

2013 Peer-Reviewed Publications

Resulting from AKC Canine Health Foundation research grants



CHF Grant ID	APA Citation	Institution; Principal Investigator
01911-A	Andersen, N. J., Nickoloff, B. J., Dykema, K. J., Boguslawski, E. A., Krivochenitser, R. I., Froman, R. E., ... Duesbery, N. S. (2013). Pharmacologic Inhibition of MEK Signaling Prevents Growth of Canine Hemangiosarcoma. <i>Molecular Cancer Therapeutics</i> , 12(9), 1701–1714. https://doi.org/10.1158/1535-7163.MCT-12-0893	Van Andel Research Institute; Duesbery
01105	Anderson, T. C., Crawford, P. C., Dubovi, E. J., Gibbs, E. P. J., & Hernandez, J. A. (2013). Prevalence of and exposure factors for seropositivity to H3N8 canine influenza virus in dogs with influenza-like illness in the United States. <i>Journal of the American Veterinary Medical Association</i> , 242(2), 209–216. https://doi.org/10.2460/javma.242.2.209	University of Florida; Crawford
01012-A	Barrientos, L. S., Zapata, G., Crespi, J. A., Posik, D. M., Díaz, S., It, V., ... Giovambattista, G. (2013). A study of the association between chronic superficial keratitis and polymorphisms in the upstream regulatory regions of DLA-DRB1, DLA-DQB1 and DLA-DQA1. <i>Veterinary Immunology and Immunopathology</i> , 156(3–4), 205–210. https://doi.org/10.1016/j.vetimm.2013.10.009	National University of La Plata; Giovambattista
01535-A	Brons, A.-K., Henthorn, P. S., Raj, K., Fitzgerald, C. A., Liu, J., Sewell, A. C., & Giger, U. (2013). <i>SLC3A1</i> and <i>SLC7A9</i> Mutations in Autosomal Recessive or Dominant Canine Cystinuria: A New Classification System. <i>Journal of Veterinary Internal Medicine</i> , 27(6), 1400–1408. https://doi.org/10.1111/jvim.12176	University of Pennsylvania; Henthorn
01533-A	Brown, N. P., Bertocci, G. E., & Marcellin-Little, D. J. (2013). Development of a Canine Stifle Computer Model to Evaluate Cranial Cruciate Ligament Deficiency. <i>Journal of Mechanics in Medicine and Biology</i> , 13(02), 1350043. https://doi.org/10.1142/S0219519413500437	University of Louisville; Bertocci
00821	Crisp, M. J., Beckett, J., Coates, J. R., & Miller, T. M. (2013). Canine degenerative myelopathy: Biochemical characterization of superoxide dismutase 1 in the first naturally occurring non-human amyotrophic lateral sclerosis model. <i>Experimental Neurology</i> , 248, 1–9. https://doi.org/10.1016/j.expneurol.2013.05.009	University of Missouri, Columbia; Coates
01843	Culver, S., Ito, D., Borst, L., Bell, J. S., Modiano, J. F., & Breen, M. (2013). Molecular characterization of canine BCR-ABL-positive chronic myelomonocytic leukemia before and after chemotherapy. <i>Veterinary Clinical Pathology</i> , 42(3), 314–322. https://doi.org/10.1111/vcp.12055	North Carolina State University; Breen

