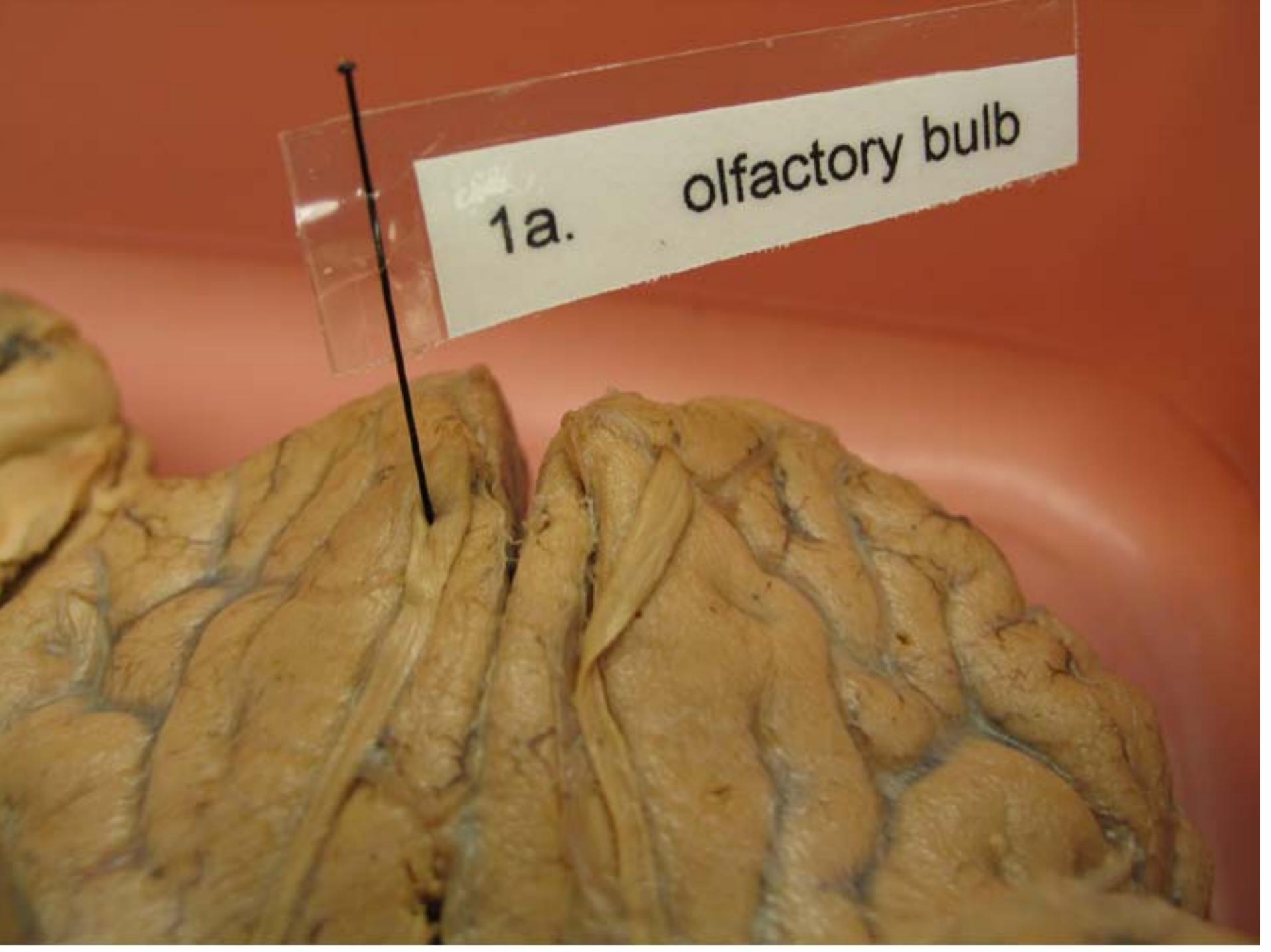


MEDICAL NEUROSCIENCE
NOP-ANTR-PSL-RAD 552

Forebrain Laboratory

Objectives 2005

Final Version



1a. olfactory bulb

1a. olfactory bulb

1b. olfactory tract

optic tract

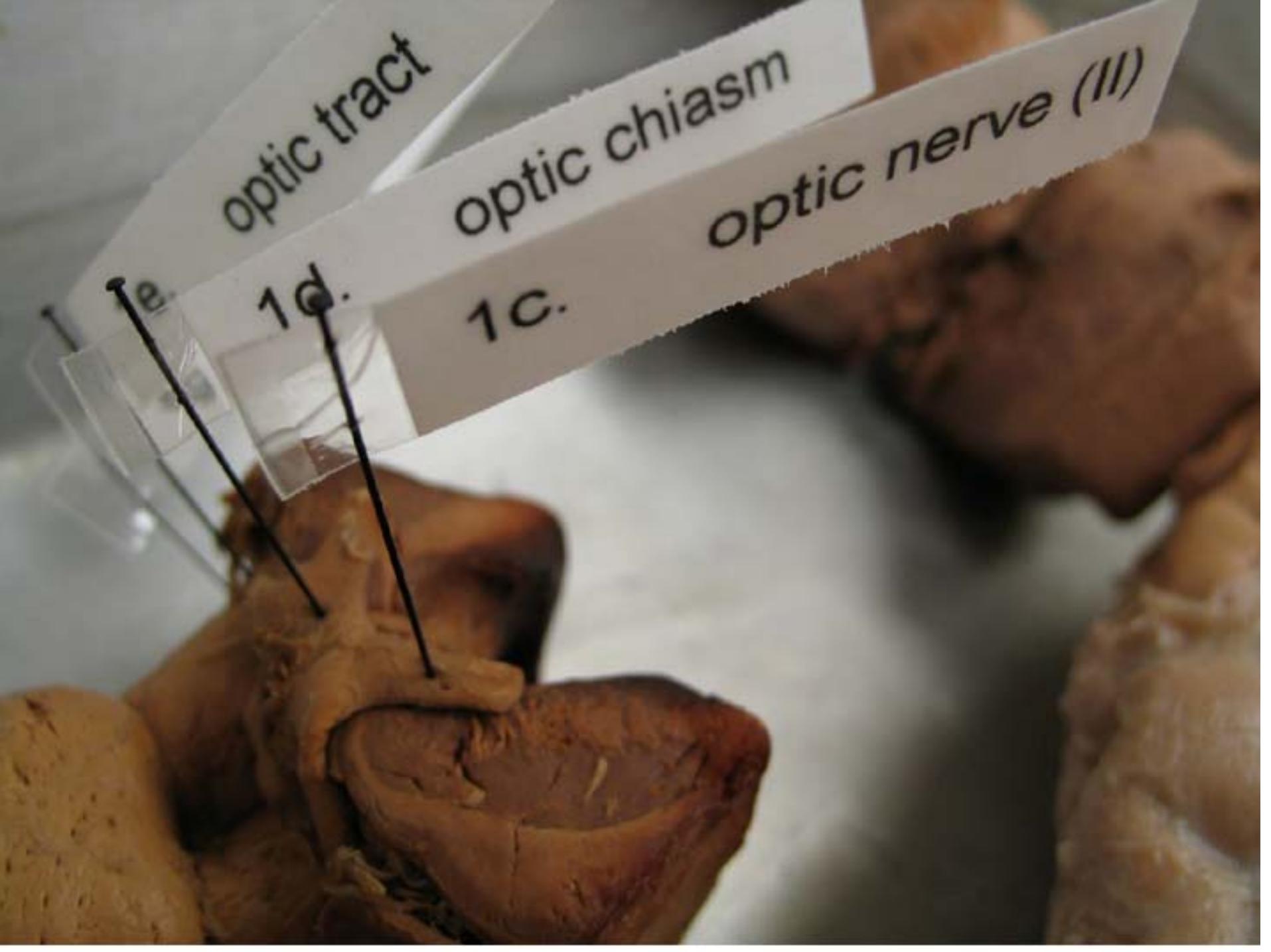
