

Useful Functions of the Auxiliary Ear Bar

Rats and mice are mainly used in the field of animal testing. Comparing stereotaxic instruments available from the various manufacturers, you may not find any great difference at a glance. However, there is a remarkable difference between Narishige and others in concept.

That is the AUXILIARY EAR BAR.

◆◆ Concept of Auxiliary Ear Bar ◆◆

When you settle an animal on a stereotaxic instrument in general, you put ear bars directly into ear holes adjusting the animal inside the instrument. When you target middle-sized animals such as monkeys or dogs, you can follow this method because the instrument is big enough and the animals are strong enough in structure. However, when the animals are small, the method may not always work well because instruments are small, thus providing only limited working space despite the animal's weak and sensitive structure. To solve this issue, our stereotaxic instruments for small animals use the auxiliary ear bars. **You initially put an auxiliary unit on the animal outside the instrument which plays the role of a guide. It works to facilitate the final settlement onto the instrument, and at the same time, enhances reproducibility of positioning. This is the concept of the auxiliary ear bar.**

Conventional Auxiliary Ear Bar



-Our Former Model-

◆◆ Key to Realize the Concept ◆◆

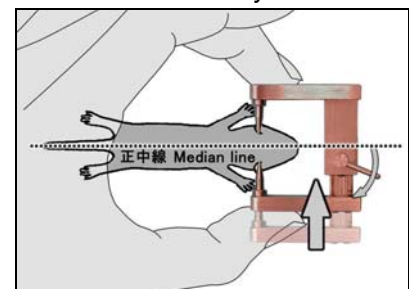
When you use the auxiliary ear bar to settle an animal on the instrument, you are taking an extra step that is not used by other companies, that is "applying the auxiliary ear bar to the animal". Does this process trouble you?

<Point ! >

With the auxiliary ear bar, work efficiency is the key. If it is awkward to apply the auxiliary ear bar to the animal, it has no advantage. Our auxiliary ear bars employ dovetail to allow smooth movement. Also, by utilizing repulsive force of spring, it transmits subtle touch during application allowing for sensitive adjustment. The fixing knob is located so as to allow even one-handed operation.

Because you put the auxiliary ear bar on the animals outside the instrument, you can proceed with the application quickly without interference from the various components on the instrument. As you can confirm the application at any angle, it is most appropriately fixed to the ear holes of the animal. When you finally settle the animal in the stereotaxic way on the instrument, a guide has already been applied, thus it is easy and highly reproducible. As ear drums are protected by the auxiliary ear bar, there is less possibility of damaging ear drums. By using the auxiliary ear bar, you can realize quick and reliable fixation of small animals to stereotaxic instruments.

Present Auxiliary Ear Bar



<Bits of knowledge>

Ear holes of rats and mice are not horizontal but slightly angled. This fact can make it difficult to settle the small animals to the instruments only with ear bars. Those animals are settled on the instruments by fixation at three points (ear, mouth and nose). Applying ear bars properly is the most important issue in stereotaxic fixation.