HEALTH SURVEILLANCE REPORT

**Byrd Alzheimer’s Center and Research Institute**

University of South Florida, Division of Comparative Medicine

The University of South Florida Animal Care and Use Program and Facilities are fully accredited by AAALAC, and are registered as a research facility by the United States Department of Agriculture (USDA). The Byrd Alzheimer’s Center and Research Institute (ALZ) vivarium is a rodent facility located on the USF Tampa main campus. This facility was depopulated, renovated and repopulated in the fall of 2019. Animal care staff wear dedicated clothing and research staff are required to don disposable laboratory coats, shoe covers, and hair covering whenever entering animal housing areas, and gloves and sleeves when handling animals. All mice are either obtained from approved reputable commercial vendors or undergo quarantine and testing prior to being released into housing areas. This facility houses all mice in autoclaved individually-ventilated microisolators, with irradiated food and autoclaved water and bedding. All microisolators are changed in a laminar flow changing station. Gloved hands are disinfected between cage/animal changes. Access to the facility is limited to IACUC trained certified individuals included on approved protocols.

The health surveillance program consisted of quarterly testing of sentinel animals exposed to “soiled” bedding from cages on racks where the mice are housed until May 2020. Beginning August 2020 quarterly health evaluations began using exhaust air duct samples collected by Tecniplast Interceptor filters and tested by PCR at IDEXX. Quarterly testing take place during the months of February, May, August, and November and involves PCR testing for evidence of exposure to murine pathogens and for evidence of ectoparasites and endoparasites. Health assessments consist of quarterly testing for: MHV, MPV, MVM, TMEV, EDIM, fur mites, pinworms and C. bovis; semiannual testing for: Helicobacter, MNV; and annual testing for: Sendai, M. pulmonis, PVM, REO3, LCMV, Ectromelia, MAV1-2, and Polyomavirus. Agents tested for and the frequency of testing can be found in the table below.

Summarized below are the results of health evaluations from the room of origin of the requested mice.

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| --- | --- | --- |
| **Room:** | **Investigator:** | **Strain or Line:** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **AGENT** | **METHOD** | **RESULTS****(DATE)****MFI** | **RESULTS****(DATE)****MFI** | **RESULTS****(DATE)****MFI** | **RESULTS****(DATE)±****EAD** |
| Mouse Hepatitis Virus (MHV) Q | MFI/PCR |  |  |  |  |
| Mouse Parvovirus (MPV 1-5)  Q | MFI/PCR |  |  |  |  |
| Mouse Minute Virus ( MVM )  Q | MFI/PCR |  |  |  |  |
| Theiler's Meningoencephalomyelitis Virus (TMEV) Q | MFI/PCR |  |  |  |  |
| Epizootic Diarrhea of Infant Mice (EDIM ) Q | MFI/PCR |  |  |  |  |
| Fur Mites (Myocoptes, Myobia, Radfordia)  Q | PCR |  |  |  |  |
| Pinworms (Syphacia, Aspiculuris) Q | PCR |  |  |  |  |
| Corynebacterium bovis Q | PCR |  |  |  |  |
| Helicobacter spp.S | PCR |  |  |  |  |
| Murine Norovirus (MNV) S | MFI/PCR |  |  |  |  |
| Sendai Virus (SEN ) A | MFI/PCR |  |  |  |  |
| Mycoplasma pulmonis  A  | MFI/PCR |  |  |  |  |
| Paramyxovirus (PVM)  A | MFI/PCR |  |  |  |  |
| Reovirus (Reo3)  A | MFI/PCR |  |  |  |  |
| Lymphocytic Choriomeningitis (LCMV)  A | MFI/PCR |  |  |  |  |
| Ectromelia Virus (Ectro) A | MFI/PCR |  |  |  |  |
| Mouse Adenovirus Strain 1 72 (MAV1-2)  A | MFI/PCR |  |  |  |  |
| Polyomavirus  A | MFI/PCR |  |  |  |  |

**HEALTH SURVEILLANCE SUMMARY**

MFI=Multiplex Fluorescent Immunoassay using sentinels; *nt*=not tested; QQuarterly; SSemiannually; AAnnually; ±Exhaust Air Duct PCR

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