2014 Peer-Reviewed Publications

Resulting from AKC Canine Health Foundation research grants

CHF Grant ID	APA Citation	Institution; Principal Investigator
00407	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. *PLoS Genetics*, *10*(2), e1003991. https://doi.org/10.1371/journal.pgen.1003991	North Carolina State University; Olby
01594	Ahram, D. F., Cook, A. C., Kecova, H., Grozdanic, S. D., & Kuehn, M. H. (2014). Identification of genetic loci associated with primary angle-closure. *Molecular Vision*, 14.	University of Iowa; Kuehn
01660	Alvarez, C. E. (2014). Naturally Occurring Cancers in Dogs: Insights for Translational Genetics and Medicine. *ILAR Journal*, *55*(1), 16–45. https://doi.org/10.1093/ilar/ilu010	The Research Institute at Nationwide Children's Hospital; Alvarez
01524-A	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. *Research in Veterinary Science*, *97*(2), 230–237. https://doi.org/10.1016/j.rvsc.2014.07.009	University of Missouri, Columbia; Axiak
01265	Bartlett, R., Stokes, L., & Sluyter, R. (2014). The P2X7 Receptor Channel: Recent Developments and the Use of P2X7 Antagonists in Models of Disease. *Pharmacological Reviews*, *66*(3), 638–675. https://doi.org/10.1124/pr.113.008003	University of Wollongong; Sluyter
01937-B	Bell, J. S. (2014). Inherited and Predisposing Factors in the Development of Gastric Dilatation Volvulus in Dogs. *Topics in Companion Animal Medicine*, *29*(3), 60–63. https://doi.org/10.1053/j.tcam.2014.09.002	Tufts University; Rozanski
01131	Borgatti, A. (2014). Binding of VEGF-A to canine cancer cells with preferential expression of VEGFR1. *Veterinary World*, *7*(1), 1–6. https://doi.org/10.14202/vetworld.2014.1-6	University of Minnesota; Modiano

01533-A	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. *American Journal of Veterinary Research*, *75*(1), 26–33. https://doi.org/10.2460/ajvr.75.1.26	University of Louisville; Bertocci
01782	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. *American Journal of Veterinary Research*, *75*(7), 626–632. https://doi.org/10.2460/ajvr.75.7.626	University of Louisville; Bertocci
01364-A	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. *Journal of Applied Physiology*, *117*(2), 112–118. https://doi.org/10.1152/japplphysiol.00090.2014	Hebrew University of Jerusalem; Bruchim
01545-A	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. *American Journal of Veterinary Research*, *75*(2), 187–194. https://doi.org/10.2460/ajvr.75.2.187	Purdue University; Childress
02083-A	Crawford, E. C., Singh, A., Metcalf, D., Gibson, T. W., & Weese, S. J. (2014). Identification of appropriate reference genes for qPCR studies in *Staphylococcus pseudintermedius* and preliminary assessment of icaA gene expression in biofilm-embedded bacteria. *BMC Research Notes*, *7*(1), 451. https://doi.org/10.1186/1756-0500-7-451	University of Guelph; Singh
01529-A	Cremer, S. E., Singletary, G. E., Olsen, L. H., Wallace, K., Häggström, 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. *Journal of Veterinary Internal Medicine*, *28*(5), 1534–1540. https://doi.org/10.1111/jvim.12420	University of Pennsylvania; Oyama
0001808A	Davis, B. W., & Ostrander, E. A. (2014). Domestic Dogs and Cancer Research: A Breed-Based Genomics Approach. *ILAR Journal*, *55*(1), 59–68. https://doi.org/10.1093/ilar/ilu017	Fred Hutchinson Cancer Research Center; Ostrander
01701-A	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. *The Veterinary Journal*, *200*(2), 270–275. https://doi.org/10.1016/j.tvjl.2014.02.019	University of Missouri, Columbia; DeClue

00920	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. *PLoS Genetics*, *10*(10), e1004635. https://doi.org/10.1371/journal.pgen.1004635	University of Minnesota; Mickelson
01505-A	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. *Journal of Veterinary Internal Medicine*, *28*(3), 905–911. https://doi.org/10.1111/jvim.12351	University of Wisconsin, Madison; Trepanier
01004	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. *Journal of Veterinary Internal Medicine*, *28*(5), 1551–1559. https://doi.org/10.1111/jvim.12421	University of Georgia; Kent
02011	Galac, S., Kool, M. M. J., 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. *Domestic Animal Endocrinology*, *49*, 1–5. https://doi.org/10.1016/j.domaniend.2014.04.002	University of Utrecht; Galac
01935-B	Gazzola, K. M., & Nelson, L. L. (2014). The Relationship Between Gastrointestinal Motility and Gastric Dilatation-Volvulus in Dogs. *Topics in Companion Animal Medicine*, *29*(3), 64–66. https://doi.org/10.1053/j.tcam.2014.09.006	Michigan State University; Stanley
01131	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. *The American Journal of Pathology*, *184*(4), 985–995. https://doi.org/10.1016/j.ajpath.2013.12.025	University of Minnesota; Modiano
01488-A	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. *PLoS ONE*, *9*(7), e102241. https://doi.org/10.1371/journal.pone.0102241	University of California, Davis; Hart
01480	Hennebelle, J. H., Sykes, J. E., & Foley, J. (2014). Risk Factors Associated with Leptospirosis in Dogs from Northern California: 2001–2010. *Vector-Borne and Zoonotic Diseases*, *14*(10), 733–739. https://doi.org/10.1089/vbz.2014.1624	University of California, Davis; Foley

