnr.23332
2014	1248	Iowa State University; Rothschild, Max	Zhao, X., Onteru, S., Saatchi, M., Garrick, D., & Rothschild, M. (2014). A genome-wide association study for canine cryptorchidism in Siberian Huskies. <i>J Anim Breed Genet</i> , 131(3), 202-209. doi:10.1111/jbg.12064
2014	1265	University of Wollongong; Sluyter, Ronald	Bartlett, R., Stokes, L., & Sluyter, R. (2014). The P2X7 receptor channel: recent developments and the use of P2X7 antagonists in models of disease. <i>Pharmacol Rev</i> , 66(3), 638-675. doi:10.1124/pr.113.008003
2014	1265	University of Wollongong; Sluyter, Ronald	Spildrejorde, M., Bartlett, R., Stokes, L., Jalilian, I., Peranec, M., Sluyter, V., . . . Sluyter, R. (2014). R270C polymorphism leads to loss of function of the canine P2X7 receptor. <i>Physiol Genomics</i> , 46(14), 512-522. doi:10.1152/physiolgenomics.00195.2013
2014	1311	Clemson University; Starr- Moss, Alison	Rinz, C. J., Levine, J., Minor, K. M., Humphries, H. D., Lara, R., Starr-Moss, A. N., . . . Clark, L. A. (2014). A COLQ missense mutation in Labrador Retrievers having congenital myasthenic syndrome. <i>PLoS One</i> , 9(8), e106425. doi:10.1371/journal.pone.0106425
2014	1364	Hebrew University of Jerusalem; Bruchim, Yaron	Bruchim, Y., Aroch, I., Eliav, A., Abbas, A., Frank, I., Kelmer, E., . . . Horowitz, M. (2014). Two years of combined high-intensity physical training and heat acclimatization affect lymphocyte and serum HSP70 in purebred military working dogs. <i>J Appl Physiol</i> (1985), 117(2), 112-118. doi:10.1152/jappphysiol.00090.2014

2014	1390	Veterinary Specialty Hospital of San Diego; West, Laura	West, L. D., & Hart, J. R. (2014). Treatment of idiopathic immune-mediated hemolytic anemia with mycophenolate mofetil in five dogs. <i>J Vet Emerg Crit Care (San Antonio)</i> , 24(2), 226-231. doi:10.1111/vec.12121
2014	1418	Texas A&M Research Foundation; Wilson-Robles, Heather	O'Connor, C. M., & Wilson-Robles, H. (2014). Developing T cell cancer immunotherapy in the dog with lymphoma. <i>ILAR J</i> , 55(1), 169-181. doi:10.1093/ilar/ilu020
2014	1424	University of California, Davis; Bannasch, Danika	Wolf, Z. T., Leslie, E. J., Arzi, B., Jayashankar, K., Karmi, N., Jia, Z., . . . Bannasch, D. L. (2014). A LINE-1 insertion in DLX6 is responsible for cleft palate and mandibular abnormalities in a canine model of Pierre Robin sequence. <i>PLoS Genet</i> , 10(4), e1004257. doi:10.1371/journal.pgen.1004257
2014	1455	University of Georgia; Platt, Simon	Schrauwen, I., Barber, R. M., Schatzberg, S. J., Siniard, A. L., Corneveaux, J. J., Porter, B. F., . . . Huentelman, M. J. (2014). Identification of novel genetic risk loci in Maltese dogs with necrotizing meningoencephalitis and evidence of a shared genetic risk across toy dog breeds. <i>PLoS One</i> , 9(11), e112755. doi:10.1371/journal.pone.0112755
2014	1480	University of California, Davis; Foley, Janet	Hennebelle, J. H., Sykes, J. E., & Foley, J. (2014). Risk factors associated with leptospirosis in dogs from Northern California: 2001-2010. <i>Vector Borne Zoonotic Dis</i> , 14(10), 733-739. doi:10.1089/vbz.2014.1624
2014	1488	University of California, Davis; Hart, Benjamin	Hart, B. L., Hart, L. A., Thigpen, A. P., & Willits, N. H. (2014). Long-term health effects of neutering dogs: comparison of Labrador Retrievers with Golden Retrievers. <i>PLoS One</i> , 9(7), e102241. doi:10.1371/journal.pone.0102241
2014	1495	University of California, Davis; Jandrey, Karl	Hoareau, G. L., Jandrey, K. E., Burges, J., Bremer, D., & Tablin, F. (2014). Comparison of the platelet-rich plasma and buffy coat protocols for preparation of canine platelet concentrates. <i>Vet Clin Pathol</i> , 43(4), 513-518. doi:10.1111/vcp.12195
2014	1505	University of Wisconsin, Madison; Trepanier, Lauren	Foster, J. D., Sample, S., Kohler, R., Watson, K., Muir, P., & Trepanier, L. A. (2014). Serum biomarkers of clinical and cytologic response in dogs with idiopathic immune-mediated polyarthropathy. <i>J Vet Intern Med</i> , 28(3), 905-911. doi:10.1111/jvim.12351
