

2018 Peer-Reviewed Publications

Resulting from AKC Canine Health Foundation research grants



CHF Grant ID	APA Citation	Institution; Principal Investigator
02282-E	Barstow, C., Wilborn, R. R., & Johnson, A. K. (2018). Breeding Soundness Examination of the Bitch. <i>Veterinary Clinics of North America: Small Animal Practice</i> , 48(4), 547–566. https://doi.org/10.1016/j.cvsm.2018.02.004	Auburn University; Wilborn
01746-A	Bauer, A., Jagannathan, V., Högl, S., Richter, B., McEwan, N. A., Thomas, A., ... Leeb, T. (2018). MKLN1 splicing defect in dogs with lethal acrodermatitis. <i>PLOS Genetics</i> , 14(3), e1007264. https://doi.org/10.1371/journal.pgen.1007264	University of Pennsylvania; Casal
02252	Berk, B. A., Packer, R. M. A., Law, T. H., & Volk, H. A. (2018). Investigating owner use of dietary supplements in dogs with idiopathic epilepsy. <i>Research in Veterinary Science</i> , 119, 276–284. https://doi.org/10.1016/j.rvsc.2018.07.004	Royal Veterinary College, University of London; Volk
01898-A	Cunningham, S. M., Aona, B. D., Antoon, K., Rush, J. E., & Barton, B. A. (2018). Echocardiographic assessment of right ventricular systolic function in Boxers with arrhythmogenic right ventricular cardiomyopathy. <i>Journal of Veterinary Cardiology</i> , 20(5), 343–353. https://doi.org/10.1016/j.jvc.2018.07.005	Tufts University; Cunningham
02078	Diaz-Rodriguez, P., Erndt-Marino, J. D., Gharat, T., Pinto, D. J. M., Samavedi, S., Bearden, R., ... Hahn, M. S. (2018). Toward zonally tailored scaffolds for osteochondral differentiation of synovial mesenchymal stem cells. <i>Journal of Biomedical Materials Research Part B: Applied Biomaterials</i> , 1-11. https://doi.org/10.1002/jbm.b.34293	Texas A&M AgriLife Research; Saunders
01826	Freeman, A. C., Platt, S. R., Holmes, S., Kent, M., Robinson, K., Howerth, E., ... Hadjipanayis, C. G. (2018). Convection-enhanced delivery of cetuximab conjugated iron-oxide nanoparticles for treatment of spontaneous canine intracranial gliomas. <i>Journal of Neuro-Oncology</i> , 137(3), 653–663. https://doi.org/10.1007/s11060-018-2764-1	University of Georgia; Platt
02078	Gharat, T. P., Diaz-Rodriguez, P., Erndt-Marino, J. D., Jimenez Vergara, A. C., Munoz Pinto, D. J., Bearden, R. N., ... Hahn, M. S. (2018). A canine in vitro model for evaluation of marrow-derived mesenchymal stromal cell-based bone scaffolds. <i>Journal of Biomedical Materials Research Part A</i> , 106(9), 2382–2393. https://doi.org/10.1002/jbm.a.36430	Texas A&M AgriLife Research; Saunders

