

Publications

1. Flores RS, **Boudreaux MK**, Vasquez B, Bristow P, Aronson LR, Santoro-Beer K, Callan MB. Heterozygosity for P2Y₁₂ receptor gene mutation associated with postoperative hemorrhage in a Greater Swiss Mountain dog. *Vet Clin Pathol.* 46(4):569-574, 2017.
2. **Boudreaux MK**, Barnes SM. Comparison of the activation peptide regions of protease-activated receptors (PAR) in members of the Family Felidae. *Vet Clin Pathol.* 45(3):400-5, 2016.
3. Christopherson PW, Alexander EA, King KB, **Boudreaux MK**. Basset Hound thrombopathia in a 4-month-old female Ba-Shar (Sharp Asset). *Vet Clin Pathol.* 45(2):229-231, 2016.
4. Hayakawa S, Spangler EA, Christopherson PW, **Boudreaux MK**. A novel form of macrothrombocytopenia in Akita dogs. *Vet Clin Pathol.* 45(1):103-5, 2016.
5. Norton EM, Wooldridge AA, Stewart AJ, Cusimano L, Schwartz DD, Johnson CM, **Boudreaux MK**, Christopherson PW. Abnormal coagulation factor VIII transcript in a Tennessee Walking Horse colt with hemophilia A. *Vet Clin Pathol.* 45(1):96-102, 2016.
6. Haysom LZ, Kennerly RM, Müller RD, Smith-Carr S, Christopherson PW, **Boudreaux MK**. Identification and Characterization of Glanzmann Thrombasthenia in 2 Closely Related Mixed-breed Dogs. *J Vet Intern Med.* 30(2):642-6, 2016.
7. **Boudreaux MK**, Christopherson PW, Blair C. Comparison of the gene encoding, and the predicted amino acid composition of, platelet membrane receptor subunit glycoprotein Iba in members of the family Felidae. *Vet Clin Pathol.* 45(1):73-86, 2016.
8. **Boudreaux MK**, Koehler J, Habecker PL, Del Piero F. Evaluation of the genes encoding CD39/NTPDase-1 and CD39L1/NTPDase-2 in horses with and without abnormal hemorrhage and in horses with pathologic evidence of exercise-induced pulmonary hemorrhage. *Vet Clin Pathol.* 44(4):617-25, 2015.
9. Gelain ME1, Bertazzolo W, Tutino G, Pogliani E, Cian F, **Boudreaux MK**. A novel point mutation in the β 1-tubulin gene in asymptomatic macrothrombocytopenic Norfolk and Cairn Terriers. *Vet Clin Pathol.* 43(3):317-21, 2014.
10. Christopherson PW, Bacek LM, King KB, **Boudreaux MK**. Two novel missense mutations associated with hemophilia A in a family of Boxers, and a German Shepherd dog. *Vet Clin Pathol.* 43(3):312-6, 2014.
11. **Boudreaux MK**, Humphries DM. Identification of potential platelet alloantigens in the Equidae family by comparison of gene sequences encoding major platelet membrane glycoproteins. *Vet Clin Pathol.* 42(4):437-42, 2013.