2014	1524	University of Missouri, Columbia; Axiak, Sandra	Axiak-Bechtel, S., Fowler, B., Yu, D. H., Amorim, J., Tsuruta, K., & DeClue, A. (2014). Chemotherapy and remission status do not alter pre-existing innate immune dysfunction in dogs with lymphoma. <i>Res Vet Sci</i> , 97(2), 230-237. doi:10.1016/j.rvsc.2014.07.009
2014	1529	University of Pennsylvania; Oyama, Mark	Cremer, S. E., Singletary, G. E., Olsen, L. H., Wallace, K., Haggstrom, J., Ljungvall, I., . . . Oyama, M. A. (2014). Serotonin concentrations in platelets, plasma, mitral valve leaflet, and left ventricular myocardial tissue in dogs with myxomatous mitral valve disease. <i>J Vet Intern Med</i> , 28(5), 1534-1540. doi:10.1111/jvim.12420
2014	1533	University of Louisville; Bertocci, Gina	Brown, N. P., Bertocci, G. E., & Marcellin-Little, D. J. (2014). Evaluation of varying morphological parameters on the biomechanics of a cranial cruciate ligament-deficient or intact canine stifle joint with a computer simulation model. <i>Am J Vet Res</i> , 75(1), 26-33. doi:10.2460/ajvr.75.1.26
2014	1545	Purdue University; Childress, Michael	Childress, M. O., Dhawan, D., Leamon, C. P., Miller, M. A., Ramos-Vara, J. A., Naughton, J. F., . . . Knapp, D. W. (2014). Assessment of folate receptor expression and folate uptake in multicentric lymphomas in dogs. <i>Am J Vet Res</i> , 75(2), 187-194. doi:10.2460/ajvr.75.2.187
2014	1569	Colorado State University; Thamm, Douglas	Morges, M. A., Burton, J. H., Saba, C. F., Vail, D. M., Burgess, K. E., & Thamm, D. H. (2014). Phase II evaluation of VDC-1101 in canine cutaneous T-cell lymphoma. <i>J Vet Intern Med</i> , 28(5), 1569-1574. doi:10.1111/jvim.12429

2014	1594	University of Iowa; Kuehn, Markus	Ahram, D. F., Cook, A. C., Kecova, H., Grozdanic, S. D., & Kuehn, M. H. (2014). Identification of genetic loci associated with primary angle-closure glaucoma in the basset hound. <i>Mol Vis</i> , 20, 497-510.
2014	1609	Iowa State University; Jergens, Albert	Rossi, G., Pengo, G., Caldin, M., Palumbo Piccionello, A., Steiner, J. M., Cohen, N. D., . . . Suchodolski, J. S. (2014). Comparison of microbiological, histological, and immunomodulatory parameters in response to treatment with either combination therapy with prednisone and metronidazole or probiotic VSL#3 strains in dogs with idiopathic inflammatory bowel disease. <i>PLoS One</i> , 9(4), e94699. doi:10.1371/journal.pone.0094699
2014	1651	Arizona State University; Johnston, Stephen	Johnston, S. A., Thamm, D. H., & Legutki, J. B. (2014). The immunosignature of canine lymphoma: characterization and diagnostic application. <i>BMC Cancer</i> , 14, 657. doi:10.1186/1471-2407-14-657
2014	1660	The Research Institute at Nationwide Children's Hospital; Alvarez, Carlos	Alvarez, C. E. (2014). Naturally occurring cancers in dogs: insights for translational genetics and medicine. <i>ILAR J</i> , 55(1), 16-45. doi:10.1093/ilar/ilu010
2014	1701	University of Missouri, Columbia; DeClue, Amy	DeClue, A. E., Yu, D. H., Prochnow, S., Axiak-Bechtel, S., Amorim, J., Tsuruta, K., . . . Dodam, J. (2014). Effects of opioids on phagocytic function, oxidative burst capacity, cytokine production and apoptosis in canine leukocytes. <i>Vet J</i> , 200(2), 270-275. doi:10.1016/j.tvjl.2014.02.019
2014	1753	North Carolina State University; Meurs, Kathryn	Meurs, K. M., Stern, J. A., Reina-Doreste, Y., Spier, A. W., Koplitz, S. L., & Baumwart, R. D. (2014). Natural history of arrhythmogenic right ventricular cardiomyopathy in the boxer dog: a prospective study. <i>J Vet Intern Med</i> , 28(4), 1214-1220. doi:10.1111/jvim.12385
2014	1782	University of Louisville; Bertocci, Gina	Brown, N. P., Bertocci, G. E., & Marcellin-Little, D. J. (2014). Canine stifle joint biomechanics associated with tibial plateau leveling osteotomy predicted by use of a computer model. <i>Am J Vet Res</i> , 75(7), 626-632. doi:10.2460/ajvr.75.7.626
2014	1849	University of Georgia Research Foundation, Inc; Zhao, Shaying	Li, Y., Xu, J., Xiong, H., Ma, Z., Wang, Z., Kipreos, E. T., . . . Zhao, S. (2014). Cancer driver candidate genes AVL9, DENND5A and NUPL1 contribute to MDCK cystogenesis. <i>Oncoscience</i> , 1(12), 854-865.
