 <p>University of Zurich UZH Institute of Laboratory Animal Sciences</p>	<p align="center">Standard Operating Procedure</p> <p align="center">SOP</p>	<p align="center">Page 2 of 3</p>
<p>Date: 06.08.2018</p>	<p align="center">Subcutaneous injection of mice s.c. Injection</p>	<p>LTK-TRT-11-EN Version: B</p>

Machine:

1. Laminar flow/changing station
2. optional: Isoflurane setup

Material:

1. 1 ml syringe/insulin syringe
2. 25-27 gauge needle


Reagents:
optional: isoflurane

Safety:
Rules for the respective animal room have to be followed

Method Description:

1. Place cage with animal and second cage (if more than one mouse is injected) under laminar flow/changing station
2. Immobilize the mouse on the cage grid with one hand, allowing it to grasp the grid with its paws.
Optional: anesthetize the mouse using isoflurane (e.g. if researcher has small hands)
3. While restraining the mouse with the hand (by pressing it down moderately) use the fore-finger and thumb to lift the skin on the back of the mouse.
4. Inject into the lifted skin but well below your fingers holding the skin and parallel to the body of the mouse to avoid damage to underlying structures.
5. Aspirate to make sure the needle hasn't entered a blood vessel.
6. Inject the liquid slowly.
7. Withdraw the needle and press the skin, and check that no liquid is running out of the skin.
8. Feel the bleb on the skin resulting from the injected liquid.
9. Put the mouse back into the cage.

Criteria for approving outcome:
all liquid injected without complications

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Documentation:

The experiment has to be recorded as required by the respective animal permit. Also, an entry in the lab book has to be made.

Problem management:

In case of serious adverse events the animal has to be euthanized. Contact supervisor, lab head or vet.