12. Zimmerman KL, McMillan K, Monroe WE, Sponenberg DP, Evans N, Makris M, Hammond SH, Kanevsky Mullarky I, **Boudreaux MK**. J Vet Diag Invest. 25(2):291-6, 2013. Leukocyte adhesion deficiency type I in a mixed-breed dog.
13. **Boudreaux MK**. Inherited Platelet Disorders. Invited State of the Art Review. Journal of Veterinary Emergency and Critical Care, 22(1):1-12, 2012. Guest Editor-In-Chief for this Special Edition on Platelets.
14. **Boudreaux MK**. Unraveling the wonders of platelets. Invited Guest Editorial. Journal of Veterinary Emergency and Critical Care, 22(1):2012.
15. **Boudreaux MK**. J Vet Emerg Crit Care (San Antonio). Inherited Platelet Disorders. 22(1):30-41, 2012.
16. Christopherson PW, Spangler EA, **Boudreaux MK**. Evaluation and Clinical Application of Platelet Function Testing in Small Animal Practice. Veterinary Clinics of North America Small Animal Practice. 42(1):173-188, 2012. Invited Review
17. Puetz J, **Boudreaux MK**. Evaluation of the gene encoding calcium and diacylglycerol regulated guanine nucleotide exchange factor I (CalDAG-GEFI) in human patients with congenital qualitative platelet disorders. Platelets 23(5):401-3, 2012.
18. Fang J, Jensen E, **Boudreaux M**, Du L, Hawkins T, Koukouritaki S, Cometta K, Wilcox D. Platelet gene therapy improves hemostatic function for integrin $\alpha\text{IIb}\beta\text{3}$ deficient dogs. Proc Natl Acad Sci U S A. 108(23):9583-8, 2011.
19. **Boudreaux MK**, Martin M. P2Y₁₂ receptor gene mutation associated with postoperative hemorrhage in a Greater Swiss Mountain dog. Vet Clin Pathol 40(2):202-6, 2011.
20. **Boudreaux MK**, Osborne C, Herre A, Ramos Rivera E, Spangler E. Unique structure of the M loop region of beta1-tubulin may contribute to size variability of platelets in the Family Felidae. Vet Clin Pathol 39(4):417-423, 2010.
21. **Boudreaux MK**, Wardrop KJ, Kiklevich V, Felsburg P, Snekvik K: A mutation in the canine kindlin-3 gene associated with increased bleeding risk and susceptibility to infections. Thromb Haemost 103(2):475-477, 2010.
22. **Boudreaux MK**. Characteristics, diagnosis, and treatment of inherited platelet disorders in mammals. J Am Vet Med Assoc. 233(8):1251-9, 2008.
23. Davis B, Toivio-Kinnucan M, Schuller S, **Boudreaux MK**. Mutation in beta1-tubulin correlates with macrothrombocytopenia in Cavalier King Charles Spaniels. J Vet Int Med 22:540-545, 2008.
24. **Boudreaux MK**, Schmutz S, French PS. Calcium diacylglycerol guanine nucleotide exchange factor I (CalDAG-GEFI) gene mutations in a thrombopathic Simmental calf. Vet Pathol 44(6):932-935, 2007.

25. **Boudreaux MK**, Catalfamo JL, Klok M. Calcium Diacylglycerol Guanine Nucleotide Exchange Factor I gene mutations associated with loss of function in canine platelets. *Translational Research* 150:81-92, 2007.
26. Christopherson PW, van Santen VL, Livesey L, **Boudreaux MK**. A 10-base-pair deletion in the gene encoding platelet glycoprotein IIb associated with Glanzmann Thrombasthenia in a horse. *J Vet Intern Med* 21(1):196-198, 2007.
27. Christopherson PW, Insalaco TA, van Santen VL, Livesey L, Bourne C, **Boudreaux MK**. Characterization of the cDNA encoding alpha IIb and beta 3 in normal horses and two horses with Glanzmann thrombasthenia. *Vet Pathol*, 43:78-82, 2006.
28. Livesey L, Christopherson P, Hammond A, Perkins J, Toivio-Kinnucan M, Insalaco T, **Boudreaux MK**. Platelet dysfunction (Glanzmann's thrombasthenia) in horses. *J Vet Intern Med*. 19(6):917-9, 2005.
29. Goree M, Catalfamo JL, Aber S, **Boudreaux MK**. Characterization of the mutations causing Hemophilia B in two domestic cats. *J Vet Intern Med*, 19:200-204, 2005.
30. Brdecka D, Adin C, **Boudreaux MK**, Crawford C, Randall S. Successful ovariectomy in a dog with Glanzmann Thrombasthenia. *JAVMA*, 224(11):1796-1798, 2004.
31. Niemeyer GP, **Boudreaux MK**, Goodman-Martin SA, Monroe CM, Wilcox DA, Lothrop CD Jr. Correction of a large animal model of type I Glanzmann's thrombasthenia by nonmyeloblastic bone marrow transplantation. *Experimental Hematology* 12:1357-1362, 2003.
32. **Boudreaux MK**. Platelets – Past, Present, and Future. *Vet Clin Pathol* 30(3):103, 2001. Guest Editorial.
33. Lipscomb DL, Bourne C, **Boudreaux MK**. Nucleotide sequence of the canine alpha IIb gene from platelet-derived cDNA. *Am J Vet Res* 62(9):1486-1492, 2001.
34. **Boudreaux MK**, Catalfamo JL. Molecular and genetic basis for thrombasthenic thrombopathia in Otterhounds. *Am J Vet Res* 62(11):1797-1804, 2001.
35. **Boudreaux MK**, Lipscomb DL. Clinical, Biochemical, and Molecular Aspects of Glanzmann's Thrombasthenia in humans and dogs. *Vet Pathol* 38(3):249-260, 2001.
36. Lipscomb DL, Bourne C, **Boudreaux MK**. Two genetic defects in alphaIIb are associated with type I Glanzmann's thrombasthenia in a Great Pyrenees dog: a 14-base insertion in exon 13 and a splicing defect of intron 13. *Vet Pathol*. 37(6):581-8, 2000.
37. Lipscomb DL, Bourne C, **Boudreaux MK**. DNA sequence of the canine platelet $\beta 3$ gene from cDNA: Comparison of canine and mouse $\beta 3$ to segments that encode alloantigenic sites and functional domains of $\beta 3$ in human beings. *J Lab Clin Med* 134:313-321, 1999.
38. **Boudreaux MK**, Lipscomb DL, Catalfamo JL. Novel mutations within calcium binding domains of canine platelet GPIIb cause Type I Glanzmann's thrombasthenia. *Blood*, 94(10) Supplement 1 (Part 2): 77b, 1999 (abstract).

