ABSTRACT

This protocol is following:

CITATION


GUIDELINES

Please adhere to your institute IACUC guidelines of animal care.

MATERIALS

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

STEP MATERIALS

It is important that the needle used has low friction so that the injection is at a slow and consistent rate.
PROTOCOL integer ID: 81665

Keywords: Mice, Retro-orbital injections

### 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

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 31 G insulin 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.

### CITATION


[LINK][10.1038/lab0511-155]
### Equipment

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<tr>
<th>NAME</th>
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<tr>
<td><strong>U-100 BD Ultra-Fine™ Short Insulin Syringes</strong></td>
<td><strong>Syringe and needle</strong></td>
<td><strong>BD Medical</strong></td>
<td><strong>BD328438</strong></td>
<td><a href="https://us.vwr.com/store/catalog/product.jsp?catalog_number=BD328438">https://us.vwr.com/store/catalog/product.jsp?catalog_number=BD328438</a></td>
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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.