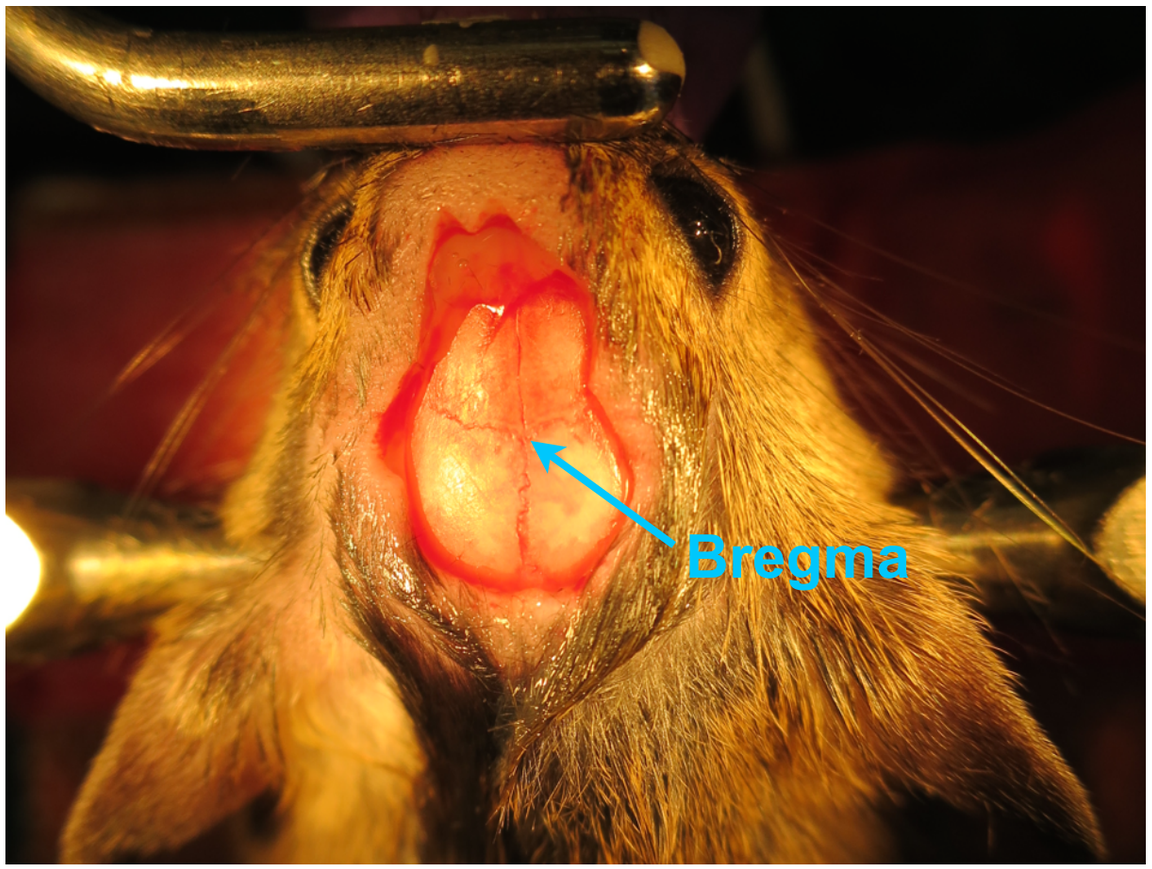
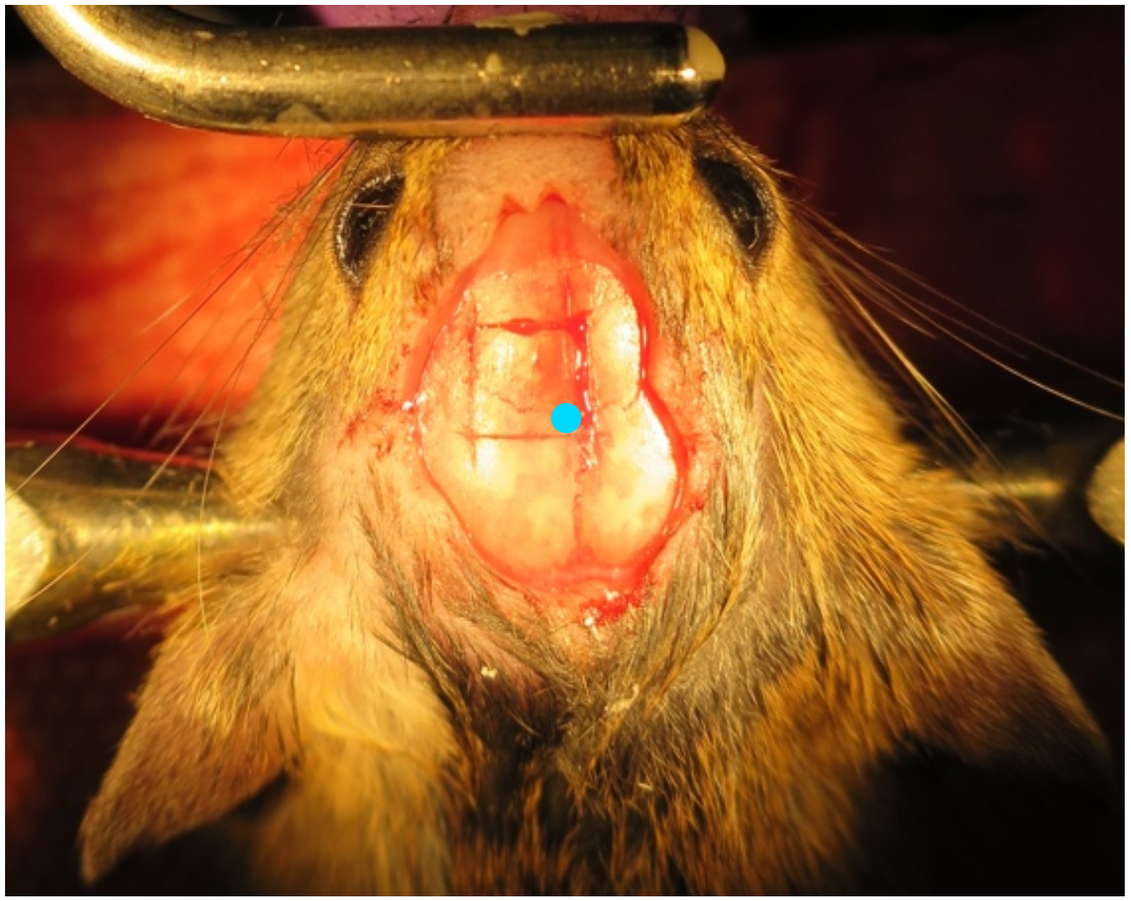
1) Cut skin and scrape skull clean



