



**Van Andel Institute**  
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# MEMO

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**TO:** IACUC  
**FROM:** MS. SABRINA ANTIO ON BEHALF OF DR. BIN TEH  
**MEMO DATE:** 7/13/06  
**RE:** AMENDMENT TO PROTOCOL #03-09-015

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## **AMENDMENT REASON:**

This amendment is submitted as a memo, because this protocol was approved prior to the implementation of Granite database, so it is not a Granite protocol.

We are amending this protocol to add ultrasound, now that an ultrasonographer is available to conduct the imaging. (Dr. Rick Hay has hired an ultrasonographer, Ms. Yue Guo, for his imaging lab; she will be available to work on other protocols.) We will be using ultrasound on all of the heterozygous animals (beginning at one year of age) of this protocol once per month to allow us to look for the development of cysts in the kidneys, lungs, and colorectal.

The ultrasound will be performed by Ms. Guo according to Vivarium standard operating procedure SOP #6.011 - Ultrasound of Mice. Therefore, we have updated the experimental design, added the SOP as an attachment, and added Ms. Guo to the associates for this protocol.

Ms. Yue Guo received her training and her associates degree from the Third Military Medical University in Chongqing, China, where she studied and worked for three years. She then went onto work for 10 years at the Xijing Hospital at the Fourth Military Medical University in Xi'an City, China. At this time, she is pursuing her U.S. sonography certificate.

In addition, Jared Knol is removed from the associate list.

There is no change to the animal numbers in this protocol.

## **EXPERIMENTAL DESIGN:**

We are amending this protocol to add ultrasound, now that an ultrasonographer is available to conduct the imaging. (Dr. Rick Hay has hired an ultrasonographer, Ms. Yue Guo, for his imaging lab; she will be available to work on other protocols.) We will be using ultrasound on all of the heterozygous animals (beginning at one year of age) of this protocol once per month to allow us to look for the development of cysts in the kidneys, lungs, and colorectal.

The ultrasound will be performed by Ms. Guo according to Vivarium standard operating procedure SOP #6.011 – Ultrasound of Mice (attached).