39. Lipscomb D, **Boudreaux M**, Bourne C. Comparison of the alpha IIb nucleotide sequence from platelet cDNA of thrombasthenic and normal dogs. *Vet Pathol* 36(5):482, 1999 (abstract).
40. **Boudreaux MK**, Catalfamo JL. Evaluation of the genes encoding for GP complex IIb-IIIa in Otterhounds with thrombasthenic thrombopathia. *Vet Pathol* 36(5):483, 1999 (abstract).
41. Lipscomb DL, **Boudreaux MK**, Paxton R, Spano J, Welles EG, Schumacher J. Identification of thrombospondin as a high molecular mass protein released from activated equine platelets. *Am J Vet Res.* 58(9):954-60, 1997.
42. **Boudreaux MK**, Reinhart GA, Vaughn DM, Spano JS, Mooney M. The effects of varying dietary n-6 to n-3 fatty acid ratios on platelet reactivity, coagulation screening assays, and antithrombin III activity in dogs. *J Am Anim Hosp Assoc.* 33(3):235-43, 1997.
43. **Boudreaux MK**, Ebbe S. Evaluation of ploidy of mature canine megakaryocytes, using Feulgen staining and microspectrophotometry. *Am J Vet Res.* 57(10):1434-7, 1996.
44. **Boudreaux MK**, Kvam K, Dillon AR, Bourne C, Scott M, Schwartz KA, Toivio-Kinnucan M. Type I Glanzmann's thrombasthenia in a Great Pyrenees dog. *Vet Pathol* 33:503-511, 1996.
45. **Boudreaux MK**, Panangala VS, Bourne C. A platelet activation-specific monoclonal antibody that recognizes a receptor-induced binding site on canine fibrinogen. *Vet Pathol* 33:419-427, 1996.
46. **Boudreaux MK**: Platelets and Coagulation: An update. *Vet Clin North America Small Animal Practice* 26(5):1065-1087, 1996.
47. **Boudreaux MK**, Crager C, Dillon AR, Stanz K, Toivio-Kinnucan M. Identification of an intrinsic platelet function defect in Spitz dogs. *J Vet Int Med* 8:93-98, 1994.
48. Welles EG, Bourne C, Tyler JW, **Boudreaux MK**. Detection of activated feline platelets in platelet-rich plasma by use of fluorescein-labeled antibodies and flow cytometry. *Vet Pathol.* 1994 Sep;31(5):553-60, 1994.
49. Welles EG, **Boudreaux MK**, Crager CS, Tyler JW. Platelet function and antithrombin, plasminogen, and fibrinolytic activities in cats with heart disease. *Am J Vet Res.* 55(5):619-27, 1994.
50. Weiss RC, Cox NR, **Boudreaux MK**. Toxicologic effects of ribavirin in cats. *J Vet Pharmacol Ther.* 16(3):301-16, 1993.
51. Welles EG, **Boudreaux MK**, Tyler JW. Platelet, antithrombin, and fibrinolytic activities in taurine-deficient and taurine-replete cats. *Am J Vet Res.* 54(8):1235-43, 1993.
52. **Boudreaux MK**, Jeffers C, Lipscomb D, Spano JS. The effect of ticlopidine on canine platelets, fibrinogen, and antithrombin III activity. *J Vet Pharmacol Ther.* 15(1):1-9, 1992.