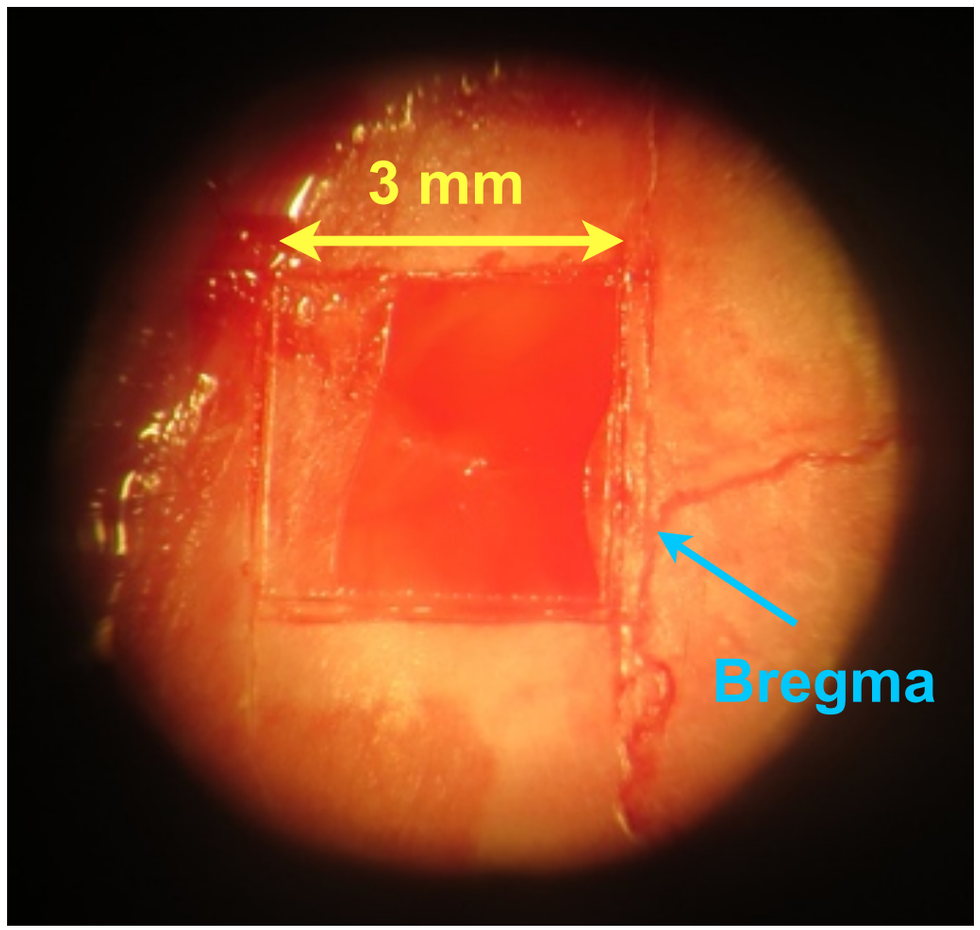
2) Outline of craniotomy has been scored using glass as a template



● **Bregma**

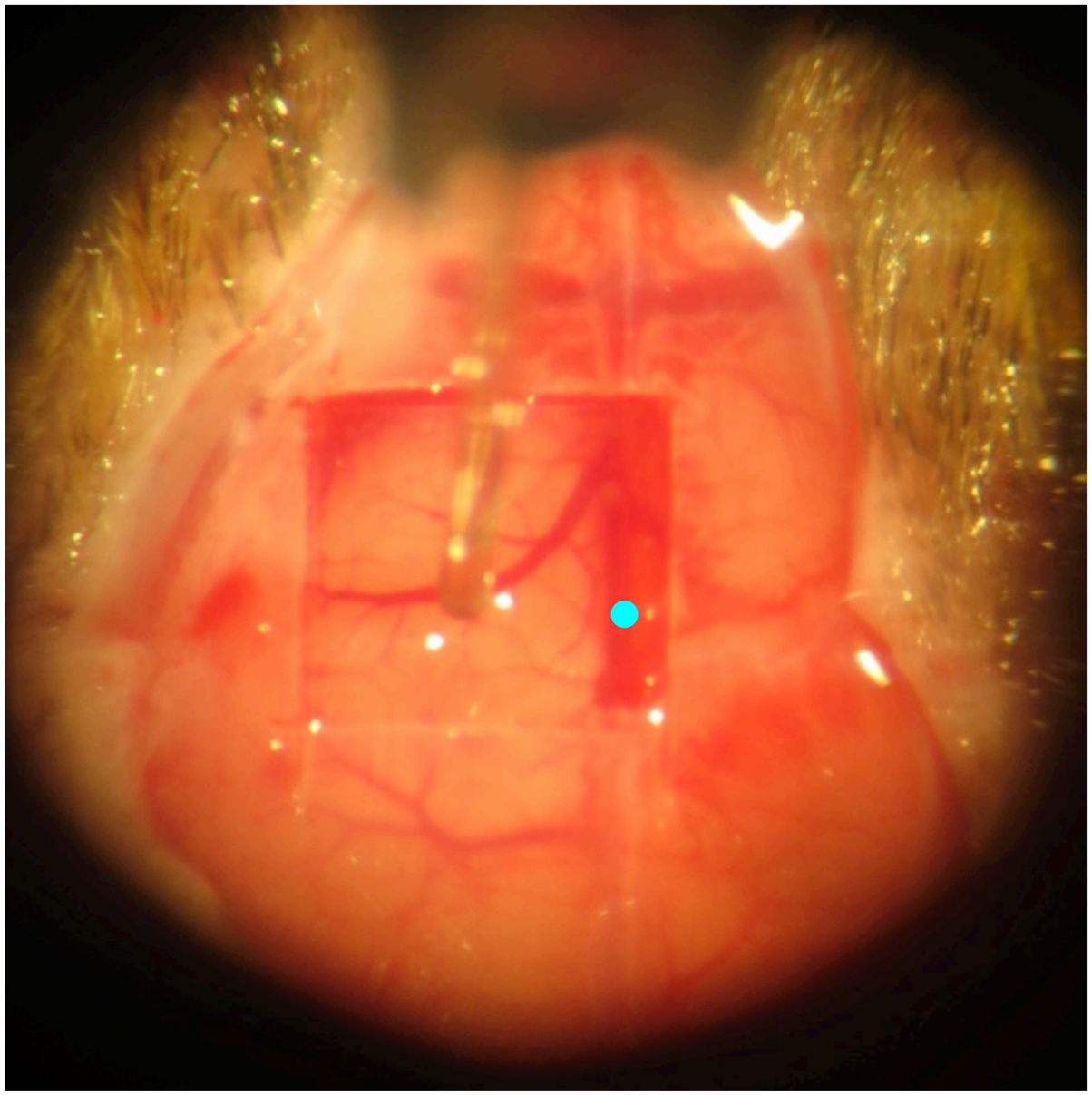
Craniotomy crosses both midline and horizontal suture from anterior to posterior

