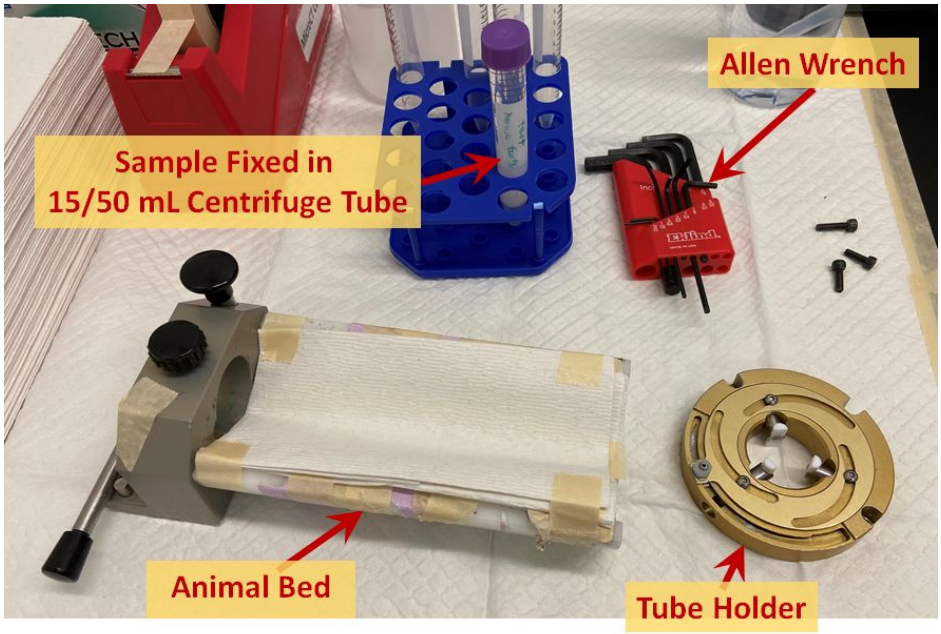
Video Demo - How to set up an *ex vivo* scan on VivaCT40

By PCMD MicroCT Imaging Core

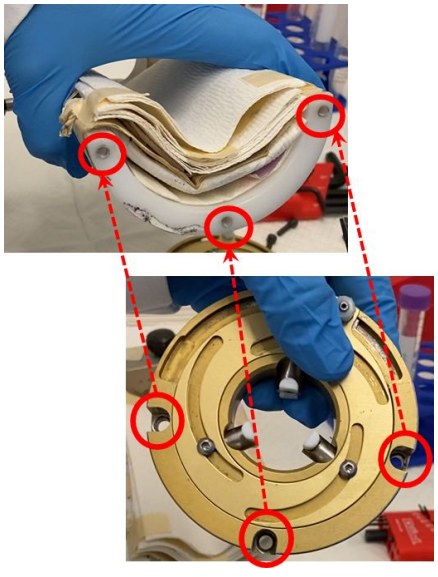
Youtube link: https://www.youtube.com/watch?v=sxvTV4bv0sw
All our video tutorials are listed on our website: https://www.med.upenn.edu/orl/uct/user-tutorials.html

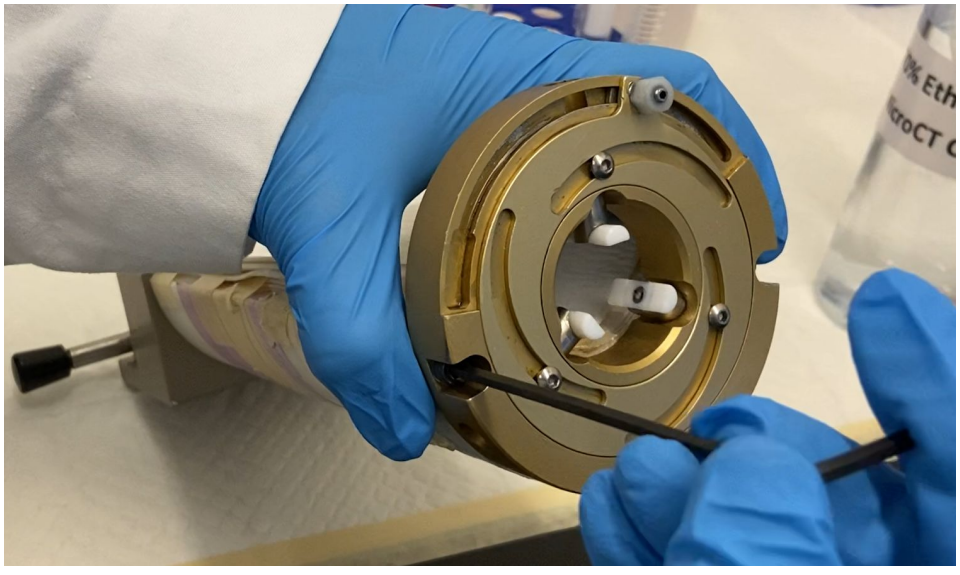
Step 1 (optional): Fix the tube holder to the animal bed