01986	Gookin, J. L., Mathews, K. G., Cullen, J., & Seiler, G. (2018). Qualitative metabolomics profiling of serum and bile from dogs with gallbladder mucocele formation. <i>PLOS ONE</i> , 13(1), e0191076. https://doi.org/10.1371/journal.pone.0191076	North Carolina State University; Gookin
0002336	Hare, E., Kelsey, K. M., Serpell, J. A., & Otto, C. M. (2018). Behavior Differences Between Search-and-Rescue and Pet Dogs. <i>Frontiers in Veterinary Science</i> , 5. https://doi.org/10.3389/fvets.2018.00118	University of Pennsylvania; Otto
02175-A	Hensel, M. E., Negron, M., & Arenas-Gamboa, A. M. (2018). Brucellosis in Dogs and Public Health Risk. <i>Emerging Infectious Diseases</i> , 24(8), 1401–1406. https://doi.org/10.3201/eid2408.171171	Texas A&M AgriLife Research; Arenas
01658	Hokamp, J. A., Leidy, S. A., Gaynanova, I., Cianciolo, R. E., & Nability, M. B. (2018). Correlation of electrophoretic urine protein banding patterns with severity of renal damage in dogs with proteinuric chronic kidney disease. <i>Veterinary Clinical Pathology</i> , 47(3), 425–434. https://doi.org/10.1111/vcp.12648	Texas A&M AgriLife Research; Nability
01771	Hullar, M. A. J., Lampe, J. W., Torok-Storb, B. J., & Harkey, M. A. (2018). The canine gut microbiome is associated with higher risk of gastric dilatation-volvulus and high risk genetic variants of the immune system. <i>PLOS ONE</i> , 13(6), e0197686. https://doi.org/10.1371/journal.pone.0197686	Fred Hutchinson Cancer Research Center; Torok-Storb
00422	Kim, J.-H., Frantz, A. M., Sarver, A. L., Gorden Klukas, B. H., Lewellen, M., O'Brien, T. D., ... Modiano, J. F. (2018). Modulation of fatty acid metabolism and immune suppression are features of in vitro tumour sphere formation in ontogenetically distinct dog cancers. <i>Veterinary and Comparative Oncology</i> , 16(1), E176–E184. https://doi.org/10.1111/vco.12368	University of Minnesota; O'Brien
01859-A	Kurosawa, T. A., Sist, M. D., & Sanders, R. A. (2018). Echocardiographic variables in healthy North American Salukis. <i>Journal of Veterinary Cardiology</i> , 20(5), 301–306. https://doi.org/10.1016/j.jvc.2018.07.003	Michigan State University; Sanders
01995	MacLean, E. L., & Hare, B. (2018). Enhanced Selection of Assistance and Explosive Detection Dogs Using Cognitive Measures. <i>Frontiers in Veterinary Science</i> , 5. https://doi.org/10.3389/fvets.2018.00236	Duke University; MacLean

02052	Makielski, K. M., Brooks, M. B., Wang, C., Cullen, J. N., O'Connor, A. M., & LeVine, D. N. (2018). Development and implementation of a novel immune thrombocytopenia bleeding score for dogs. <i>Journal of Veterinary Internal Medicine</i> , 32(3), 1041–1050. https://doi.org/10.1111/jvim.15089	Iowa State University; LeVine
01584	Mostafa, A. A., Cunningham, D. P., Boudrieau, R. J., Kowaleski, M. P., & Griffon, D. J. (2018). Influence of radiographic techniques on the measurement of femoral anteversion angles and a conformation score of pelvic limbs in Labrador Retrievers. <i>Veterinary Surgery</i> , 47(3), 421–430. https://doi.org/10.1111/vsu.12782	Western University of Health Sciences; Griffon
02315-A	Nemec, P. S., Kapatoss, A., Holmes, J. C., & Hess, P. R. (2018). The prevalent Boxer MHC class Ia allotype dog leukocyte antigen (DLA)-88*034:01 preferentially binds nonamer peptides with a defined motif. <i>HLA</i> , 92(6), 403–407. https://doi.org/10.1111/tan.13398	North Carolina State University; Hess
02287	Neupane, P., Hegarty, B. C., Marr, H. S., Maggi, R. G., Birkenheuer, A. J., & Breitschwerdt, E. B. (2018). Evaluation of cell culture-grown <i>Bartonella</i> antigens in immunofluorescent antibody assays for the serological diagnosis of bartonellosis in dogs. <i>Journal of Veterinary Internal Medicine</i> . https://doi.org/10.1111/jvim.15301	North Carolina State University; Breitschwerdt
01609	Otoni, C. C., Heilmann, R. M., García-Sancho, M., Sainz, A., Ackermann, M. R., Suchodolski, J. S., ... Jergens, A. E. (2018). Serologic and fecal markers to predict response to induction therapy in dogs with idiopathic inflammatory bowel disease. <i>Journal of Veterinary Internal Medicine</i> , 32(3), 999–1008. https://doi.org/10.1111/jvim.15123	Iowa State University; Jergens
02138	Pijnacker, T., Kooistra, H. S., Vermeulen, C. F., van der Vinne, M., Prins, M., Galac, S., & Mol, J. A. (2018). Use of basal and TRH-stimulated plasma growth hormone concentrations to differentiate between primary hypothyroidism and nonthyroidal illness in dogs. <i>Journal of Veterinary Internal Medicine</i> , 32(4), 1319–1324. https://doi.org/10.1111/jvim.15139	University of Utrecht; Mol
02325-E	Reinhart, J. M., Ekena, J., Cioffi, A. C., & Trepanier, L. A. (2018). A single-nucleotide polymorphism in the canine cytochrome b5 reductase (CYB5R3) gene is associated with sulfonamide hypersensitivity and is overrepresented in Doberman Pinschers. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 41(3), 402–408. https://doi.org/10.1111/jvp.12478	University of Wisconsin, Madison; Trepanier
02353-A	Ruel, H. L., Watanabe, R., Evangelista, M. C., Beauchamp, G., & Steagall, P. V. (2018). Feasibility and reliability of electrical, mechanical and thermal nociceptive testing and assessment of diffuse noxious inhibitory control in dogs. <i>Journal of Pain Research</i> , 11, 2491–2496. https://doi.org/10.2147/JPR.S164483	University of Montreal; Steagall

