



AMERICAN KENNEL CLUB  
**CANINE HEALTH FOUNDATION**

November 20, 2007

Liz Wertz  
Rottweiler Health Foundation  
PO Box 391  
Chesterland, OH 44026-0391

Re: Grant Number 632: MicroRNAs and Canine Lymphoma  
Principal Investigator: William C Kisseberth, DVM, PhD

Dear Ms. Wertz:

We are pleased to forward to you the next progress report for the above referenced grant, which your organization has co-sponsored.

This progress report has been reviewed and approved. If you have any questions regarding the progress of this research please feel free to contact me by phoning toll free at 888-682-9696 or emailing [eaw@akcchf.org](mailto:eaw@akcchf.org).

We extend our thanks and appreciation to you and your club members for your support of canine health.

Sincerely,

Erika Werne  
Director of Canine Research & Education

Enclosures

# AKC Canine Health Foundation

## REVIEW OF SCIENTIFIC PROGRESS

**Grant No.:** 632                      **Date Report Received:**      **October 1, 2007**  
**Title of Grant:**              MicroRNAs and Canine Lymphoma  
**Amount Granted:** \$98,766.00      **Amount Paid:** \$79,012.00      **Amount Owed:** \$19,754.00  
**Principal Investigator:** William C Kisseberth, DVM, PhD  
**Research Institution:** Ohio State University  
**Start Date:**      10/1/2005  
**Length of Grant:** 2                      **Progress Report:**      Year End 2  
**Date of Review:**      10/30/07                      **Recommended for Approval:** yes

**Performance Summary:** it is difficult to assess; the letter submitted was for NCE; in that letter, however, he does state that the array is completed but aim 2 still seems a bit in limbo; work will still take one more year to complete and they hope to submit a ms by mid 2008; we should go ahead—it does seem to be moving better now

**Objectives completed:** 0

**Publications:** 0

**Significant Accomplishments:** 0



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September 15, 2007

Ronna E. Dornsife  
Research Grants Administrator  
American Kennel Club Canine Health Foundation  
P.O. Box 37941  
Raleigh, NC 27627-7941

RE: Grant No. 632, "MicroRNAs and Canine Lymphoma"

Dear Ronna,

This letter is to formally request a one year no-cost extension for our current American Kennel Club Canine Health Foundation funded study, "MicroRNAs and Canine Lymphoma" (Grant No. 632). We have made excellent progress on Aim 1 of the study (development and construction of a canine microRNA array and microRNA profiling of normal canine tissues). We have completed development and construction of the array and have analyzed a panel of normal canine tissues with it. We are now completing validation of the microRNA microarray expression results. Importantly, we are in the process of working with Applied Biosystems to use novel technology developed by them for doing quantitative real time RT-PCR for mature microRNA expression. For Aim 2, microRNA microarray profiling of canine lymphoma, we have collected all of the samples for analysis (>100 samples). In the next couple months, we will know better the scope and availability of qRT-PCR reagents for microRNA profiling in the dog and will determine whether we should proceed with analyzing all of our collected samples with the microRNA array we have developed, with Applied Biosystems qRT-PCR microRNA array, or with both. We anticipate submitting a manuscript describing development of our canine microRNA microarray and validation of canine microRNAs within the next 6 months and completion of canine lymphoma microRNA profiling and manuscript submission over the next year.

Although we do need to request this extension, the project overall is going very well and we anticipate significant results. Additionally, although not included as a specific aim in the original proposal, in a significant subset of samples we will be able to correlate mRNA expression (determined in Grant No. 262) with miRNA expression in the same tumor. This study promises to have high scientific impact and implications for lymphoma diagnosis and treatment in the dog.

Best regards,

Bill

William C. Kisseberth, DVM, PhD, DACVIM (Oncology)  
Assistant Professor

David M. Flowers III  
Senior Sponsored Program Officer