(Note: If the tube holder is already fixed to the animal bed, you may skip this step.)



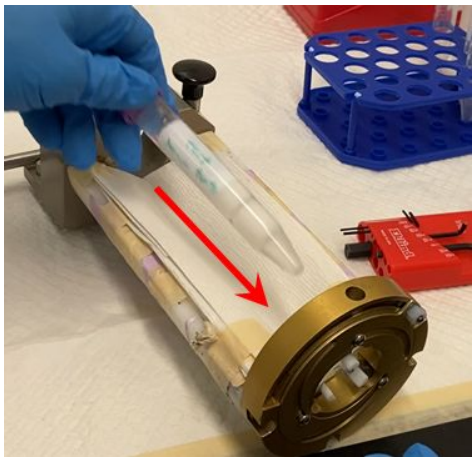
Align the 3 holes in the tube holder to the 3 threaded holes in the animal bed.
Using an allen wrench, fixate the 3 screws to secure the tube holder to the animal bed.

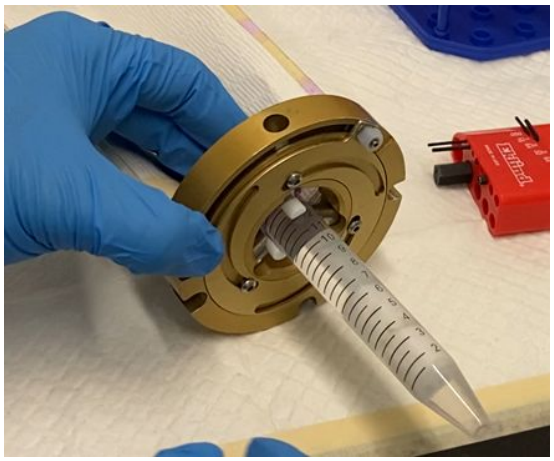




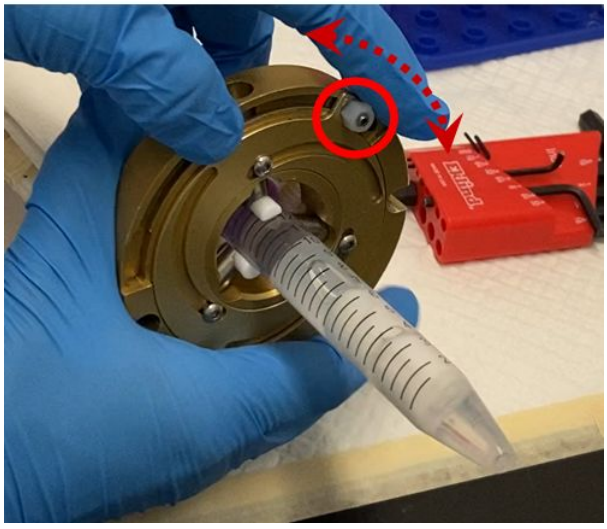
Step 2: Fix the centrifuge tube to the tube holder