53. **Boudreaux MK**, Dillon AR, Sartin EA, Ravis WR, Spano JS. Effects of treatment with ticlopidine in heartworm-negative, heartworm-infected, and embolized heartworm-infected dogs. *Am J Vet Res.* 52(12):2000-6, 1991.
54. **Boudreaux MK**, Dillon AR, Ravis WR, Sartin EA, Spano JS. Effects of treatment with aspirin or aspirin/dipyridamole combination in heartworm-negative, heartworm-infected, and embolized heartworm-infected dogs. *Am J Vet Res.* 52(12):1992-9, 1991.
55. **Boudreaux MK**, Dillon AR. *Am J Vet Res.* Platelet function, antithrombin-III activity, and fibrinogen concentration in heartworm-infected and heartworm-negative dogs treated with thiacetarsamide. 52(12):1986-91, 1991.
56. **Boudreaux MK**, Zerbe CA. The effect of ticlopidine on canine platelet number, mean platelet volume, and megakaryocyte size. *Vet Clin Pathol.* 20(2):56-59, 1991.
57. **Boudreaux MK**, Weiss RC, Toivio-Kinnucan M, Cox N, Spano JS. Enhanced platelet reactivity in cats experimentally infected with feline infectious peritonitis virus. *Vet Pathol.* 27(4):269-73, 1990.
58. **Boudreaux MK**, Weiss RC, Toivio-Kinnucan M, Spano JS. Potentiation of platelet responses in vitro by feline infectious peritonitis virus. *Vet Pathol.* 27(4):261-8, 1990.
59. **Boudreaux MK**, Weiss RC, Cox N, Spano JS. Evaluation of antithrombin-III activity as a coindicator of disseminated intravascular coagulation in cats with induced feline infectious peritonitis virus infection. *Am J Vet Res.* 50(11):1910-3, 1989.
60. **Boudreaux MK**, Dillon AR, Spano JS. Enhanced platelet reactivity in heartworm-infected dogs. *Am J Vet Res.* 50(9):1544-7, 1989.
61. Wagner-Mann CC, Hanks G, Purohit RC, Harrison I, Pablo L, **Boudreaux MK**, Boosinger TR, Conti J. The pony as an animal model for vascular implants. *J Invest Surg.* 2(1):75-84, 1989.
62. Dillon AR, **Boudreaux MK**. Combined factors IX and XII deficiencies in a family of cats. *J Am Vet Med Assoc.* 193(7):833-4, 1988.
63. **Boudreaux MK**, Wagner-Mann C, Purohit R, Hanks G, Spano J, Pablo L, Lee S, Conti J. Platelet function testing in the pony. *Lab Anim Sci.* 38(4):448-51, 1988.
64. **Boudreaux MK**, Dillon AR. The Effect of Danazol Treatment on Factor IX Deficiency in Cats. *Vet Clin Pathol.* 17(4):84-5, 1988.
65. **Boudreaux MK**, Dodds WJ, Slauson DO, Catalfamo JL. Evidence for regulatory control of canine platelet phosphodiesterase. *Biochem Biophys Res Commun.* 140(2):589-94, 1986.

66. **Boudreaux MK**, Dodds WJ, Slauson DO, Catalfamo JL. Impaired cAMP metabolism associated with abnormal function of thrombopathic canine platelets. *Biochem Biophys Res Commun.* 140(2):595-601, 1986.

67. **Boudreaux MK**, Blue JT, Durham SK, Vivrette SL. Intravascular leukostasis in a horse with myelomonocytic leukemia. *Vet Pathol.* 21(5):544-6, 1984.

68. Hribernik TN, Barta O, Gaunt SD, **Boudreaux MK**. Serum hyperviscosity syndrome associated with IgG myeloma in a cat. *J Am Vet Med Assoc.* 181(2):169-70, 1982.