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Mice Housing and Experimentation Conditions

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We use this protocol and it's working

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Abstract

Mice Housing and Experimentation Conditions

Troubleshooting



Animal Housing

1w 3d

- 1 WT C57BL/6J mice were obtained from JAX (RRID:IMSR_JAX:000664, Jackson Laboratory, Bar Harbor, ME).
- 2 The mice are habituated for a minimum of 10 days.
- 3 All animals are housed in a reverse light cycle, and the room they are housed in is both temperature and humidity controlled, as is all the rooms the mice are tested in.
- 4 Care of these animals was in accordance with the National Institutes of Health Guide for the Care and Use of Laboratory Animals

1w 3d

Experimental Conditions

- 5 When the experiment started, all mice were aged 8 weeks, and all mice used in this study were male
- 6 For each experimental condition, two cohorts of animals were used, and each cohort has three replicates of mice with the same experimental condition
- 7 Initially, these mice had normal feed for the acclimation period, and for two weeks post retro orbital injection.
- 8 Two weeks after retro-orbital injection, mice were switched to a doxycycline feed (Cat. No S3888, Bio-Serv, Flemington, Nj) in order to activate the virus
- 9 The doxycycline feed was also supplemented by an intraperitoneal injection of 2 mg/kg doxycycline (Cat No. D9891-10G, Millipore Sigma, Darmstadt, Germany) twice weekly.
- 10 Mice from each experimental condition were randomized and sacrificed at predetermined time points to collect tissue for histology and transcriptomics.
- 11 Both data collection and analyses were not performed blind to the experimental conditions.