1. Insert the centrifuge tube (15mL or 50 mL) into the tube holder.

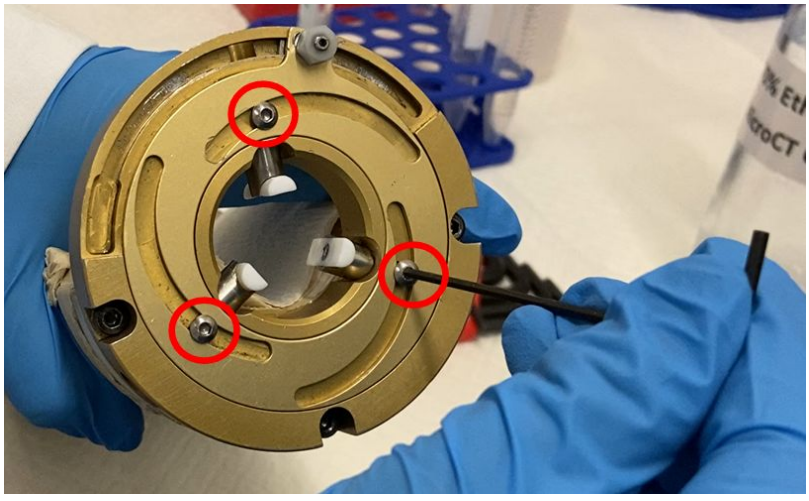




2. Loosen or adjust the screw accordingly to ensure your tube fits securely in the tube holder.

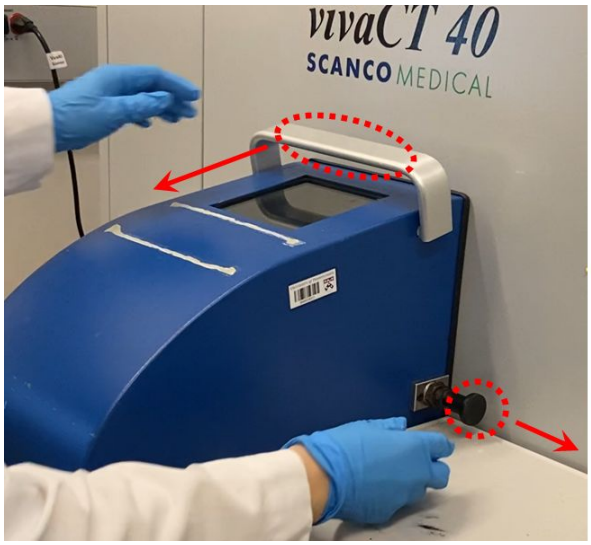


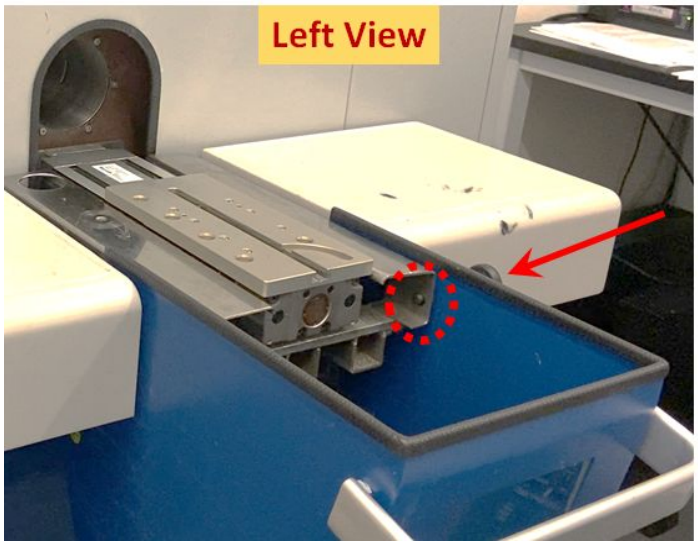
Note: If the screw is too tight to adjust, use an allen wrench to loosen the 3 screws in the inner circle.



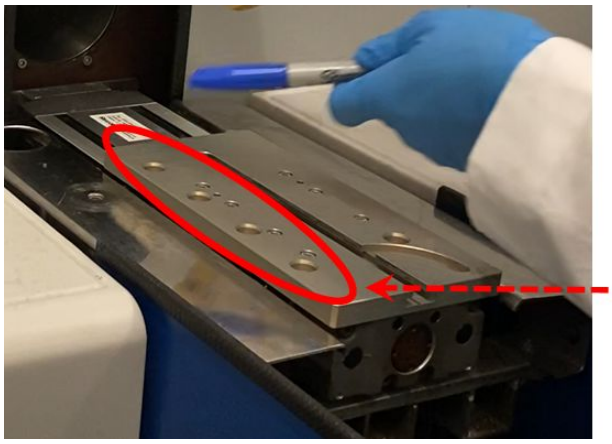
Step 3: Load your sample into the VivaCT40 scanner