2014	1849	University of Georgia Research Foundation, Inc; Zhao, Shaying	Liu, D., Xiong, H., Ellis, A. E., Northrup, N. C., Rodriguez, C. O., Jr., O'Regan, R. M., . . . Zhao, S. (2014). Molecular homology and difference between spontaneous canine mammary cancer and human breast cancer. <i>Cancer Res</i> , 74(18), 5045-5056. doi:10.1158/0008-5472.CAN-14-0392
2014	1854	University of Florida; Wynne, Clive	Protopopova, A., Hall, N. J., & Wynne, C. D. (2014). Association between increased behavioral persistence and stereotypy in the pet dog. <i>Behav Processes</i> , 106, 77-81. doi:10.1016/j.beproc.2014.04.009
2014	1894	University of Tennessee; Trout Fryxell, Rebecca	Mays, S. E., Hendricks, B. M., Paulsen, D. J., Houston, A. E., & Trout Fryxell, R. T. (2014). Prevalence of five tick-borne bacterial genera in adult Ixodes scapularis removed from white-tailed deer in western Tennessee. <i>Parasit Vectors</i> , 7(1), 473. doi:10.1186/s13071-014-0473-y
2014	1935	Michigan State University; Nelson, Laura	Gazzola, K. M., & Nelson, L. L. (2014). The relationship between gastrointestinal motility and gastric dilatation-volvulus in dogs. <i>Top Companion Anim Med</i> , 29(3), 64-66. doi:10.1053/j.tcam.2014.09.006
2014	1937	Tufts University; Rozanski, Elizabeth	Bell, J. S. (2014). Inherited and predisposing factors in the development of gastric dilatation volvulus in dogs. <i>Top Companion Anim Med</i> , 29(3), 60-63. doi:10.1053/j.tcam.2014.09.002
2014	1937	Tufts University; Rozanski, Elizabeth	Sharp, C. R., & Rozanski, E. A. (2014). Cardiovascular and systemic effects of gastric dilatation and volvulus in dogs. <i>Top Companion Anim Med</i> , 29(3), 67-70. doi:10.1053/j.tcam.2014.09.007

2014	1985	University of Wollongong; Sluyter, Ronald	Sluyter, R., & Stokes, L. (2014). Polymorphic variants of the P2X7 receptor in the domestic dog.
2014	2011	University of Utrecht; Galac, Sara	Galac, S., Kool, M. M., van den Berg, M. F., Mol, J. A., & Kooistra, H. S. (2014). Expression of steroidogenic factor 1 in canine cortisol-secreting adrenocortical tumors and normal adrenals. <i>Domest Anim Endocrinol</i> , 49, 1-5. doi:10.1016/j.domaniend.2014.04.002
2014	2071	University of Minnesota; Pluhar, Grace	Olin, M. R., Pluhar, G. E., Andersen, B. M., Shaver, R., Waldron, N. N., & Moertel, C. L. (2014). Victory and Defeat in the Induction of a Therapeutic Response through Vaccine Therapy for Human and Canine Brain Tumors: A Review of the State of the Art. <i>Critical Reviews in Immunology</i> , 34(5), 399-432. doi:10.1615/CritRevImmuno.2014011577
2014	2083	University of Guelph; Singh, Ameet	Crawford, E. C., Singh, A., Metcalf, D., Gibson, T. W., & Weese, S. J. (2014). Identification of appropriate reference genes for qPCR studies in <i>Staphylococcus pseudintermedius</i> and preliminary assessment of icaA gene expression in biofilm-embedded bacteria. <i>BMC Res Notes</i> , 7(1), 451. doi:10.1186/1756-0500-7-451
2014	2091	National Human Genome Research Institute; Ostrander, Elaine	Schoenebeck, J. J., & Ostrander, E. A. (2014). Insights into morphology and disease from the dog genome project. <i>Annu Rev Cell Dev Biol</i> , 30, 535-560. doi:10.1146/annurev-cellbio-100913-012927