3) Bone has been removed and glass is placed into craniotomy. Blood will be washed off in next step.



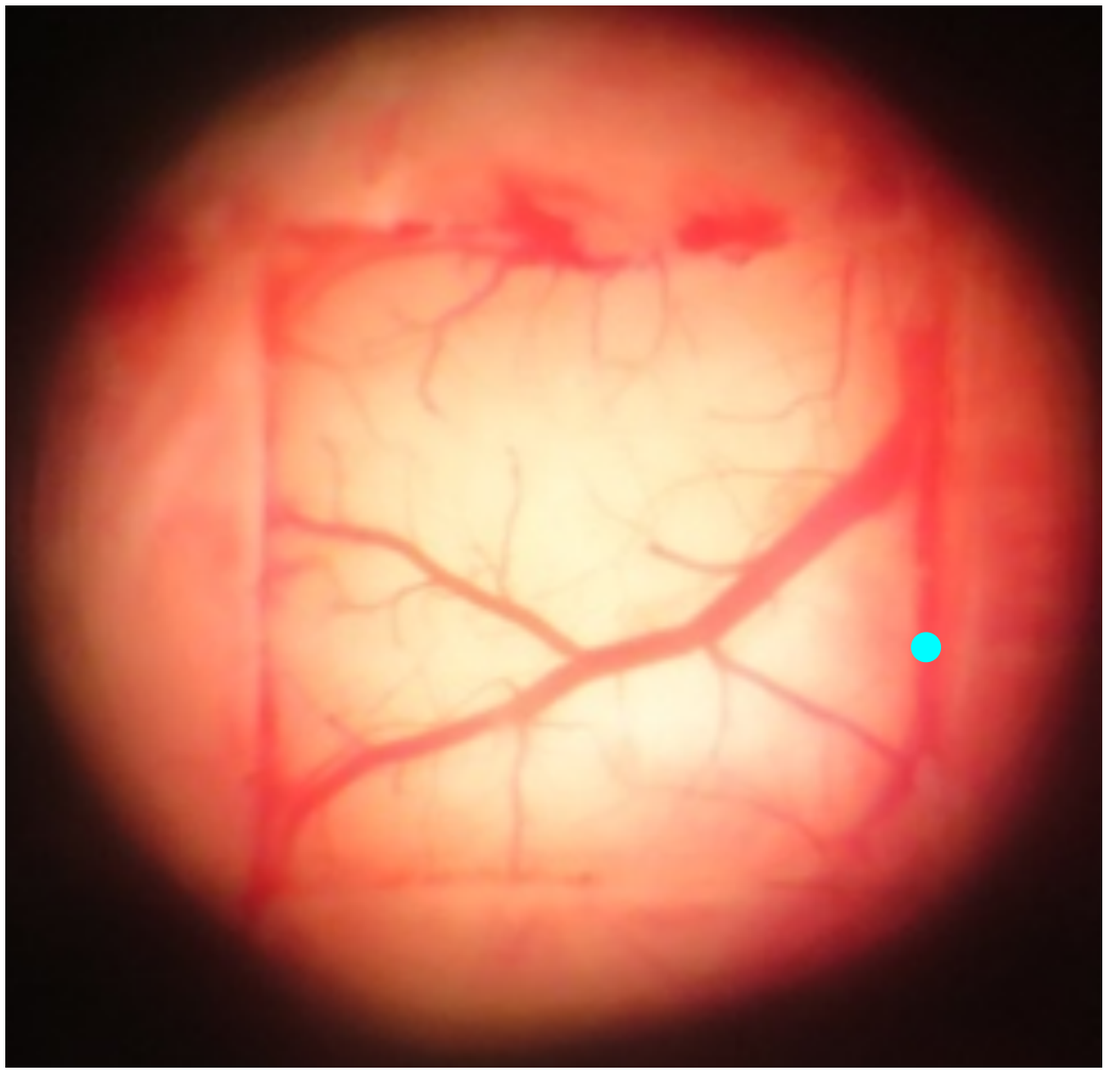
*** Different surgery from other images

4) Glass inserted into craniotomy is held with blunt needle. This image is after washing with saline.