0002254A	Frantz, A. M., Sarver, A. L., Ito, D., Phang, T. L., Karimpour-Fard, A., Scott, M. C., ... Modiano, J. F. (2013). Molecular Profiling Reveals Prognostically Significant Subtypes of Canine Lymphoma. <i>Veterinary Pathology</i> , 50(4), 693–703. https://doi.org/10.1177/0300985812465325	AMC Cancer Research Center; Modiano
01190-A	Furrow, E., Minor, K. M., Taylor, S. M., Mickelson, J. R., & Patterson, E. E. (2013). Relationship between dynamin 1 mutation status and characteristics of recurrent episodes of exercise-induced collapse in Labrador Retrievers. <i>Journal of the American Veterinary Medical Association</i> , 242(6), 786–791. https://doi.org/10.2460/javma.242.6.786	University of Minnesota; Mickelson
01674-A	Fyfe, J. C., Lynch, M., Olsen, J., & Louër, E. (2013). A thyroid peroxidase (TPO) mutation in dogs reveals a canid-specific gene structure. <i>Mammalian Genome</i> , 24(3–4), 127–133. https://doi.org/10.1007/s00335-012-9442-y	Michigan State University; Fyfe
01422	Greene, V. R., Wilson, H., Pfent, C., Roethele, J., Carwile, J., Qin, Y., ... Ellerhorst, J. A. (2013). Expression of Leptin and iNOS in Oral Melanomas in Dogs. <i>Journal of Veterinary Internal Medicine</i> , 27(5), 1278–1282. https://doi.org/10.1111/jvim.12169	University of Texas; Ellerhorst
01480	Hennebelle, J. H., Sykes, J. E., Carpenter, T. E., & Foley, J. (2013). Spatial and temporal patterns of <i>Leptospira</i> infection in dogs from northern California: 67 cases (2001–2010). <i>Journal of the American Veterinary Medical Association</i> , 242(7), 941–947. https://doi.org/10.2460/javma.242.7.941	University of California, Davis; Foley
01180-A	Jeffery, N. D., Levine, J. M., Olby, N. J., & Stein, V. M. (2013). Intervertebral Disk Degeneration in Dogs: Consequences, Diagnosis, Treatment, and Future Directions. <i>Journal of Veterinary Internal Medicine</i> , 27(6), 1318–1333. https://doi.org/10.1111/jvim.12183	Texas A&M University; Levine
00276	Jesty, S. A., Jung, S. W., Cordeiro, J. M., Gunn, T. M., Di Diego, J. M., Hemsley, S., ... Moïse, N. S. (2013). Cardiomyocyte calcium cycling in a naturally occurring German Shepherd Dog model of inherited ventricular arrhythmia and sudden cardiac death. <i>Journal of Veterinary Cardiology</i> , 15(1), 5–14. https://doi.org/10.1016/j.jvc.2012.07.005	Cornell University; Moïse
01868-A	Jia, H., & Kerr, L. L. (2013). Sustained Ibuprofen Release Using Composite Poly(Lactic-co-Glycolic Acid)/Titanium Dioxide Nanotubes from Ti Implant Surface. <i>Journal of Pharmaceutical Sciences</i> , 102(7), 2341–2348. https://doi.org/10.1002/jps.23580	Miami University; Kerr

0002254A	<p>Karlsson, E. K., Sigurdsson, S., Ivansson, E., Thomas, R., Elvers, I., Wright, J., ... Lindblad-Toh, K. (2013). Genome-wide analyses implicate 33 loci in heritable dog osteosarcoma, including regulatory variants near CDKN2A/B. <i>Genome Biology</i>, 14(12), R132. https://doi.org/10.1186/gb-2013-14-12-r132</p>	AMC Cancer Research Center; Modiano
01052-A	<p>Karyadi, D. M., Karlins, E., Decker, B., vonHoldt, B. M., Carpintero-Ramirez, G., Parker, H. G., ... Ostrander, E. A. (2013). A Copy Number Variant at the KITLG Locus Likely Confers Risk for Canine Squamous Cell Carcinoma of the Digit. <i>PLoS Genetics</i>, 9(3), e1003409. https://doi.org/10.1371/journal.pgen.1003409</p>	National Human Genome Research Institute; Ostrander
01272	<p>Koh, S., Thomas, R., Tsai, S., Bischoff, S., Lim, J.-H., Breen, M., ... Piedrahita, J. A. (2013). Growth Requirements and Chromosomal Instability of Induced Pluripotent Stem Cells Generated from Adult Canine Fibroblasts. <i>Stem Cells and Development</i>, 22(6), 951–963. https://doi.org/10.1089/scd.2012.0393</p>	North Carolina State University; Piedrahita
00580	<p>Lavrijsen, I. C. M., Heuven, H. C. M., Breur, G. J., Leegwater, P. A. J., Meutstege, F. J., & Hazewinkel, H. A. W. (2013). Phenotypic and genetic trends of patellar luxation in Dutch Flat-Coated Retrievers. <i>Animal Genetics</i>, 44(6), 736–741. https://doi.org/10.1111/age.12077</p>	University of Utrecht; Hazewinkel
00779	<p>Li, G., Davis, B. W., Raudsepp, T., Pearks Wilkerson, A. J., Mason, V. C., Ferguson-Smith, M., ... Murphy, W. J. (2013). Comparative analysis of mammalian Y chromosomes illuminates ancestral structure and lineage-specific evolution. <i>Genome Research</i>, 23(9), 1486–1495. https://doi.org/10.1101/gr.154286.112</p>	Texas A&M University; Murphy
01485	<p>Littman, M. P., Wiley, C. A., Raducha, M. G., & Henthorn, P. S. (2013). Glomerulopathy and mutations in NPHS1 and KIRREL2 in soft-coated Wheaten Terrier dogs. <i>Mammalian Genome</i>, 24(3–4), 119–126. https://doi.org/10.1007/s00335-012-9445-8</p>	University of Pennsylvania; Littman
00369-A	<p>Lunn, M. O., & Wright, S. J. (2013). Distinct subtypes of zona pellucida morphology reflect canine oocyte viability and cumulus-oocyte complex quality. <i>Theriogenology</i>, 80(5), 498–506. https://doi.org/10.1016/j.theriogenology.2013.05.013</p>	University of Dayton; Wright
00978-A	<p>Milne, M. E., Anderson, G. A., Chow, K. E., O'Brien, T. J., Moffat, B. A., & Long, S. N. (2013). Description of technique and lower reference limit for magnetic resonance imaging of hippocampal volumetry in dogs. <i>American Journal of Veterinary Research</i>, 74(2), 224–231. https://doi.org/10.2460/ajvr.74.2.224</p>	University of Pennsylvania; Long