optic chiasm

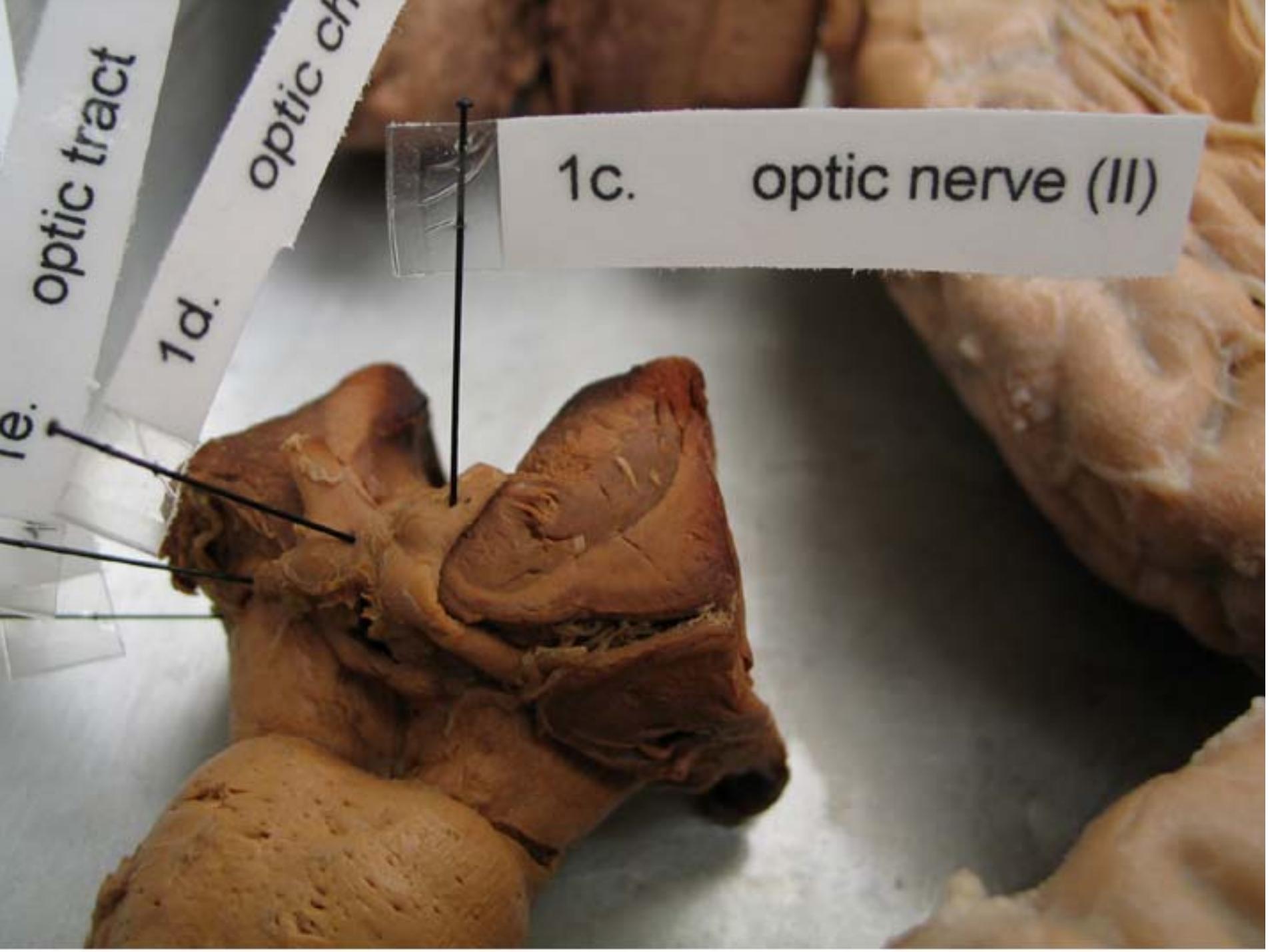
optic nerve (II)

1e.

1d.

1c.





optic tract

optic chiasm

1d.

1c.

optic nerve (II)

e.

1d.

optic chiasm
-μic nerve

lateral geniculite

optic tract

1e.

1d.