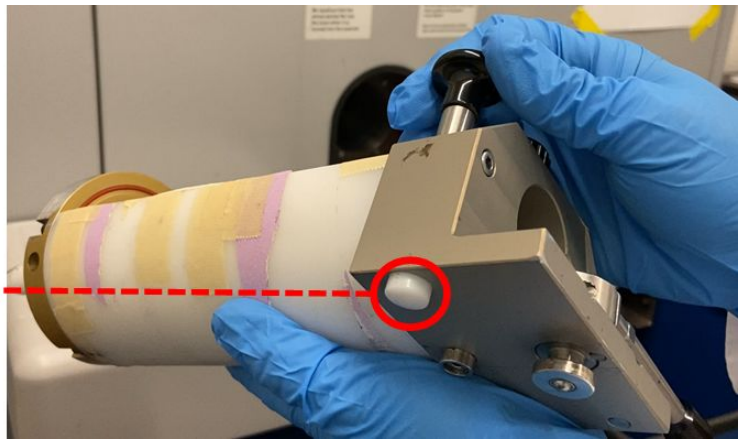
1. Pull out the hood handle, and open the hood.

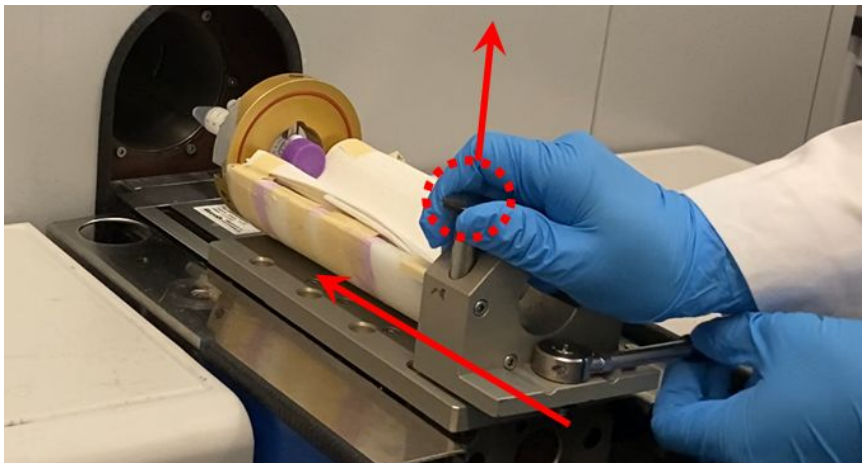




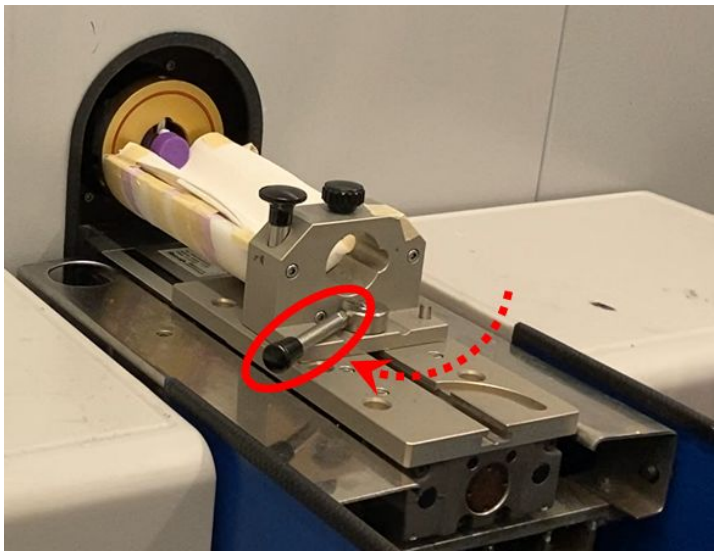
2. Lift the anchor to release the animal bed and slide it onto the scanner track.



