

STOP - CAP INJECTIONS

GOAL **Improvement of intraperitoneal injections in small rodents**

The intraperitoneal (i.p.) injection is an application into the abdominal cavity of an animal with a fast resorption of the injected substance. To avoid injury to the animal or interference with the results, it is important not to inject into an organ of the abdominal cavity.

To avoid this, the **animals head** needs to be **held down** to ensure a more cranial position of the organs due to gravity. Further, the depth of needle insertion into the abdominal cavity is important: Too short would lead to a subcutaneous or intramuscular injection and too deep risks again damaging organs or blood vessels.

The following **STOP-CAP NEEDLE technique** ensures a **sufficient penetration** into the abdominal cavity for all i.p. injections. Simultaneously, a too deep injection can be avoided and the needle tip inside the animal can be stabilized while aspirating.

The **i.p. injections** will be **more standardized** and **easier** to perform!

- TECHNIQUE**
- 1. shorten the cap of needle with strong scissors or wire cutters**
 - 2. for mice: 5mm of the needle outside the cap**
 - 2. for rats: 7-8 mm of the needle outside the cap**
 - 3. proceed to the injection as usual: head down, on the virtual line in front the hind limbs, aspirate before injection**

EASY - EFFICIENT - NO RISK

good quality science and animal welfare working together

26G 25mm for rats

7-8 mm

26G 13mm for mice

5 mm

