

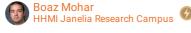


Retro-orbital injection of virus or dye in mice

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ABSTRACT

This protocol is following:



Tal Yardeni, Michael Eckhaus, H. Douglas Morris, Marjan Huizing, Shelley Hoogstraten-Miller (2011). Retro-orbital injections in mice. LabAnimal.

http://10.1038/laban0511-155

GUIDELINES

Please adhere to your institue IACUC guidelines of animal care.

MATERIALS

CATALOG #	VENDOR V
09230	Ulticare
CATALOG #	VENDOR V
09230	Ulticare
	09230 CATALOG # >

MATERIALS TEXT

It is important that the needel used has low friction so that the injection is at a slow and consisitnat rate.

Injection

- 1 Prepare either virus dilution (5.0e11-1.0e12) with PBS prepare or a dye aliquot. Injection is up to 200ul per mouse.
- 2 Take one mouse from the cage into an induction chamber and start isoflurane at 3% with flow rate of ~1L/min
- 3 After the mouse has slow breathing (~1/s) move the mouse to a nose cone delivery of isoflurane at 1.5% with around the same flow rate.

4 /

Expose the eye ball with two fingers (above and below) and make sure the you are not pressing on the trachea and the mouse's breathing is regular.

5 /

Use a 29G syringe at a 30-degree angle beveled downwards until you hit the bone, retract a bit and slowly inject. See cited paper for more details.





- 6 Remove the needle slowly and press the eyelid shut for a few seconds.
 - Validating the injection was successful is possible with JF525 by looking at the pee of the animal after it wakes up. Leaving the animal in a clean cup with kim-wips will collect the pee and it would seem pink.

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