

Subject: Rodent Sentinel Quarterly Health Report -- Jul - Sep 2010

From: Rick Fish <rick_fish@ncsu.edu>

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Colleagues --

Attached is the full report from RADIL and a summary report of the positive serology and PCR results. Testing this quarter was limited to a serological panel submitted to RADIL, Helicobacter and pinworm PCR, and ectoparasite checks done in-house. The following rooms were tested using sentinel animals: Research Building Vivarium (RBV) 140, 142, and 152; F-section rooms F-135, 136.

Bottom line for this quarter: No significant changes in health status for all mouse rooms (no rat rooms tested this quarter). Mouse Norovirus and Helicobacter spp. were detected in numerous sentinels in RBV rooms. There were no positive serological or PCR tests in F-section rooms, and no parasites were found in any sentinel animals. Historically, mice from the RBV have tested positive for MNV, MPV, Helicobacter spp., and Pasteurella pneumotropica. Please let me know if you are interested in more detailed historic data.

This program is conducted to determine the infectious disease status of sentinel mice and rats, which reflects the status of the research animals. Cages of sentinel animals are placed on each side of each rack, and exposed to dirty bedding from colony animals. Blood samples are collected from sentinels after 8-12 weeks, and submitted to RADIL for serological testing with Multiplex Fluorescent Immunoassay technology. RADIL now uses two antigens for most infectious disease agents to improve diagnostic accuracy. Depending upon which pathogens produced positive serological titers, a plan of action may be required to ensure biosecurity within a particular room or between rooms.

Abbreviations for infectious disease agents tested by serology are here: <http://radil.missouri.edu/serologytests.html>

Mouse agents included in this screening were: *Mycoplasma pulmonis*, Ectromelia, EDIM, LCMV, MHV, MNV, MPV, MVM, PVM, REO3, Sendai, TMEV, Helicobacter spp., *Syphacia obvelata*, and *Aspicularis tetraptera*.

Please provide feedback on this reporting, and let me know if you don't need to be on this distribution list (or someone should be added).

Good luck,
Rick

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