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Retro-orbital injection of AAV in mice

Forked from Retro-orbital injection of virus or dye in mice

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ABSTRACT

This protocol is following:

OPEN ACCESS

dx.doi.org/10.17504/protocol s.io.3byl4joy8lo5/v1

Protocol Citation: Miguel Chuapoco 2023. Retro-orbital injection of AAV in mice.

protocols.io

https://dx.doi.org/10.17504/p rotocols.io.3byl4joy8lo5/v1

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Protocol status: Working We use this protocol and it's working

Created: May 09, 2023

Last Modified: May 23, 2023

PROTOCOL integer ID: 81665

Keywords: Mice, Retroorbital injections

CITATION

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

LINK

10.1038/laban0511-155

GUIDELINES

Please adhere to your institue IACUC guidelines of animal care.

MATERIALS

MATERIALS

29G x 12.7mm 0.3ml syringe Ulticare Catalog #09230

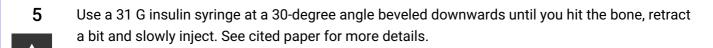
STEP MATERIALS

29G x 12.7mm 0.3ml syringe Ulticare Catalog

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 with PBS prepare. Injection is up to 100 μL per mouse.
- 2 Take one mouse from the cage into an induction chamber and start isoflurane at 3% with flow rate of ~1L/min
- After the mouse has slow breathing (\sim 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.



CITATION

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Equipment	
U-100 BD Ultra-Fine™ Short Insulin Syringes	NAME
Syringe and neecdle	TYPE
BD Medical	BRAND
BD328438	SKU
https://us.vwr.com/store/catalog/product.jsp?catalog_number=BD328438	LINK

6 Remove the needle slowly and press the eyelid shut for a few seconds.

7 Prior to recovery, apply 1-2 drops 0.5% ophthalmic Proparacaine to the injected eye