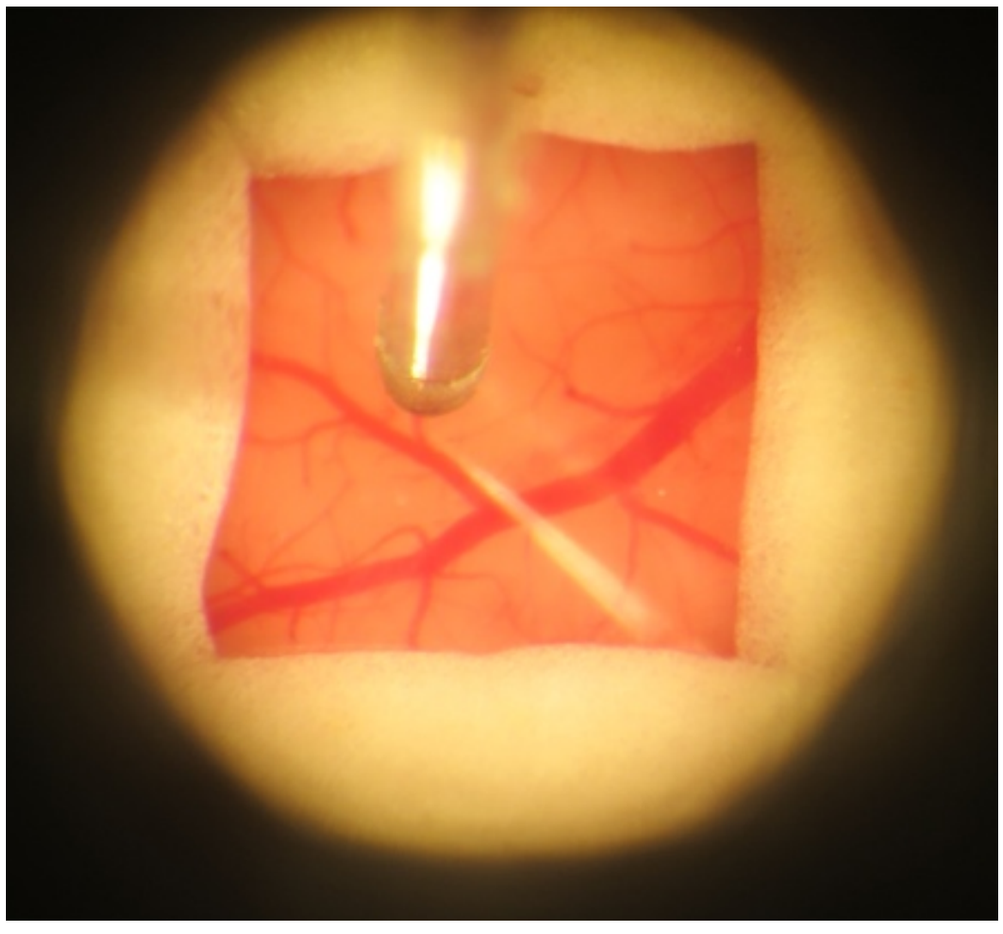
● Bregma

Glass is inserted into craniotomy



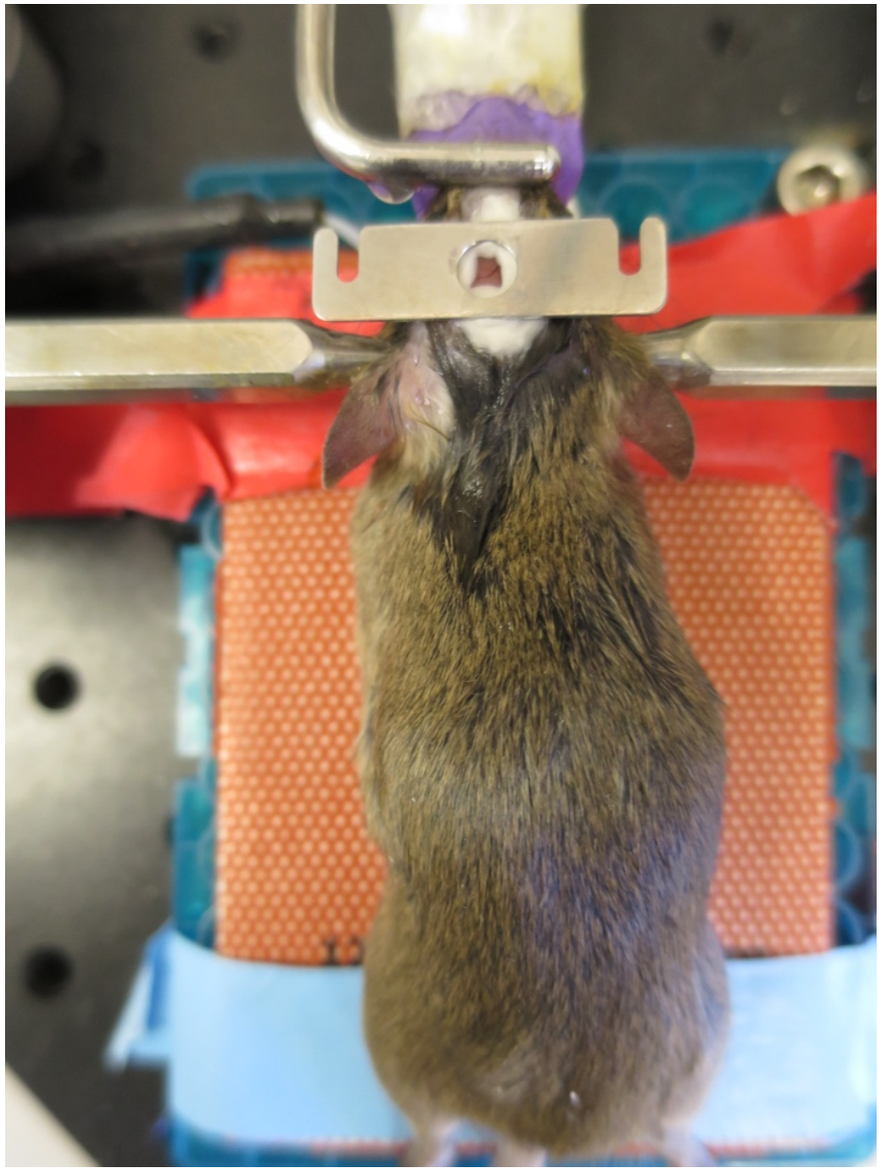
● **Bregma**

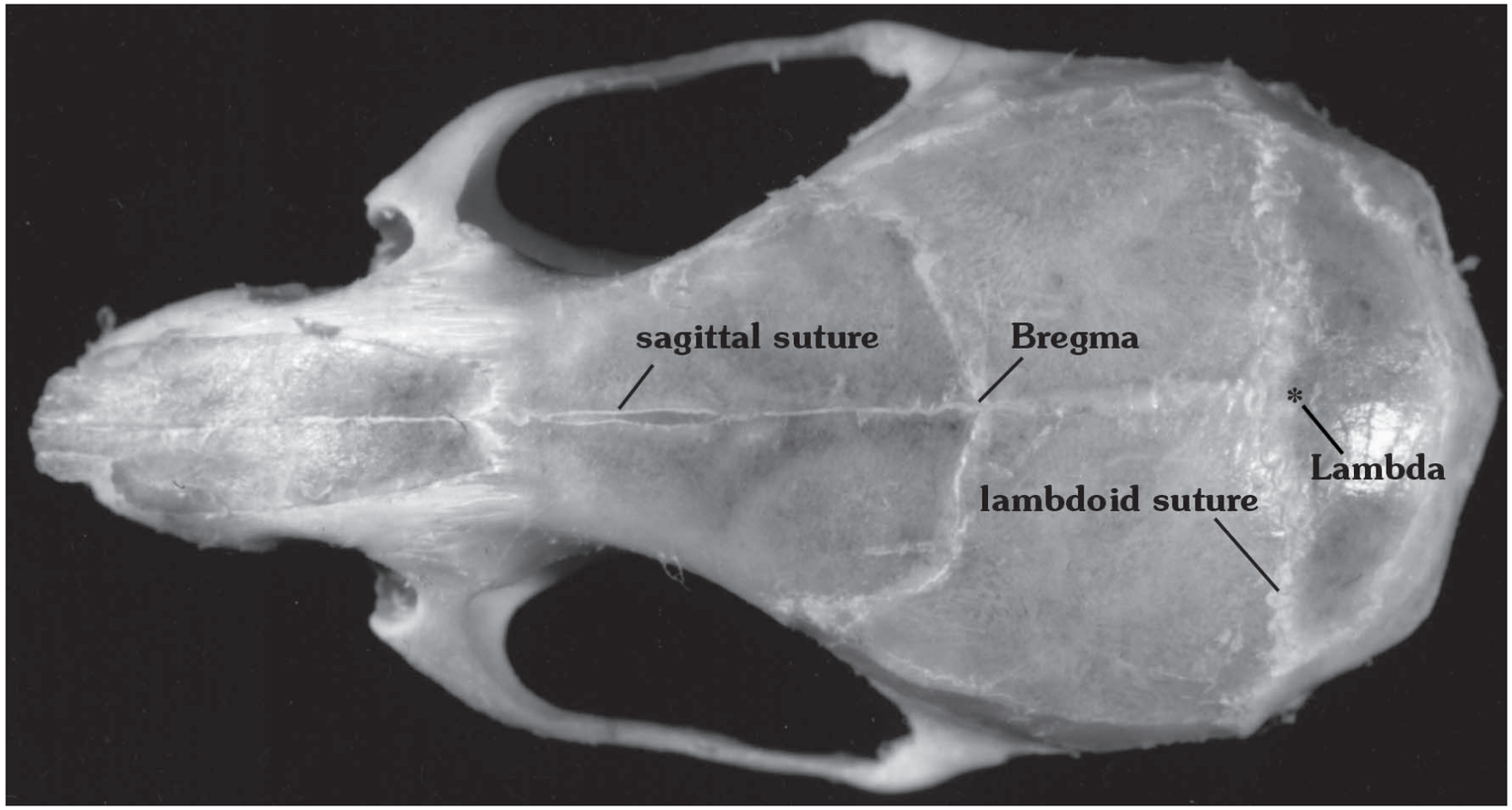
5) Apply cement around perimeter of glass. Make sure cement covers