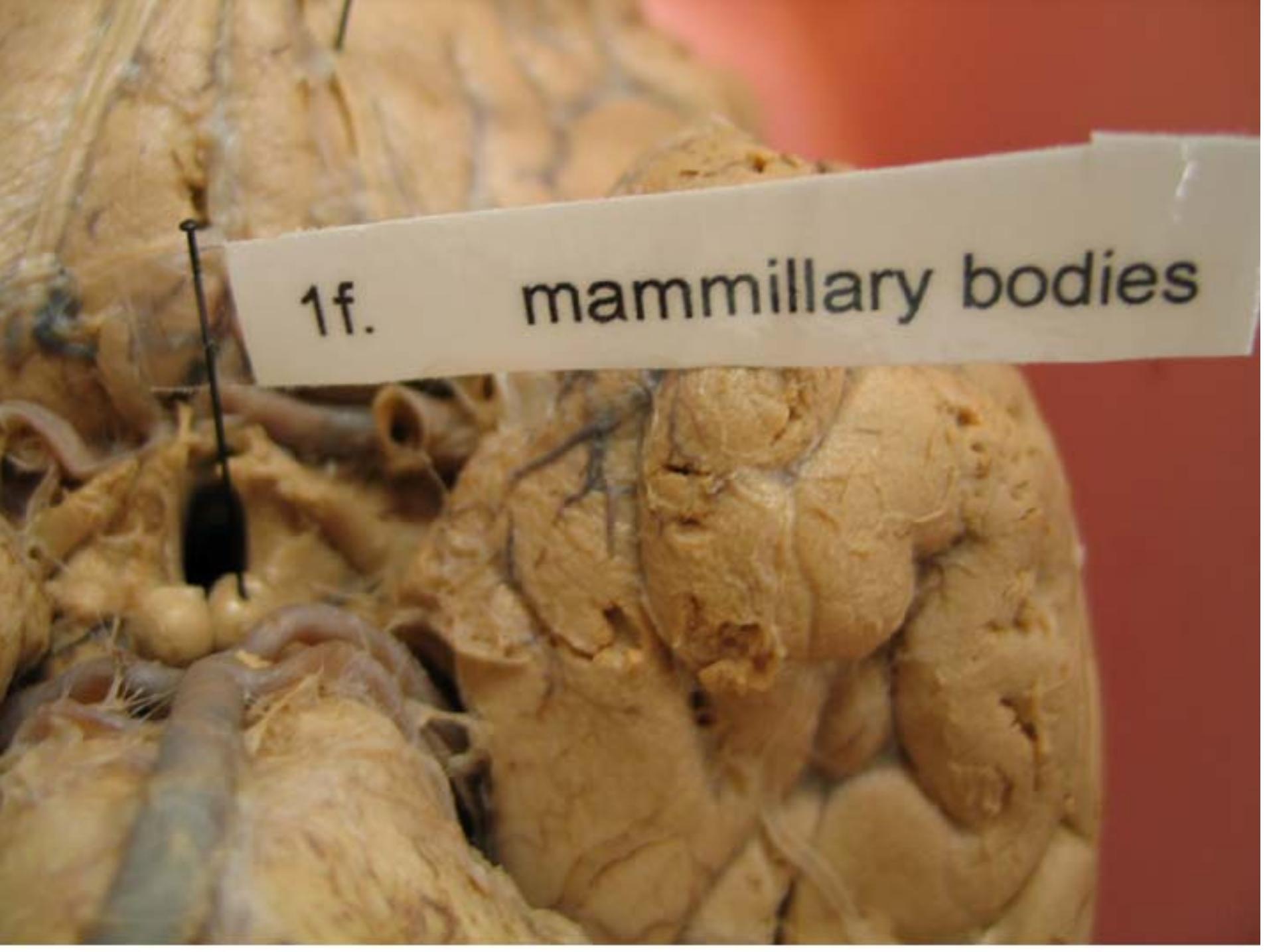
I
optic chiasm

-nuc nerve



1f.

mammillary bodies



1f.

mammal

lateral geniculate body

1g.



lateral

19.



1h. medial geniculate body

1h1. **brachium of inferior colliculus**

1h.

medial gen.

1h1.

brachium of i



Cerebral aqueduct

1j. *third ventricle*

1i.

1. pineal body



1j. *third ventricle*

1j1. *choroid plexus*

pineal body

The choroid plexus in the 3d ventricle lies on the posterior portion of the roof of the ventricle.

1j1. choroid plexus

1j. third ventricle

1k.

