Researchers at the University of South Florida have designed a mount for mouse dissection that will allow for expedited sample collection.

Once mice are euthanized following anesthesia, their physiological conditions start to alter dramatically. The levels of mRNAs, cytokines, proteins, physiological active substances, and/or histopathological appearance of each organ are easily affected by the dramatic hemodynamic alterations caused by anesthesia and/or euthanasia. Thus, expediting the dissection of the animals is a critical shortcut to a successful animal experiment.

Currently, the most widely used method to secure a mouse on a dissection board is to tape or pin its limbs which is a time-consuming process. Furthermore, removing the tape and pins from the board after each dissection also takes considerable time.

A USF scientist has developed a new apparatus for mounting mice for dissection and sample collection. This device’s ergonomic design allows for rapid immobilization of the anesthetized and/or euthanized mice. Simple design enables stress-free cleaning. Each module that constitutes the device can be easily and quickly replaced when worn or damaged, making the product eco-friendly and durable. This novel mount will promise secure, rapid and accurate administration of animal experiments, leading the researchers to a road to success.

**ADVANTAGES:**
- Simplified multilayer structure accommodates wide range of animal sizes
- Productivity-oriented ergonomic design
- Easy clean-up design helps to keep it looking new
- Eco-friendly replaceable module design
- Durable structure making it long-lasting

**Schematic of New Mouse Dissection Mount**

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