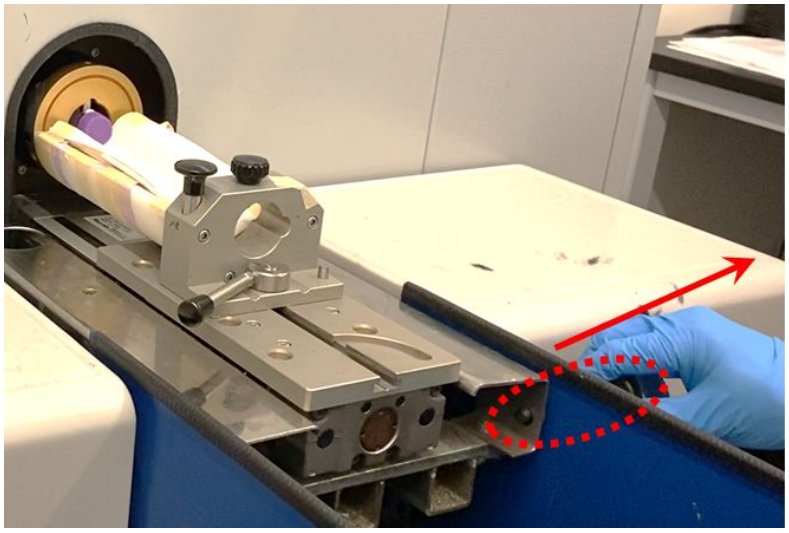


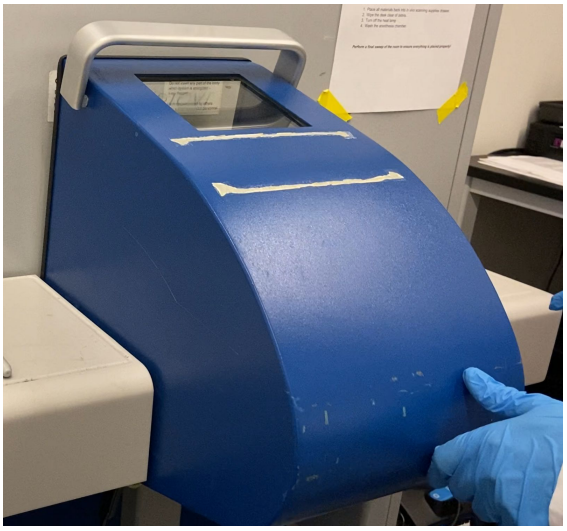


3. Lock the secure handle on the animal bed to the scanner track.



4. Release the door handle of the hood, and close the scanner hood.



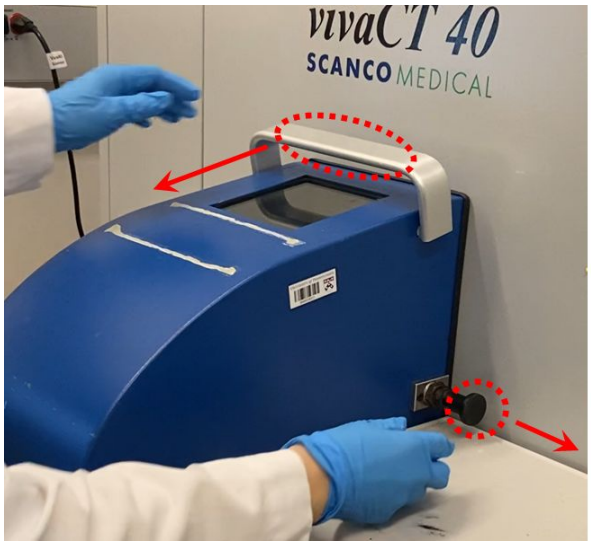


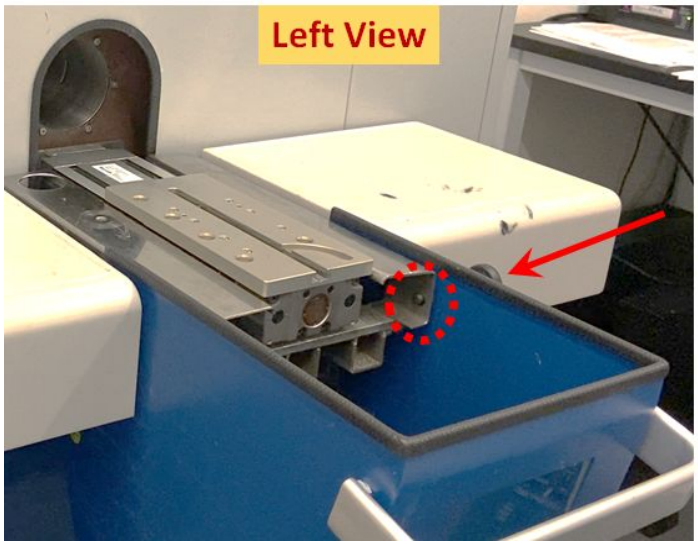
Step 4: Create a sample folder, perform a scout view, select the region of interest, and start a scan

The details of this step are covered in our training video:
https://www.med.upenn.edu/orl/uct/resources.html
“Demo - How to set up a scan on µCT35”
(from 7:35 to 14:20)

Step 5: After the scan is finished, retrieve the sample

1. Pull out the hood handle, and open the hood.





2. Take out the animal bed, and close the hood. Done!