both bone and glass. Cement must completely seal the craniotomy. There can not be any ‘holes’ for air to get in or out.



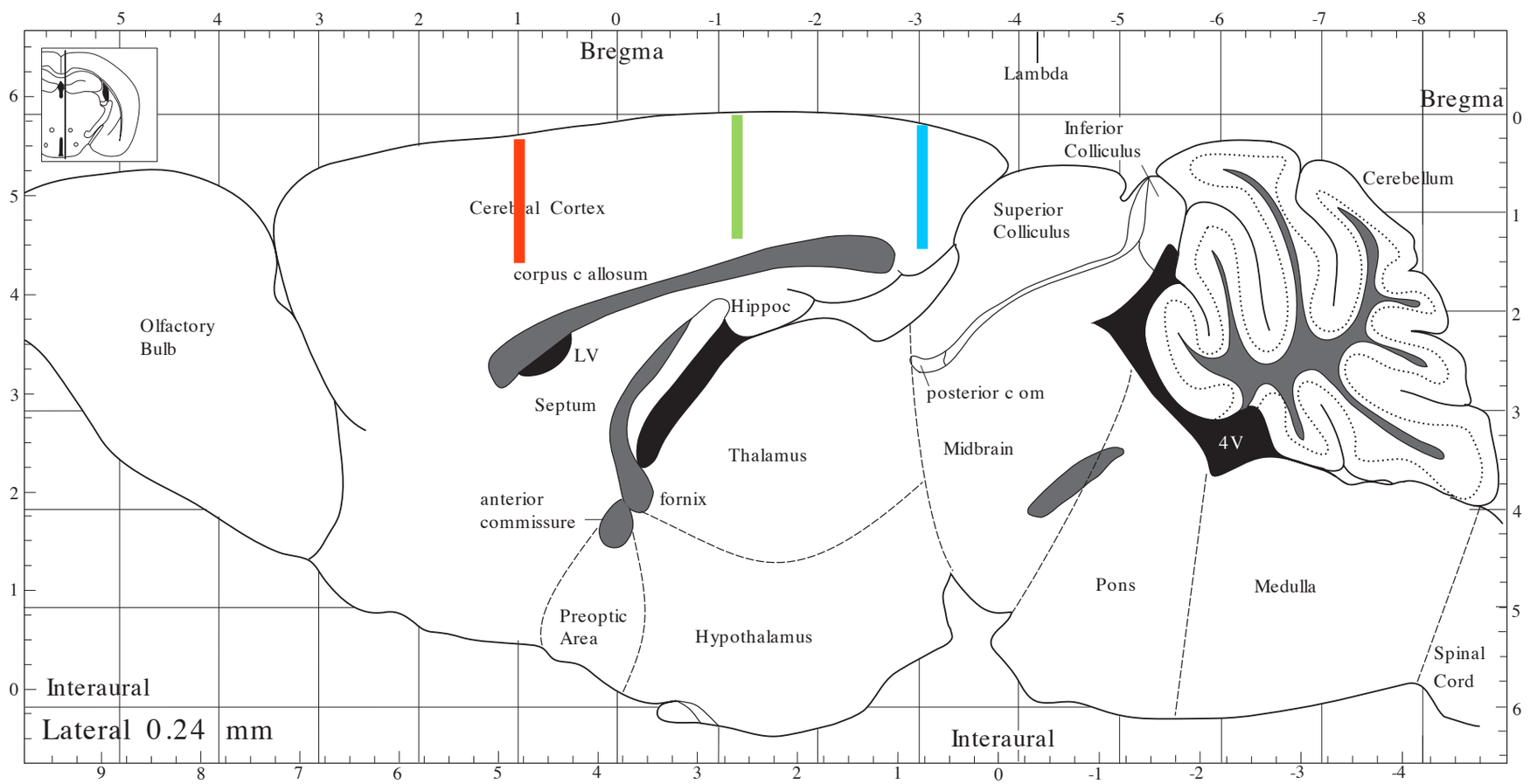
6) Cement has been applied to suture the skin and head-bar has been cemented in place.