01421	Moodley, A., Riley, M. C., Kania, S. A., & Guardabassi, L. (2013). Genome Sequence of <i>Staphylococcus pseudintermedius</i> Strain E140, an ST71 European-Associated Methicillin-Resistant Isolate. <i>Genome Announcements</i> , 1(2). https://doi.org/10.1128/genomeA.00207-12	University of Tennessee; Kania
01212-A	Morgan, B. R., Coates, J. R., Johnson, G. C., Bujnak, A. C., & Katz, M. L. (2013). Characterization of intercostal muscle pathology in canine degenerative myelopathy: A disease model for amyotrophic lateral sclerosis. <i>Journal of Neuroscience Research</i> , 91(12), 1639–1650. https://doi.org/10.1002/jnr.23287	University of Missouri, Columbia; Coates
01855-A	Prakash, N., Stumbles, P., & Mansfield, C. (2013). Initial Validation of Cytokine Measurement by ELISA in Canine Feces. <i>Open Journal of Veterinary Medicine</i> , 03(06), 282–288. https://doi.org/10.4236/ojvm.2013.36046	The University of Melbourne; Mansfield
0001268	Rimbault, M., Beale, H. C., Schoenebeck, J. J., Hoopes, B. C., Allen, J. J., Kilroy-Glynn, P., ... Ostrander, E. A. (2013). Derived variants at six genes explain nearly half of size reduction in dog breeds. <i>Genome Research</i> , 23(12), 1985–1995. https://doi.org/10.1101/gr.157339.113	Fred Hutchinson Cancer Research Center; Ostrander
0002254A	Sarver, A. L., Thayanithy, V., Scott, M. C., Cleton-Jansen, A.-M., Hogendoorn, P. C., Modiano, J. F., & Subramanian, S. (2013). MicroRNAs at the human 14q32 locus have prognostic significance in osteosarcoma. <i>Orphanet Journal of Rare Diseases</i> , 8(1), 7. https://doi.org/10.1186/1750-1172-8-7	AMC Cancer Research Center; Modiano
01131	Schappa, J. T., Frantz, A. M., Gorden, B. H., Dickerson, E. B., Vallera, D. A., & Modiano, J. F. (2013). Hemangiosarcoma and its cancer stem cell subpopulation are effectively killed by a toxin targeted through epidermal growth factor and urokinase receptors: Bispecific ligand-targeted toxins. <i>International Journal of Cancer</i> , 133(8), 1936–1944. https://doi.org/10.1002/ijc.28187	University of Minnesota; Modiano
00613	Seiser, E. L., Thomas, R., Richards, K. L., Kathryn Kelley, M., Moore, P., Suter, S. E., & Breen, M. (2013). Reading between the lines: molecular characterization of five widely used canine lymphoid tumour cell lines. <i>Veterinary and Comparative Oncology</i> , 11(1), 30–50. https://doi.org/10.1111/j.1476-5829.2011.00299.x	North Carolina State University; Breen
01490-A	Shiomitsu, K., Xia, X., Waite, K., Sehgal, I., & Li, S. (2013). Evaluation of the Aurora Kinase Inhibitor, ZM447439, in Canine Malignant Lymphoid Cells. <i>Open Journal of Veterinary Medicine</i> , 03(01), 29–38. https://doi.org/10.4236/ojvm.2013.31006	Louisiana State University; Shiomitsu