lamina terminalis

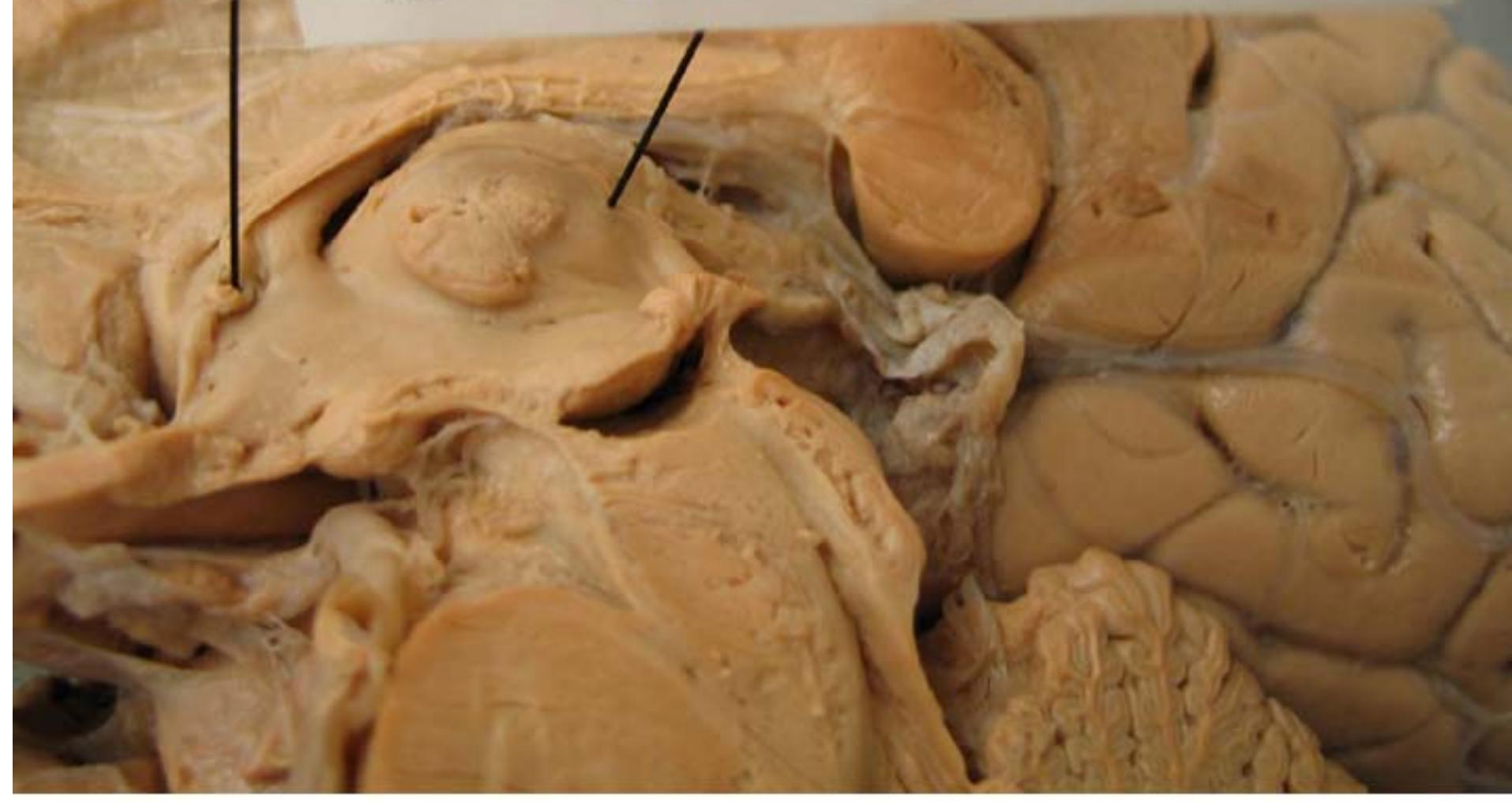


The lamina terminalis extends between the anterior commissure and the optic chiasm.

1k. *lamina ter*

11.

