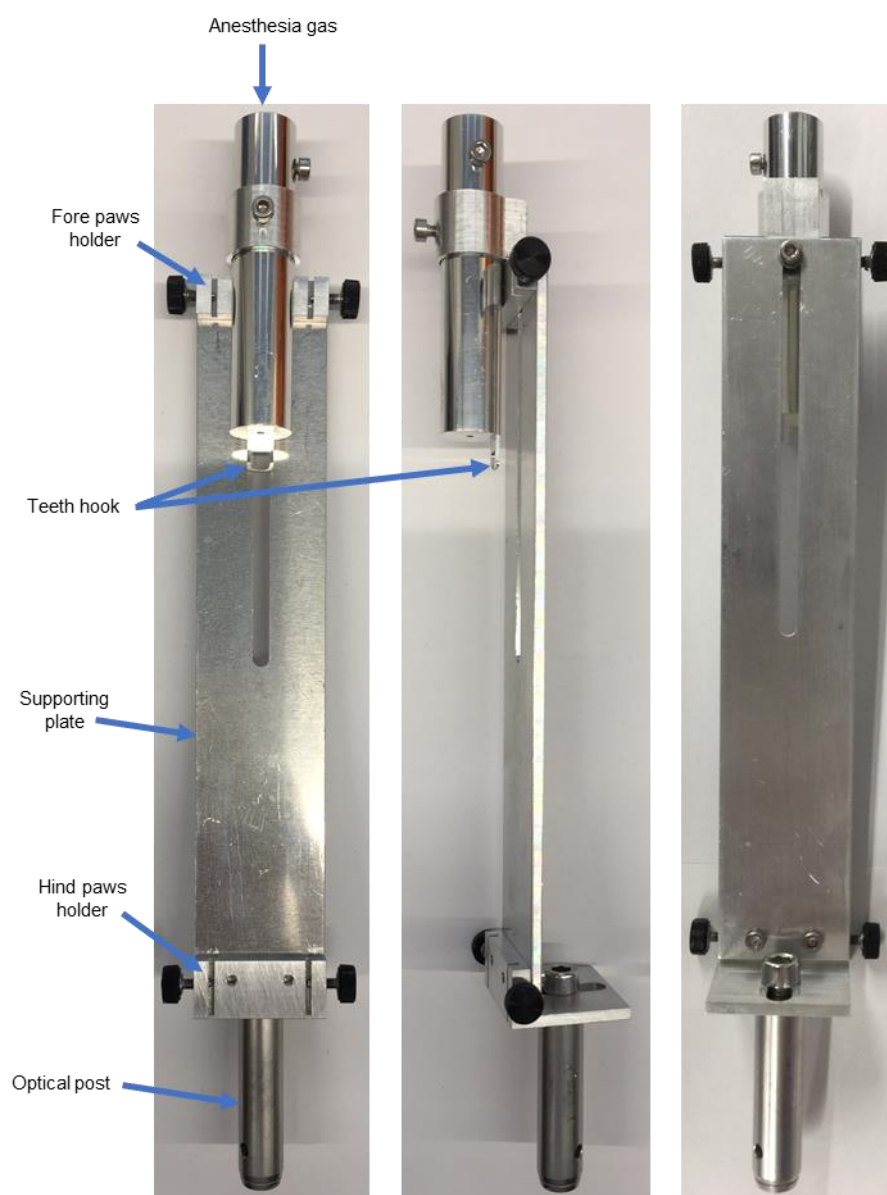

Supplementary information

**Spiral volumetric optoacoustic tomography
for imaging whole-body biodynamics in
small animals**

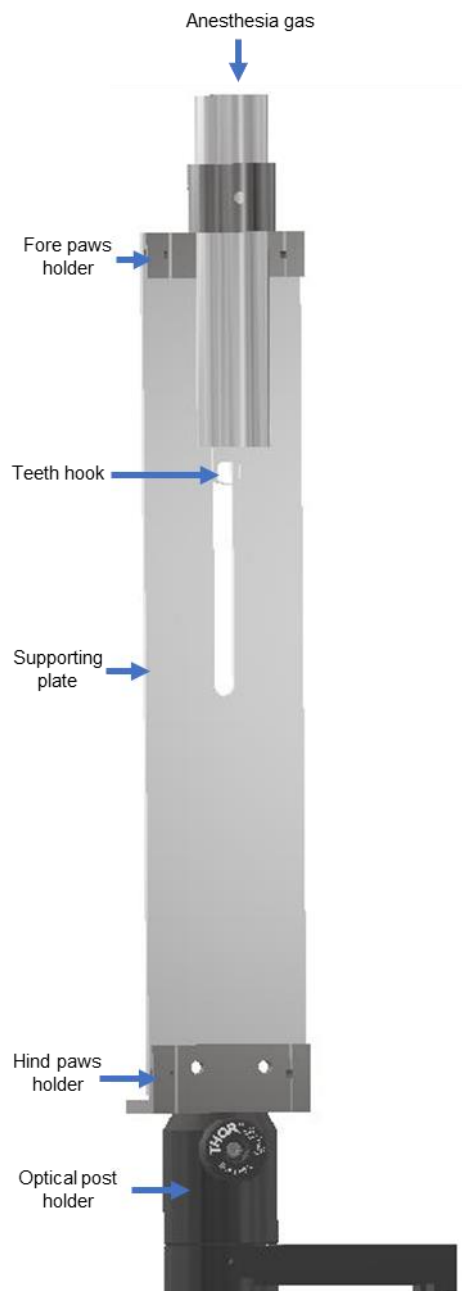
In the format provided by the
authors and unedited

Supplementary information



Supplementary Figure 1. Photographs of custom-engineered mouse holder. Left: front view, middle: side view, right: back view. The supporting plate is removed after transferring the mouse into water tank.