01495-A	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. *Veterinary Clinical Pathology*, *43*(4), 513–518. https://doi.org/10.1111/vcp.12195	University of California, Davis; Jandrey
00841-A	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. *Journal of the American Animal Hospital Association*, *50*(6), 390–395. https://doi.org/10.5326/JAAHA-MS-6145	The Ohio State University; Couto
00945	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. *Veterinary Immunology and Immunopathology*, *158*(3–4), 167–174. https://doi.org/10.1016/j.vetimm.2014.01.004	Iowa State University; Jergens
01651	Johnston, S. A., Thamm, D. H., & Legutki, J. B. (2014). The immunosignature of canine lymphoma: characterization and diagnostic application. *BMC Cancer*, *14*(1). https://doi.org/10.1186/1471-2407-14-657	Arizona State University; Johnston
01159-A	Kauffman, L. K., Bjork, J. K., Gallup, J. M., Boggiatto, P. M., Bellaire, B. H., & Petersen, C. A. (2014). Early detection of *Brucella canis* via quantitative polymerase chain reaction analysis. *Zoonoses and Public Health*, *61*(1), 48–54. https://doi.org/10.1111/zph.12041	Iowa State University; Petersen
00422	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. *Experimental Cell Research*, *323*(1), 155–164. https://doi.org/10.1016/j.yexcr.2014.02.020	University of Colorado Cancer Center; Bellgrau
01004	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. *PLoS ONE*, *9*(2), e88120. https://doi.org/10.1371/journal.pone.0088120	University of Georgia; Kent
01131	Koopmeiners, J. S., & Modiano, J. (2014). A Bayesian adaptive Phase I-II clinical trial for evaluating efficacy and toxicity with delayed outcomes. *Clinical Trials (London, England)*, *11*(1), 38–48. https://doi.org/10.1177/1740774513500589	University of Minnesota; Modiano

00580	Lavrijsen, I. C. M., Leegwater, P. A. J., Wangdee, C., van Steenbeek, F. G., Schwencke, M., Breur, G. J., … Hazewinkel, H. A. W. (2014). Genome-wide survey indicates involvement of loci on canine chromosomes 7 and 31 in patellar luxation in Flat-Coated Retrievers. *BMC Genetics*, *15*(1), 64. https://doi.org/10.1186/1471-2156-15-64	University of Utrecht; Hazewinkel
00954	Lemay, P., Knowler, S. P., Bouasker, S., Nédélec, 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. *PLoS ONE*, *9*(4), e89816. https://doi.org/10.1371/journal.pone.0089816	University of Montreal; Kibar
01849	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. *Oncoscience*, *1*, 854. https://doi.org/10.18632/oncoscience.107	University of Georgia Research Foundation, Inc; Zhao
01849	Liu, D., Xiong, H., Ellis, A. E., Northrup, N. C., Rodriguez, C. O., O'Regan, R. M., … Zhao, S. (2014). Molecular Homology and Difference between Spontaneous Canine Mammary Cancer and Human Breast Cancer. *Cancer Research*, *74*(18), 5045–5056. https://doi.org/10.1158/0008-5472.CAN-14-0392	University of Georgia Research Foundation, Inc; Zhao
00871-A	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. *Immunogenetics*, *66*(5), 311–324. https://doi.org/10.1007/s00251-014-0766-5	University of Manchester; Kennedy
01894-A	Mays, S. E., Hendricks, B. M., Paulsen, D. J., Houston, A. E., & Fryxell, R. T. T. (2014). Prevalence of five tick-borne bacterial genera in adult *Ixodes scapularis* removed from white-tailed deer in western Tennessee. *Parasites and Vectors*, *7*, 473.	University of Tennessee; Trout-Fryxell
00582-A	Mellersh, C. S. (2014). The genetics of eye disorders in the dog. *Canine Genetics and Epidemiology*, *1*(1), 3. https://doi.org/10.1186/2052-6687-1-3	Animal Health Trust; Mellersh
01753	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. *Journal of Veterinary Internal Medicine*, *28*(4), 1214–1220. https://doi.org/10.1111/jvim.12385	North Carolina State University; Meurs