anterior commissure

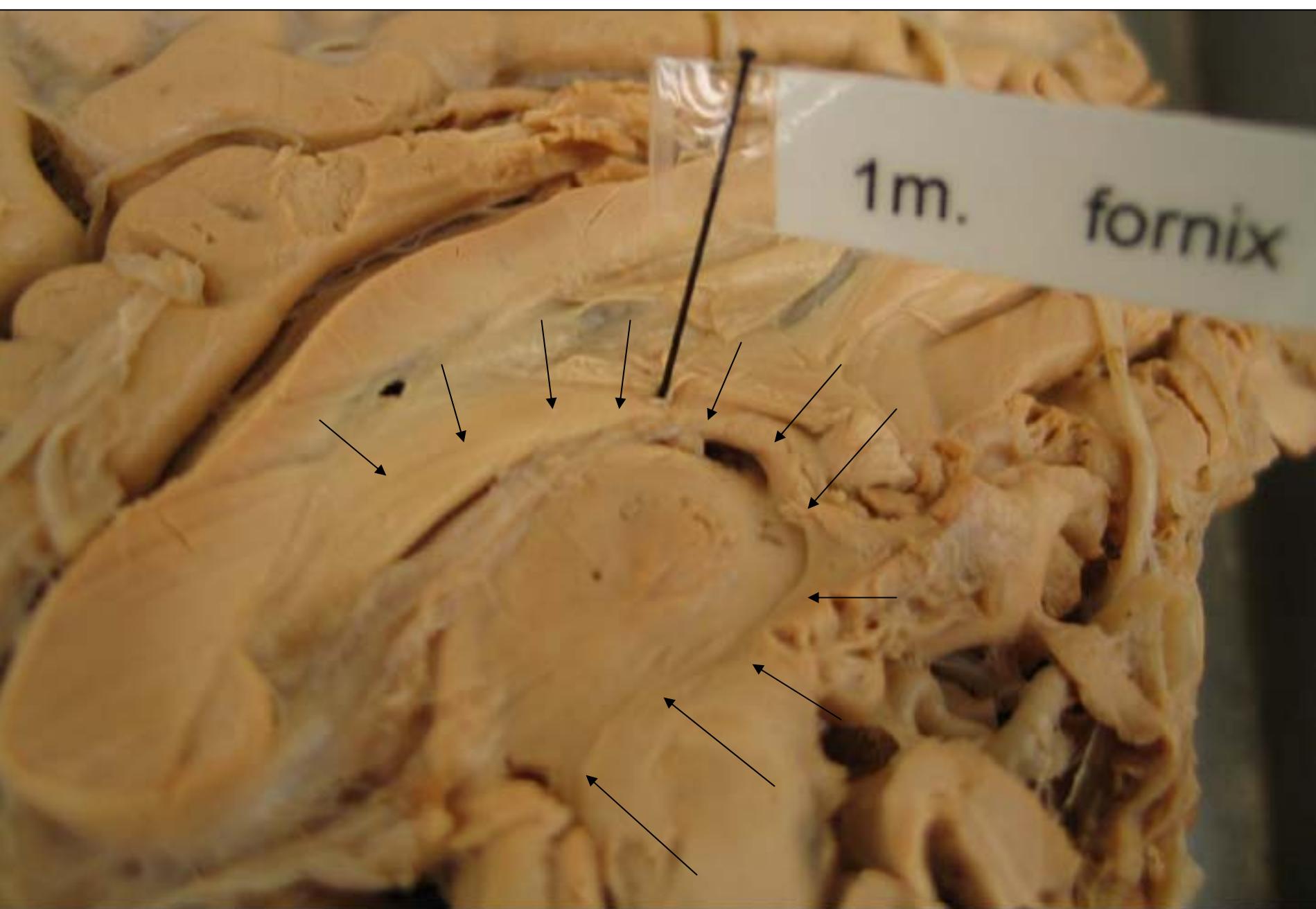


11.

anterior c

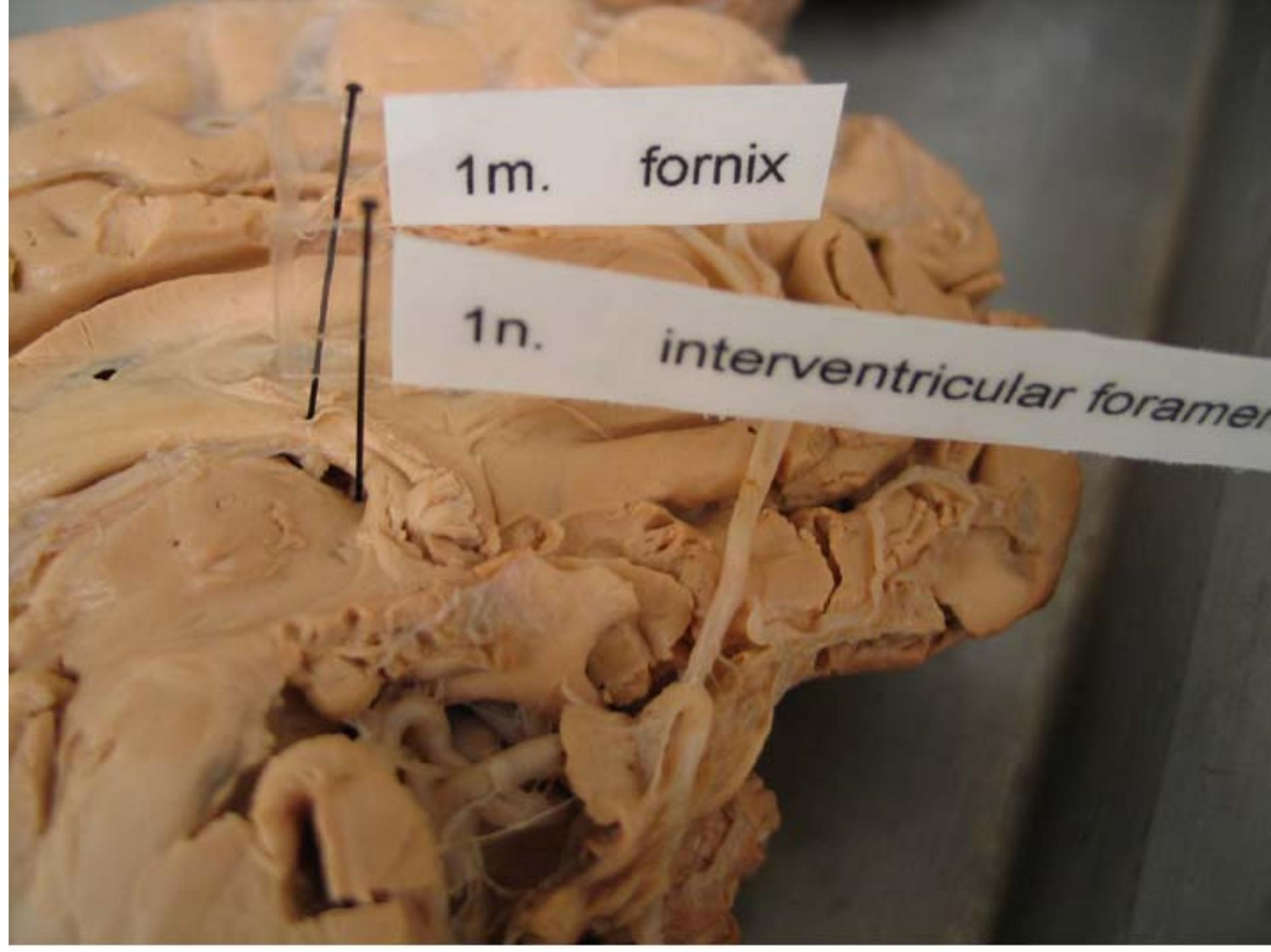


The fornix is a bundle of fibers which contains axons coming from the hippocampus, to the hippocampal commissure, behind the anterior commissure, through the hypothalamus, to the mammillary bodies.