00822	Sakthikumar, S., Elvers, I., Kim, J., Arendt, M. L., Thomas, R., Turner-Maier, J., ... Lindblad-Toh, K. (2018). SETD2 is recurrently mutated in whole-exome sequenced canine osteosarcoma. <i>Cancer Research</i> , canres.3558.2017. https://doi.org/10.1158/0008-5472.CAN-17-3558	Canine Comparative Oncology and Genomics Consortium, Inc; Breen
01762	Sample, S. J., Racette, M. A., Hans, E. C., Volstad, N. J., Schaefer, S. L., Bleedorn, J. A., ... Muir, P. (2018). Use of a platelet-rich plasma-collagen scaffold as a bioenhanced repair treatment for management of partial cruciate ligament rupture in dogs. <i>PLOS ONE</i> , 13(6), e0197204. https://doi.org/10.1371/journal.pone.0197204	University of Wisconsin, Madison; Muir
02011	Sanders, K., Mol, J. A., Slob, A., Kooistra, H. S., & Galac, S. (2018). Steroidogenic factor-1 inverse agonists as a treatment option for canine hypercortisolism: in vitro study. <i>Domestic Animal Endocrinology</i> , 63, 23–30. https://doi.org/10.1016/j.domaniend.2017.11.001	University of Utrecht; Galac
02011	Sanders, R. A., Kurosawa, T. A., & Sist, M. D. (2018). Ambulatory electrocardiographic evaluation of the occurrence of arrhythmias in healthy Salukis. <i>Journal of the American Veterinary Medical Association</i> , 252(8), 966–969. https://doi.org/10.2460/javma.252.8.966	University of Utrecht; Galac
02204	Selmic, L. E., Samuelson, J., Reagan, J. K., Mesa, K. J., Driskell, E., Li, J., ... Boppart, S. A. (2018). Intra-operative imaging of surgical margins of canine soft tissue sarcoma using optical coherence tomography. <i>Veterinary and Comparative Oncology</i> , 17(1), 80–88. https://doi.org/10.1111/vco.12448	The Ohio State University; Selmic
02243-A	Shull, O. R., Reilly, C. M., Davis, L. B., Murphy, C. J., & Thomasy, S. M. (2018). Phenotypic Characterization of Corneal Endothelial Dystrophy in German Shorthaired and Wirehaired Pointers Using In Vivo Advanced Corneal Imaging and Histopathology: <i>Cornea</i> , 37(1), 88–94. https://doi.org/10.1097/ICO.0000000000001431	University of California, Davis; Thomasy
02231-A	Sikina, E. R., Bach, J. F., Lin, Z., Gehring, R., & KuKanich, B. (2018). Bioavailability of suppository acetaminophen in healthy and hospitalized ill dogs. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 41(5), 652–658. https://doi.org/10.1111/jvp.12664	University of Wisconsin, Madison; Bach
02162-MOU	Sparks, C. R., Gorney, A., Williams, K., Griffith, E. H., Cerda-Gonzalez, S., Lascelles, B. D. X., & Olby, N. J. (2018). Investigation of sensory thresholds in Cavalier King Charles Spaniels with and without Chiari-like malformations and syringomyelia. <i>Journal of Veterinary Internal Medicine</i> , 32(6), 2021–2028. https://doi.org/10.1111/jvim.15297	North Carolina State University; Olby

