

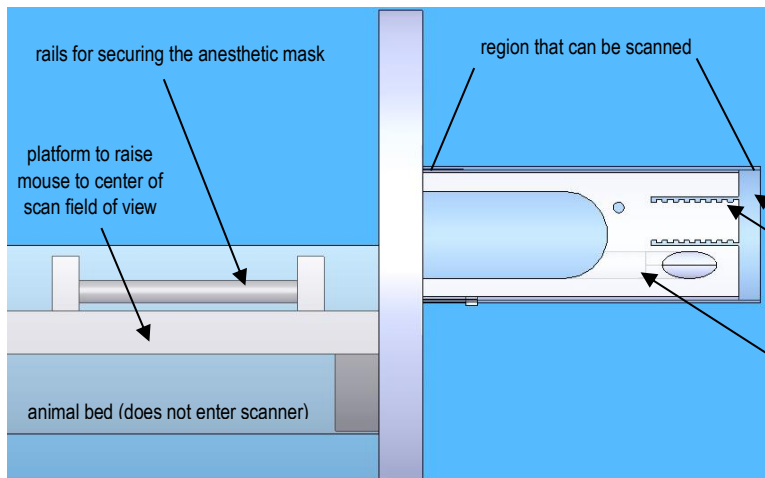
VivaCT40 Mouse Lower Body Fixture

The mouse lies on a platform in the animal bed. The body is fed through the fixture and the legs are held on opposite sides of a partition. The mouse can be positioned on its back for vertebral scans to reduce motion artifacts due to expansion of the lungs during respiration.

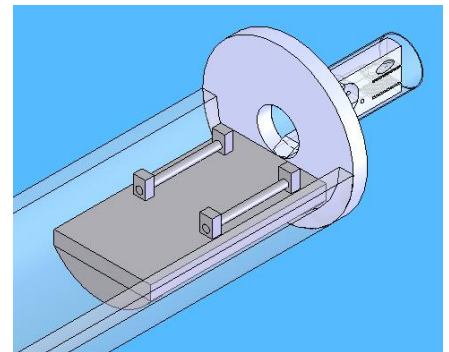
Designed by Helen Buie and Chris Moore

- Animal positioning: mouse can be scanned on its stomach or back
the back is better for scanning the spine since it reduces motion artifacts
the tail feeds through the tail hole
the ankles and feet are secured with orthodontic elastic bands
- Scan region: L5-L6 and lower on the body
- Scout view: large bed, 3rd hole from front 50-115 (feet – body), 90° top view, 0° side view
small bed, 4th hole from front 85-145 (feet – body), 90° top view, 0° side view
- Highest resolution: 12.5 μm with 25.6 mm field of view (FOV) - Possible
15 μm with 30.7 mm FOV - Recommended
- Recommended anesthetic: 1-2 v/v% isoflurane, 1 L/min oxygen

Fixture side view.

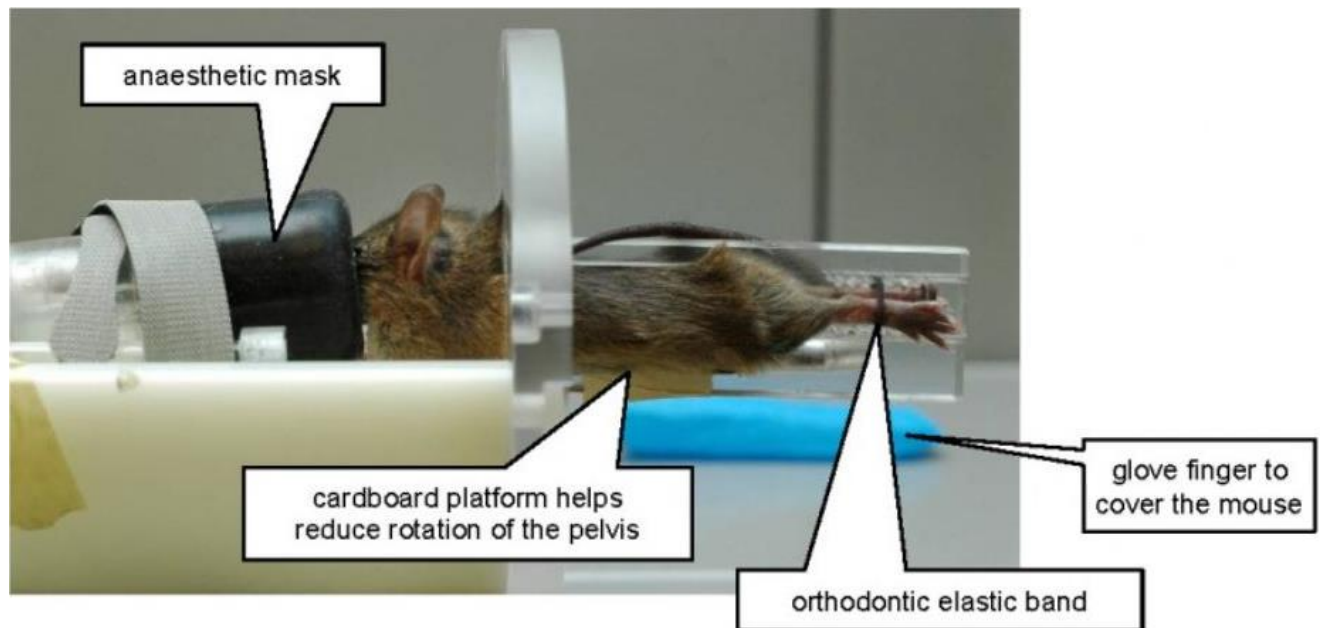


Fixture orthotropic view.

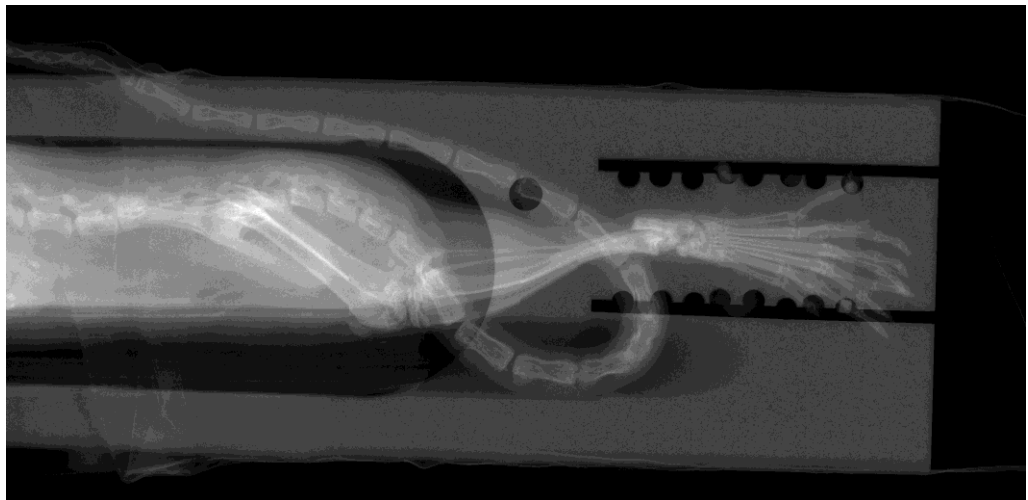


- plastic tube or glove finger (L) to catch feces
- grooves for orthodontic elastic bands used to hold the mouse's ankles
- hole for mouse tail

A mouse setup in the scan fixture.



A side scout view.



A top scout view