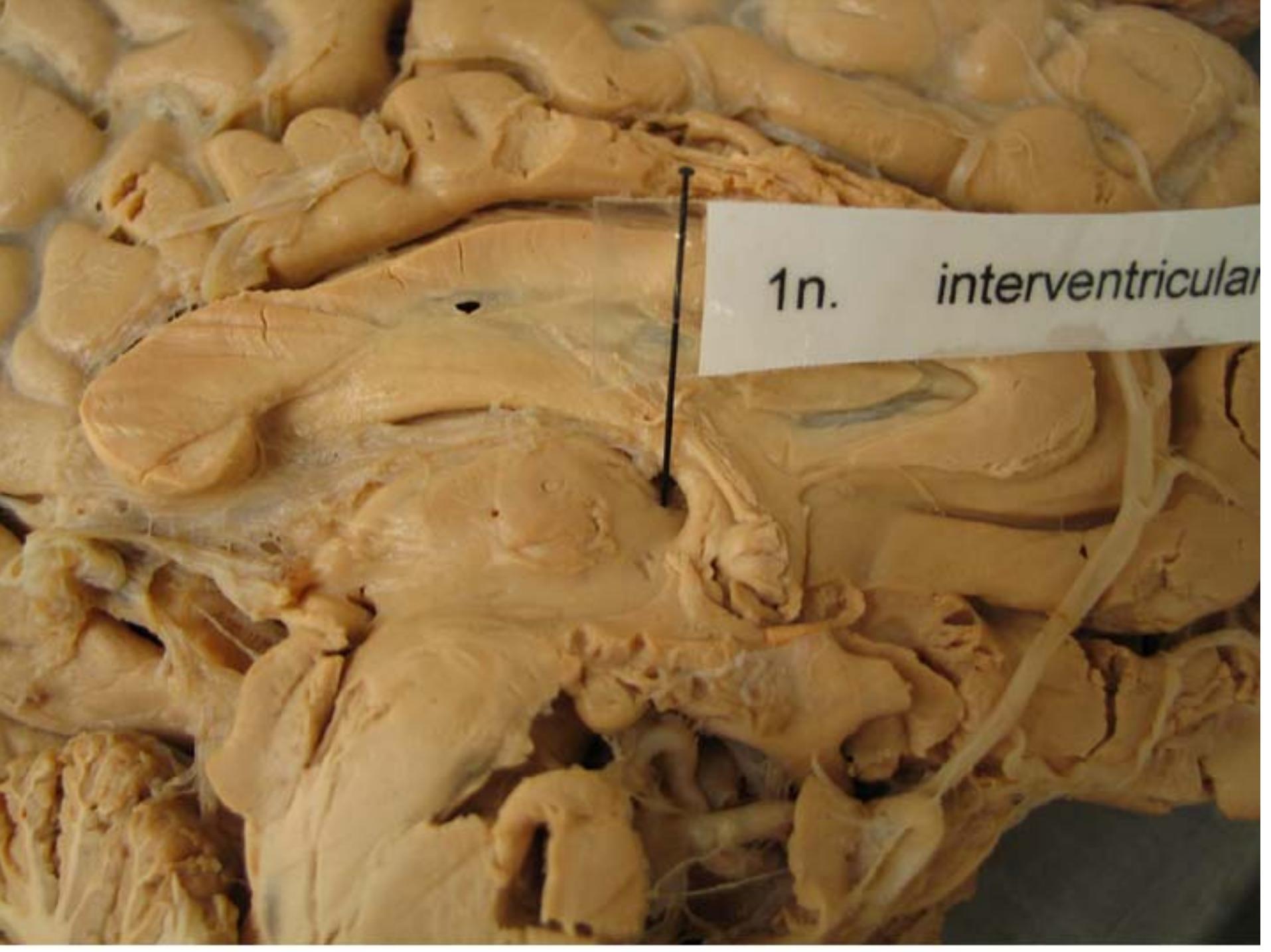
1m. fornix

This image shows a close-up view of a preserved brain specimen, specifically highlighting the fornix. The fornix is a U-shaped bundle of fibers that connects the two hippocampal regions. It is visible as a thin, curved structure in the center of the image. A white rectangular label is positioned in the upper right area, containing the text "1m. fornix". Several black arrows point from this label towards the fornix. The surrounding tissue is a pale yellowish-tan color.

