



Kate Meurs



Associate Dean of Research

BS Zoology: University of Wisconsin - Madison

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Companion Animal models of Cardiac Disease & Genetic Disorders

Research emphasis:

Dr. Meurs' research focus is on the identification of mutations, mechanisms of mutation development, and pharmacogenomics of cardiac diseases. She is particularly interested in identifying genetic susceptibility for cardiac disorders. She has identified a number of mutations responsible for cardiomyopathy and subvalvular aortic stenosis in certain breeds of dogs and cats that have been developed into diagnostic tests.

Application :

- Genetics of acquired cardiac disease
- Genetics of familial cardiac disorders

Collaboration potential:

- Genetic mutation discovery
- Naturally occurring cardiac disease models
- Drug development & response

Selected publications:

Reina-Doreste Y, Stern JA, Keene BW, Tou SP, Atkins CE, DeFrancesco TC, Ames MK, Hodge TE, **Meurs KM**. (2014) Case-control study of the effects of pimobendan on survival time in cats with hypertrophic cardiomyopathy and congestive heart failure. *J Am Vet Med Assoc*. 2014 Sep 1; 245(5):534-9.

Meurs KM, Stern JA, Reina-Doreste Y, Spier AW, Koplitz SL, Baumwart RD. (2014) Natural history of arrhythmogenic right ventricular cardiomyopathy in the boxer dog: a prospective study. *J Vet Intern Med*. 2014 Jul-Aug;28(4):1214-20.

Stern JA, White SN, Lehmkuhl LB, Reina-Doreste Y, Ferguson JL, Nascone-Yoder NM, **Meurs KM**. (2014) A single codon insertion in PICALM is associated with development of familial subvalvular aortic stenosis in Newfoundland dogs. *Hum Genet*. 2014 Sep; 133(9):1139-48.

Stern JA, Reina-Doreste Y, Chdid L, **Meurs KM**. (2014) Identification of PDE5A:E90K: a polymorphism in the canine phosphodiesterase 5A