2013 Clinician-Scientist Fellowship Program	Strohm, L. E., Visser, L. C., Chapel, E. H., Drost, W. T., & Bonagura, J. D. (2018). Two-dimensional, long-axis echocardiographic ratios for assessment of left atrial and ventricular size in dogs. <i>Journal of Veterinary Cardiology</i> , 20(5), 330–342. https://doi.org/10.1016/j.jvc.2018.07.008	The Ohio State University; Visser
02171-MOU	Takada, M., Hix, J. M. L., Corner, S., Schall, P. Z., Kiupel, M., & Yuzbasiyan-Gurkan, V. (2018). Targeting MEK in a translational model of histiocytic sarcoma. <i>Molecular Cancer Therapeutics</i> , 17(11). https://doi.org/10.1158/1535-7163.MCT-17-1273	Michigan State University; Yuzbasiyan-Gurkan
01421	Videla, R., Solyman, S. M., Brahmabhatt, A., Sadeghi, L., Bemis, D. A., & Kania, S. A. (2018). Clonal Complexes and Antimicrobial Susceptibility Profiles of <i>Staphylococcus pseudintermedius</i> Isolates from Dogs in the United States. <i>Microbial Drug Resistance</i> , 24(1), 83–88. https://doi.org/10.1089/mdr.2016.0250	University of Tennessee; Kania
01849	Wang, J., Wang, T., Bishop, M. A., Edwards, J. F., Yin, H., Dalton, S., ... Zhao, S. (2018). Collaborating genomic, transcriptomic and microbiomic alterations lead to canine extreme intestinal polyposis. <i>Oncotarget</i> , 9(49). https://doi.org/10.18632/oncotarget.25646	University of Georgia Research Foundation, Inc; Zhao
02455-A	Wang, J., Wang, T., Sun, Y., Feng, Y., Kisseberth, W. C., Henry, C. J., ... Zhao, S. (2018). Proliferative and Invasive Colorectal Tumors in Pet Dogs Provide Unique Insights into Human Colorectal Cancer. <i>Cancers</i> , 10(9), 330. https://doi.org/10.3390/cancers10090330	University of Georgia; Zhao
01426	Weishaar, K. M., Ehrhart, E. J., Avery, A. C., Charles, J. B., Elmslie, R. E., Vail, D. M., ... Thamm, D. H. (2018). c-Kit Mutation and Localization Status as Response Predictors in Mast Cell Tumors in Dogs Treated with Prednisone and Toceranib or Vinblastine. <i>Journal of Veterinary Internal Medicine</i> , 32(1), 394–405. https://doi.org/10.1111/jvim.14889	Colorado State University; Thamm
02248	Wielander, F., James, F. M. K., Cortez, M. A., Kluger, G., Neßler, J. N., Tipold, A., ... Fischer, A. (2018). Absence Seizures as a Feature of Juvenile Myoclonic Epilepsy in Rhodesian Ridgeback Dogs. <i>Journal of Veterinary Internal Medicine</i> , 32(1), 428–432. https://doi.org/10.1111/jvim.14892	The Folkhälsan Institute of Genetics; Lohi
2527-E Clinician-Scientist Program	Withers, S. S., Skorupski, K. A., York, D., Choi, J. W., Woolard, K. D., Laufer-Amorim, R., ... Rebhun, R. B. (2018). Association of macrophage and lymphocyte infiltration with outcome in canine osteosarcoma. <i>Veterinary and Comparative Oncology</i> , 17(1), 49–60. https://doi.org/10.1111/vco.12444	University of California, Davis; Withers

**2527-E
Clinician-
Scientist
Program**

Withers, S. S., York, D., Johnson, E., Al-Nadaf, S., Skorupski, K. A., Rodriguez, C. O., ... Rebhun, R. B. (2018). In vitro and in vivo activity of liposome-encapsulated curcumin for naturally occurring canine cancers. *Veterinary and Comparative Oncology*, 16(4), 571–579.
<https://doi.org/10.1111/vco.12424>

University of California,
Davis; Withers

02455-A

Zhang, M., Liu, D., Tang, J., Feng, Y., Wang, T., Dobbin, K. K., ... Zhao, S. (2018). SEG - A Software Program for Finding Somatic Copy Number Alterations in Whole Genome Sequencing Data of Cancer. *Computational and Structural Biotechnology Journal*, 16, 335–341.
<https://doi.org/10.1016/j.csbj.2018.09.001>

University of Georgia;
Zhao

01602

Zimmerman, K. L., Panciera, D. L., Hoeschele, I., Monroe, W. E., Todd, S. M., Werre, S. R., ... Lake, B. B. (2018). Adrenocortical Challenge Response and Genomic Analyses in Scottish Terriers with Increased Alkaline Phosphate Activity. *Frontiers in Veterinary Science*, 5.
<https://doi.org/10.3389/fvets.2018.00231>

Virginia-Maryland
Regional College of
Veterinary Medicine;
Zimmerman