● **Bregma**

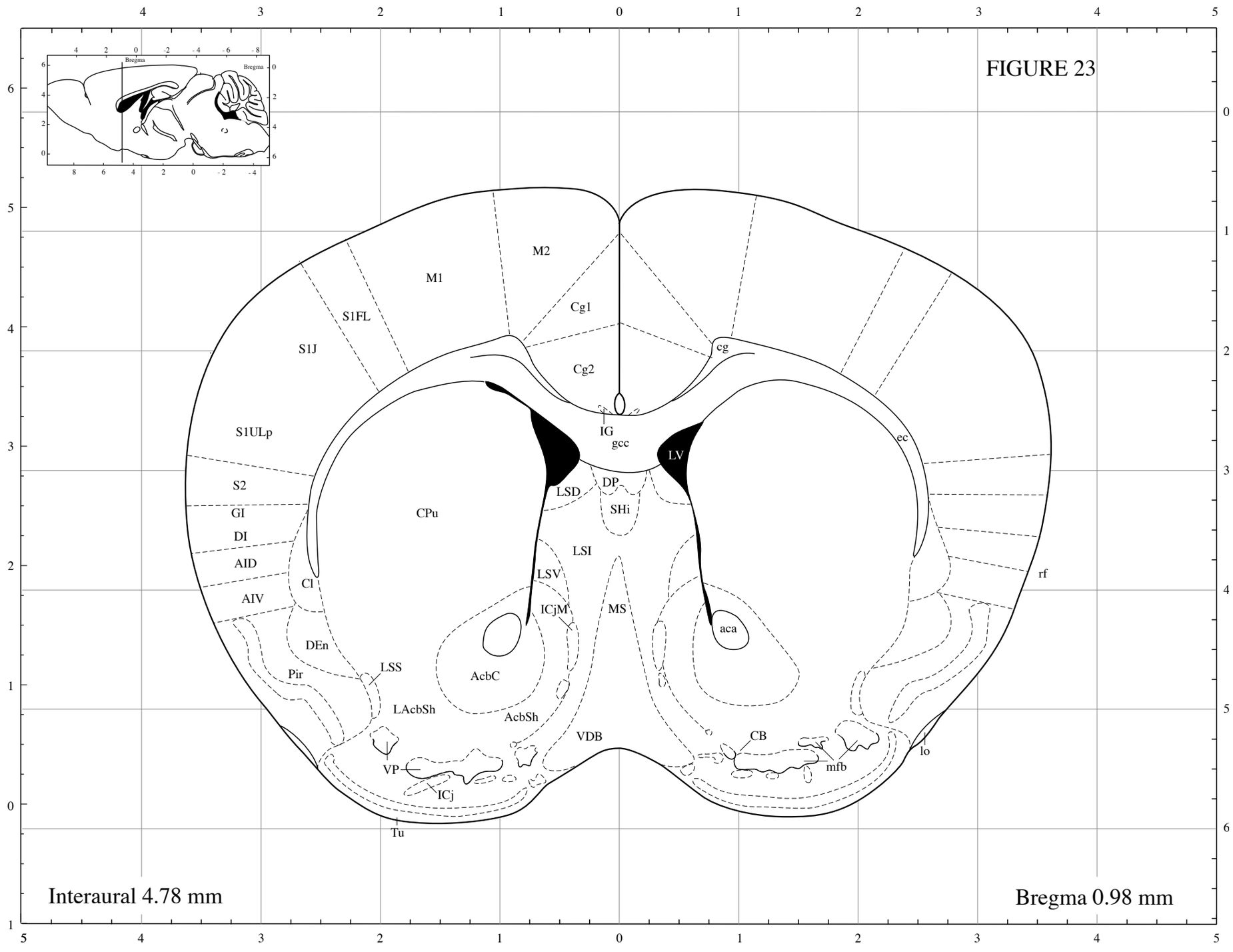




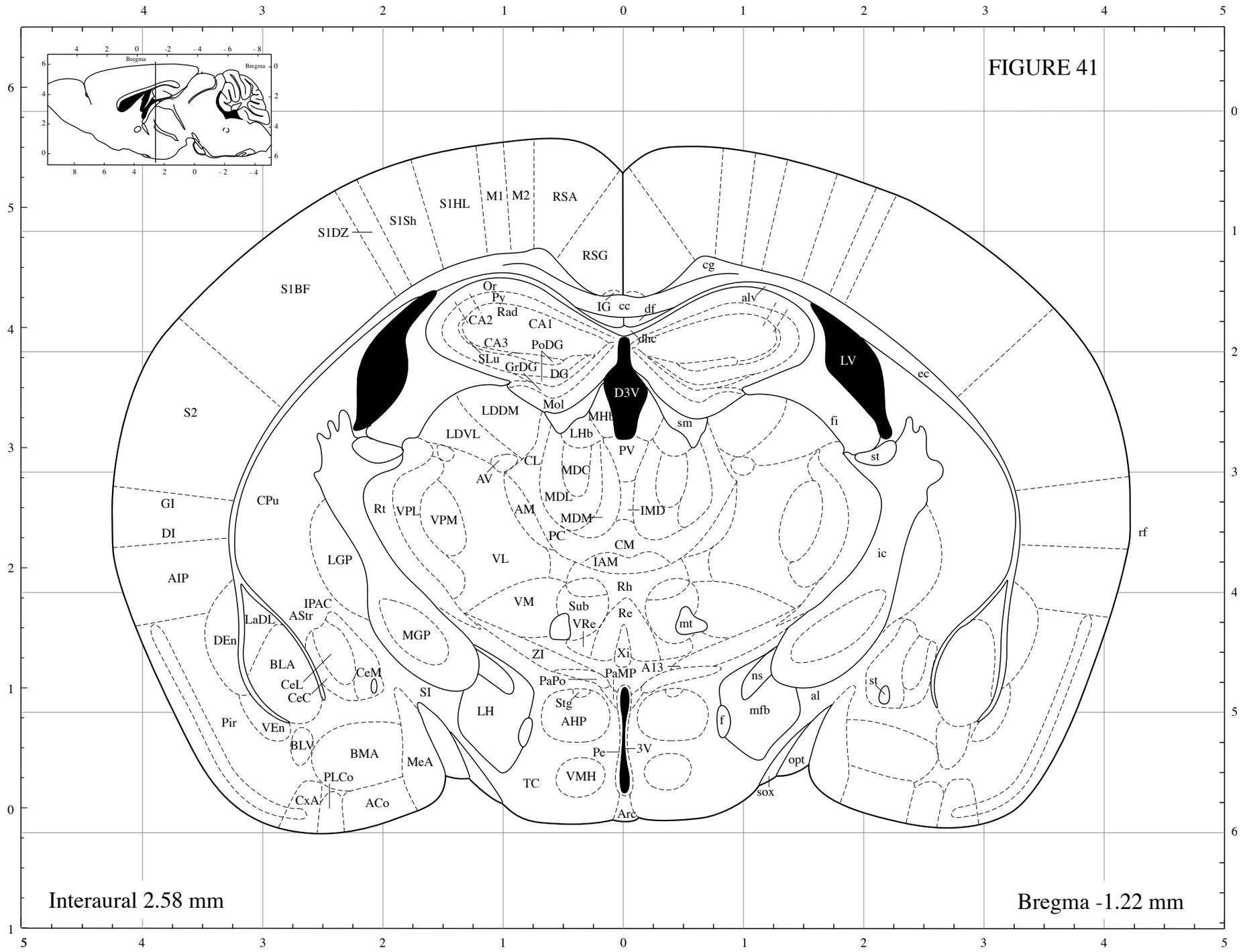
Motor Cortex
Somatosensory Cortex
Visual Cortex