01212-A	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. *Journal of Neuroscience Research*, *92*(4), 531–541. https://doi.org/10.1002/jnr.23332	University of Missouri, Columbia; Coates
01569	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. *Journal of Veterinary Internal Medicine*, *28*(5), 1569–1574. https://doi.org/10.1111/jvim.12429	Colorado State University; Thamm
01418	O'Connor, C. M., & Wilson-Robles, H. (2014). Developing T Cell Cancer Immunotherapy in the Dog with Lymphoma. *ILAR Journal*, *55*(1), 169–181. https://doi.org/10.1093/ilar/ilu020	Texas A&M Research Foundation; Wilson-Robles
02071	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. *Critical Reviews in Immunology*, *34*(5), 399–432. https://doi.org/10.1615/CritRevImmunol.2014011577	University of Minnesota; Pluhar
00323	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. *Glia*, *62*(1), 39–51. https://doi.org/10.1002/glia.22582	University of Wisconsin, Madison; Duncan
01854-A	Protopopova, A., Hall, N. J., & Wynne, C. D. L. (2014). Association between increased behavioral persistence and stereotypy in the pet dog. *Behavioural Processes*, *106*, 77–81. https://doi.org/10.1016/j.beproc.2014.04.009	University of Florida; Wynne
01311	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. *PLoS ONE*, *9*(8), e106425. https://doi.org/10.1371/journal.pone.0106425	Clemson University; Starr-Moss
01609	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. *PLoS ONE*, *9*(4), e94699. https://doi.org/10.1371/journal.pone.0094699	Iowa State University; Jergens

02091-MOU	Schoenebeck, J. J., & Ostrander, E. A. (2014). Insights into Morphology and Disease from the Dog Genome Project. *Annual Review of Cell and Developmental Biology*, *30*(1), 535–560. https://doi.org/10.1146/annurev-cellbio-100913-012927	National Human Genome Research Institute; Ostrander
01455	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. *PLoS ONE*, *9*(11), e112755. https://doi.org/10.1371/journal.pone.0112755	University of Georgia; Platt
01937-B	Sharp, C. R., & Rozanski, E. A. (2014). Cardiovascular and Systemic Effects of Gastric Dilatation and Volvulus in Dogs. *Topics in Companion Animal Medicine*, *29*(3), 67–70. https://doi.org/10.1053/j.tcam.2014.09.007	Tufts University; Rozanski
01064-A	Shoeneman, J. K., Ehrhart, E. J., Charles, J. B., & Thamm, D. H. (2014). Survivin inhibition via EZN-3042 in canine lymphoma and osteosarcoma. *Veterinary and Comparative Oncology*, *14*(2), e45–e57. https://doi.org/10.1111/vco.12104	Colorado State University; Thamm
01265	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. *Physiological Genomics*, *46*(14), 512–522. https://doi.org/10.1152/physiolgenomics.00195.2013	University of Wollongong; Sluyter
01698-A	Sysel, A. M., Valli, V. E., & Bauer, J. A. (2015). Immunohistochemical quantification of the cobalamin transport protein, cell surface receptor and Ki-67 in naturally occurring canine and feline malignant tumors and in adjacent normal tissues. *Oncotarget*, *6*(4), 2331–2348. https://doi.org/10.18632/oncotarget.3206	Bauer Research Foundation; Sysel
01131	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. *Chromosome Research*, *22*(3), 305–319. https://doi.org/10.1007/s10577-014-9406-z	University of Minnesota; Modiano
01390-A	West, L. D., & Hart, J. R. (2014). Treatment of idiopathic immune-mediated hemolytic anemia with mycophenolate mofetil in five dogs: Mycophenolate for treatment of IMHA in dogs. *Journal of Veterinary Emergency and Critical Care*, *24*(2), 226–231. https://doi.org/10.1111/vec.12121	Veterinary Specialty Hospital of San Diego; West

01424	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. *PLoS Genetics*, *10*(4), e1004257. https://doi.org/10.1371/journal.pgen.1004257	University of California, Davis; Bannasch
00821	Zeng, R., Coates, J. R., Johnson, G. C., Hansen, L., Awano, T., Kolicheski, A., … Johnson, G. S. (2014). Breed Distribution of SOD1 Alleles Previously Associated with Canine Degenerative Myelopathy. *Journal of Veterinary Internal Medicine*, *28*(2), 515–521. https://doi.org/10.1111/jvim.12317	University of Missouri, Columbia; Coates
01248	Zhao, X., Onteru, S., Saatchi, M., Garrick, D., & Rothschild, M. (2014). A genome-wide association study for canine cryptorchidism in Siberian Huskies. *Journal of Animal Breeding and Genetics*, *131*(3), 202–209. https://doi.org/10.1111/jbg.12064	Iowa State University; Rothschild