01421	<p>Solyman, S. M., Black, C. C., Duim, B., Perreten, V., van Duijkeren, E., Wagenaar, J. A., ... Kania, S. A. (2013). Multilocus Sequence Typing for Characterization of <i>Staphylococcus pseudintermedius</i>. <i>Journal of Clinical Microbiology</i>, 51(1), 306–310. https://doi.org/10.1128/JCM.02421-12</p>	University of Tennessee; Kania
01488-A	<p>Torres de la Riva, G., Hart, B. L., Farver, T. B., Oberbauer, A. M., Messam, L. L. McV., Willits, N., & Hart, L. A. (2013). Neutering Dogs: Effects on Joint Disorders and Cancers in Golden Retrievers. <i>PLoS ONE</i>, 8(2), e55937. https://doi.org/10.1371/journal.pone.0055937</p>	University of California, Davis; Hart
00934	<p>Tsai, K. L., Starr-Moss, A. N., Venkataraman, G. M., Robinson, C., Kennedy, L. J., Steiner, J. M., & Clark, L. A. (2013). Alleles of the major histocompatibility complex play a role in the pathogenesis of pancreatic acinar atrophy in dogs. <i>Immunogenetics</i>, 65(7), 501–509. https://doi.org/10.1007/s00251-013-0704-y</p>	Texas A&M University; Clark
0001285	<p>Vaden, S. L., Littman, M. P., & Cianciolo, R. E. (2013). Familial renal disease in Soft-Coated Wheaten Terriers. <i>Journal of Veterinary Emergency and Critical Care</i>, 23(2), 174–183. https://doi.org/10.1111/vec.12027</p>	North Carolina State University; Vaden
00768	<p>Valli, V. E., Kass, P. H., Myint, M. S., & Scott, F. (2013). Canine Lymphomas: Association of Classification Type, Disease Stage, Tumor Subtype, Mitotic Rate, and Treatment With Survival. <i>Veterinary Pathology</i>, 50(5), 738–748. https://doi.org/10.1177/0300985813478210</p>	University of Illinois; Valli
01601	<p>van Steenbeek, F. G., Spee, B., Penning, L. C., Kummeling, A., van Gils, I. H. M., Grinwis, G. C. M., ... Leegwater, P. A. J. (2013). Altered Subcellular Localization of Heat Shock Protein 90 Is Associated with Impaired Expression of the Aryl Hydrocarbon Receptor Pathway in Dogs. <i>PLoS ONE</i>, 8(3), e57973. https://doi.org/10.1371/journal.pone.0057973</p>	University of Utrecht; Leegwater
01601	<p>van Steenbeek, F. G., Van den Bossche, L., Grinwis, G. C. M., Kummeling, A., van Gils, I. H. M., Koerkamp, M. J. A. Groot., ... Spee, B. (2013). Aberrant Gene Expression in Dogs with Portosystemic Shunts. <i>PLoS ONE</i>, 8(2), e57662. https://doi.org/10.1371/journal.pone.0057662</p>	University of Utrecht; Leegwater
01531-A	<p>Varanat, M., Maggi, R. G., Linder, K. E., & Breitschwerdt, E. B. (2013). Infection of human brain vascular pericytes (HBVPs) by <i>Bartonella henselae</i>. <i>Medical Microbiology and Immunology</i>, 202(2), 143–151. https://doi.org/10.1007/s00430-012-0279-5</p>	North Carolina State University; Breitschwerdt

01771	Venkataraman, G. M., Geraghty, D., Fox, J., Graves, S. S., Zellmer, E., Storer, B. E., ... Storb, R. (2013). Canine DLA-79 gene: an improved typing method, identification of new alleles and its role in graft rejection and graft-versus-host disease. <i>Tissue Antigens</i> , 81(4), 204–211. https://doi.org/10.1111/tan.12094	Fred Hutchinson Cancer Research Center; Torok-Storb
00970	Volk, S. W., & Theoret, C. (2013). Translating stem cell therapies: The role of companion animals in regenerative medicine. <i>Wound Repair and Regeneration</i> , 21(3), 382–394. https://doi.org/10.1111/wrr.12044	University of Pennsylvania; Volk
00903-A	Winkler, P. A., Bartoe, J. T., Quinones, C. R., Venta, P. J., & Petersen-Jones, S. M. (2013). Exclusion of eleven candidate genes for ocular melanosis in Cairn Terriers. <i>Journal of Negative Results in BioMedicine</i> , 12(1). https://doi.org/10.1186/1477-5751-12-6	Michigan State University; Petersen-Jones
01856-A	Zhang, N., Dietrich, M. A., & Lopez, M. J. (2013). Canine Intra-Articular Multipotent Stromal Cells (MSC) From Adipose Tissue Have the Highest In Vitro Expansion Rates, Multipotentiality, and MSC Immunophenotypes: Canine Intra-Articular Multipotent Stromal Cells. <i>Veterinary Surgery</i> , 42(2), 137–146. https://doi.org/10.1111/j.1532-950X.2013.01091.x	Louisiana State University; Lopez