The animal holder was machined using the mechanical workshop in the institute. The 3D CAD model assembly of the animal holder is shown in the below figure:



Supplementary Figure 2. 3D CAD model assembly of the custom-engineered animal holder.

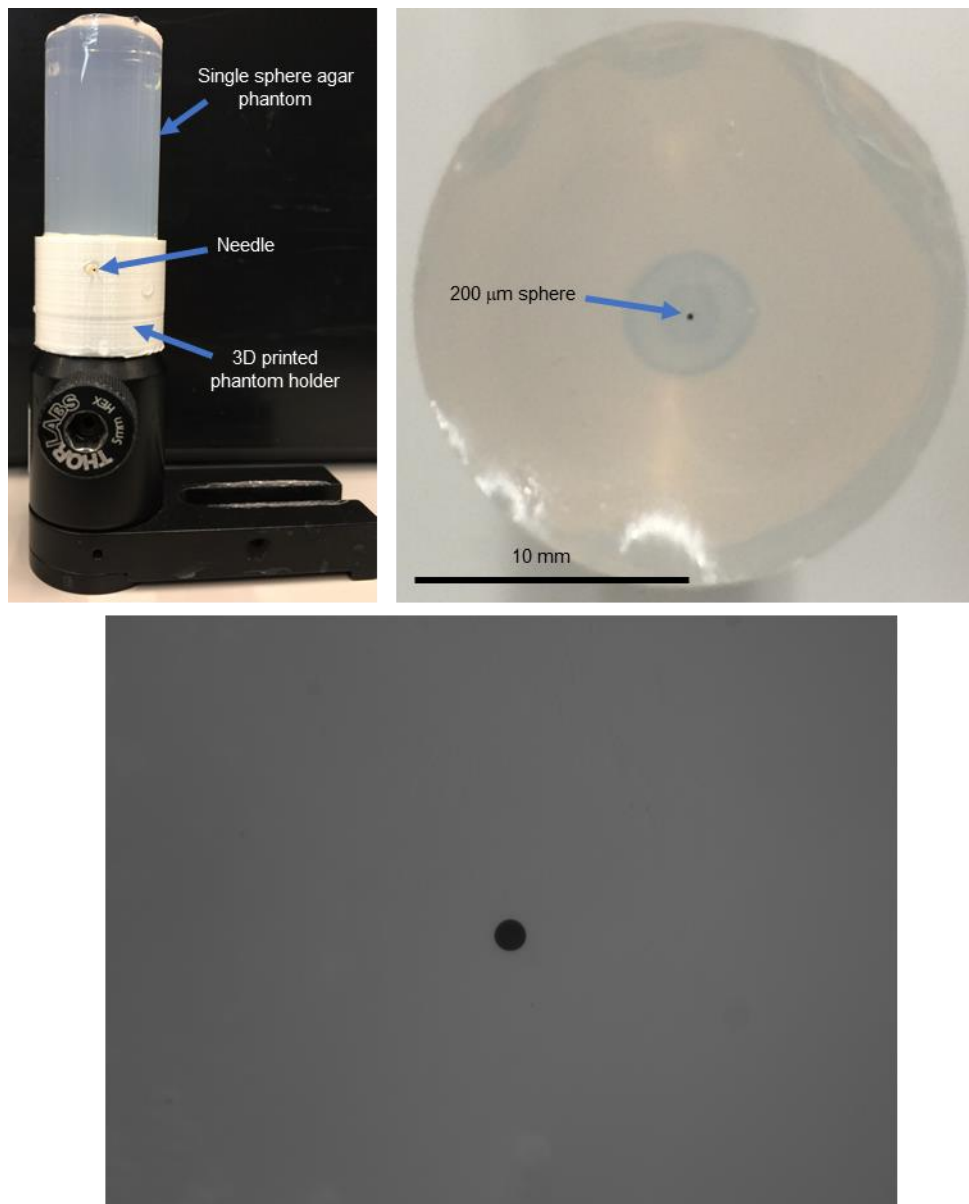
The 3D models of the components can be downloaded through the following link:
<https://doi.org/10.6084/m9.figshare.21707867>

Below is the list of the parts that were machined:

- Part 1: Fore paws holder
- Part 2: Hind paws holder
- Part 3: Teeth hook and anesthesia gas supply
- Part 4: Supporting plate

The components that can be purchased from Thorlabs Inc. are listed below.

- TR30
- UPH30



Supplementary Figure 3. Top left: Photo of a 20 mm diameter cylindrical agar phantom with phantom holder. Agar phantom is placed inside a 3D printed holder and secured in place with a needle. Top right: Photo of embedded single 200 μm diameter sphere at the center of the agar phantom. Bottom: Microscopic image of the embedded sphere inside agar.