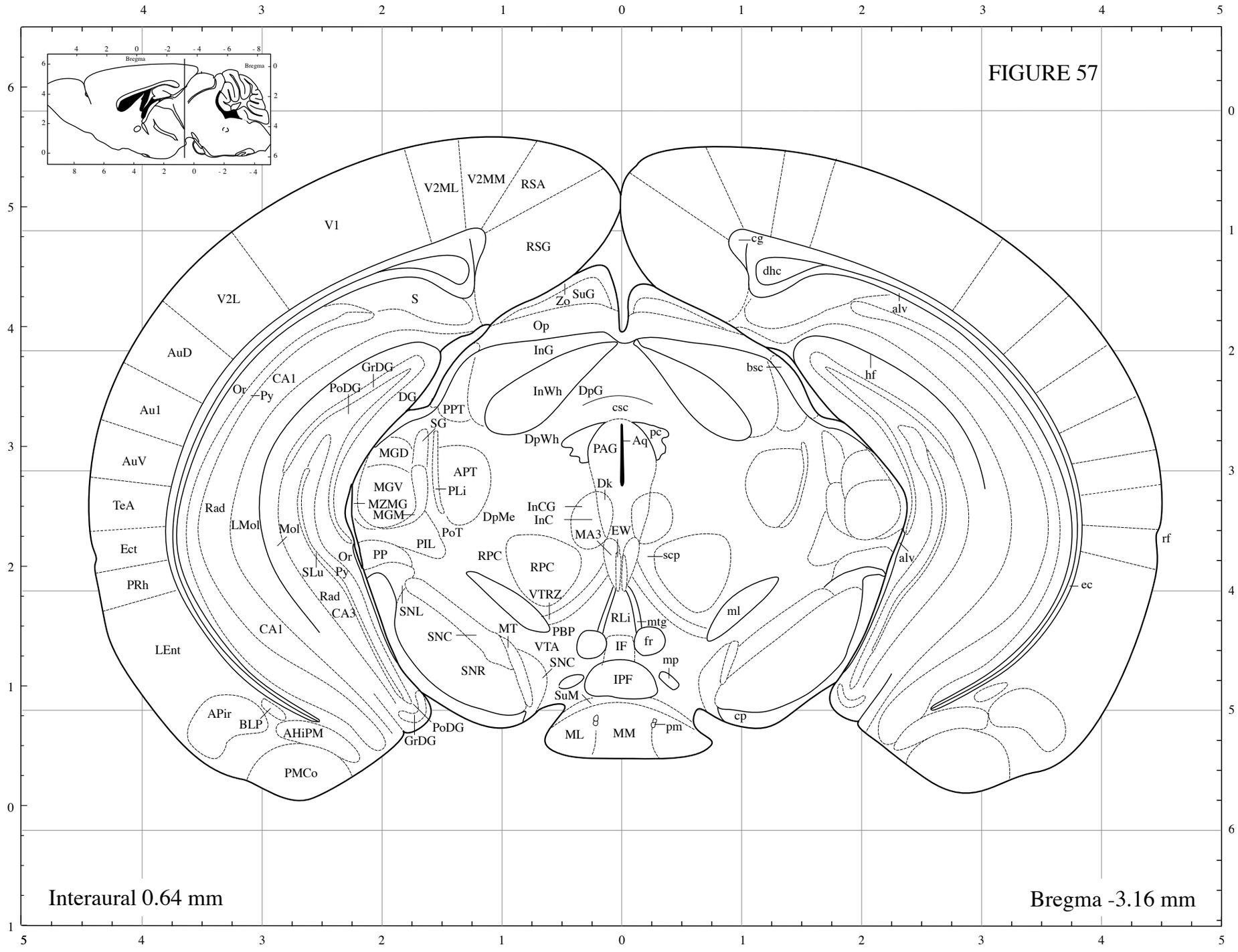
Motor Cortex



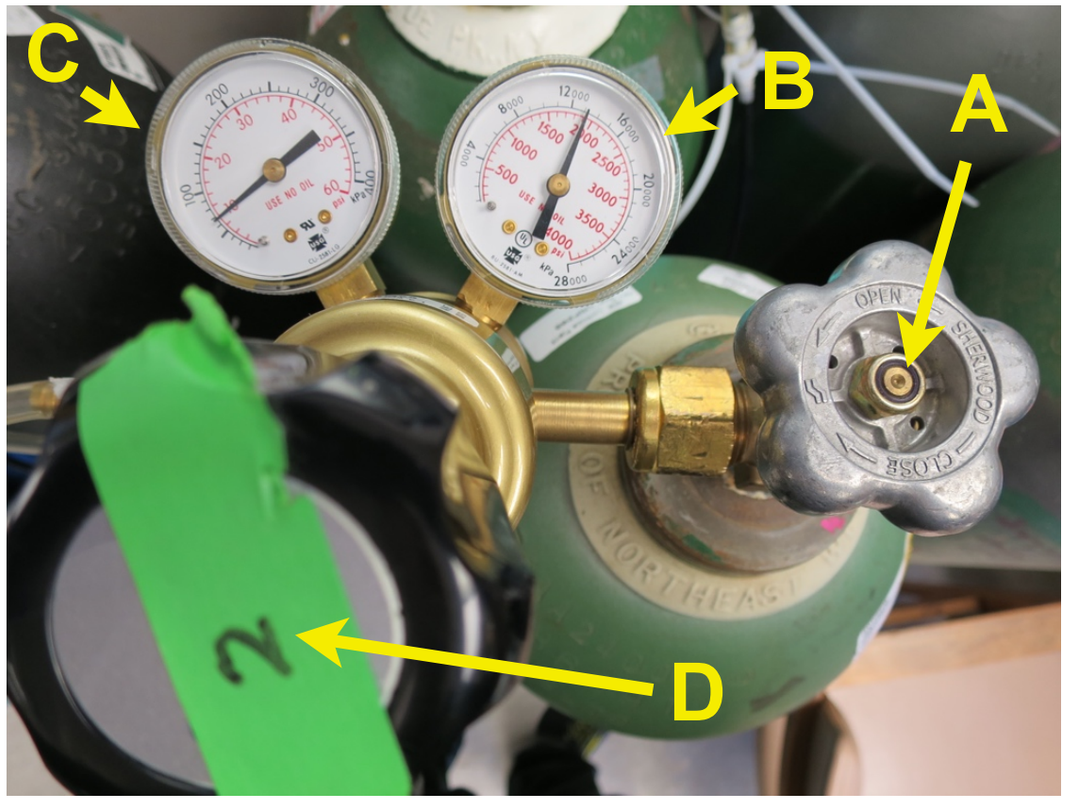
Somatosensory Cortex



Visual Cortex



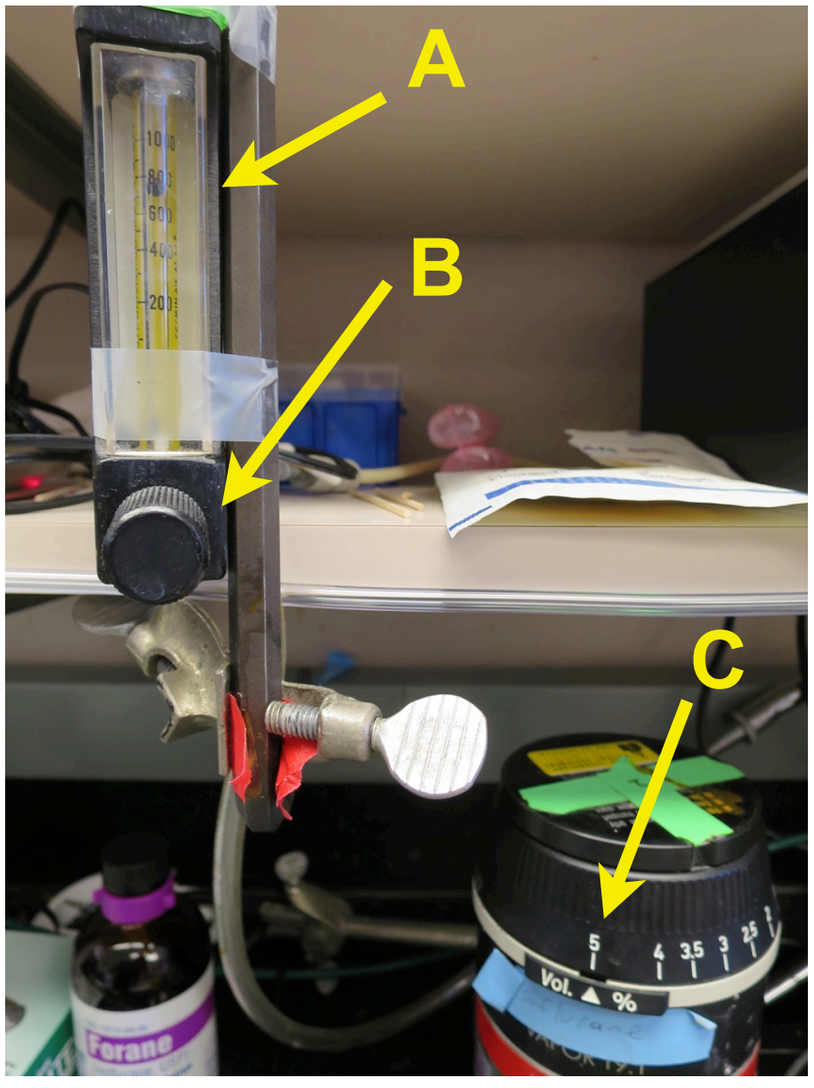
Oxygen Tank



A) Turn main Oxygen tank on and off. Right is tight. This is binary, it is either opened or closed.
B) Gauge reporting Oxygen remaining in tank.
C) Gauge reporting final output pressure.
It should be ~10 psi.
D) Adjust final output pressure, this valve has a backwards thread, right is open and left is tight. This is adjustable, opening more (to the right) will increase output pressure in (C).

Oxygen in tank gauge (right)
0-4000 psi (full is 2000-2500 psi)
0-28,000 psi
Output gauge (left)
0 - 60 psi (should be set to ~10 psi)
0 - 400 kPa

Oxygen Regulator and Isoflurane Unit



A) Oxygen regulator should be ~800 xxx.
B) Adjust this level with black knob.
C) Set the percentage of isoflurane.
5% for induction
~1.5% for maintenance.
0 is off

Oxygen Regulator