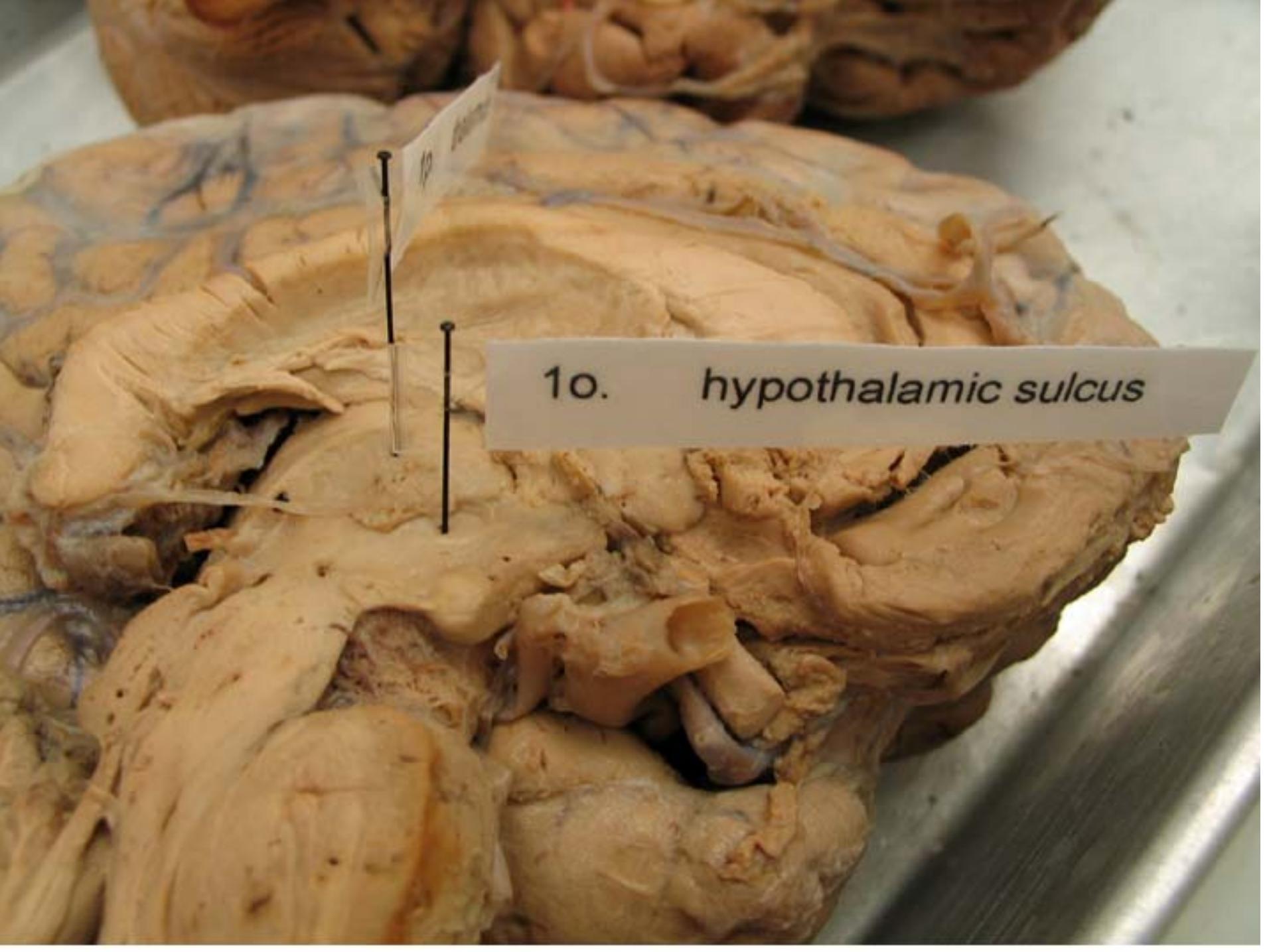


1m. fornix

1n. *interventricular foramen*



1n. *interventricular*



A photograph of a preserved brain specimen, likely a rhesus macaque, viewed from a lateral perspective. The brain is yellowish-tan with visible gyri (ridges) and sulci (grooves). A white rectangular label is pinned to the brain with two black pins. The label contains the number '10.' followed by the text 'hypothalamic sulcus' in a cursive font.

10. *hypothalamic sulcus*

1p. thalamus

1o. *hypothalamic sulcus*

1s. hypothalamus



1p. *thalamus*

1q.

interthalamic adhesion (*massa intermedia*)

1q.

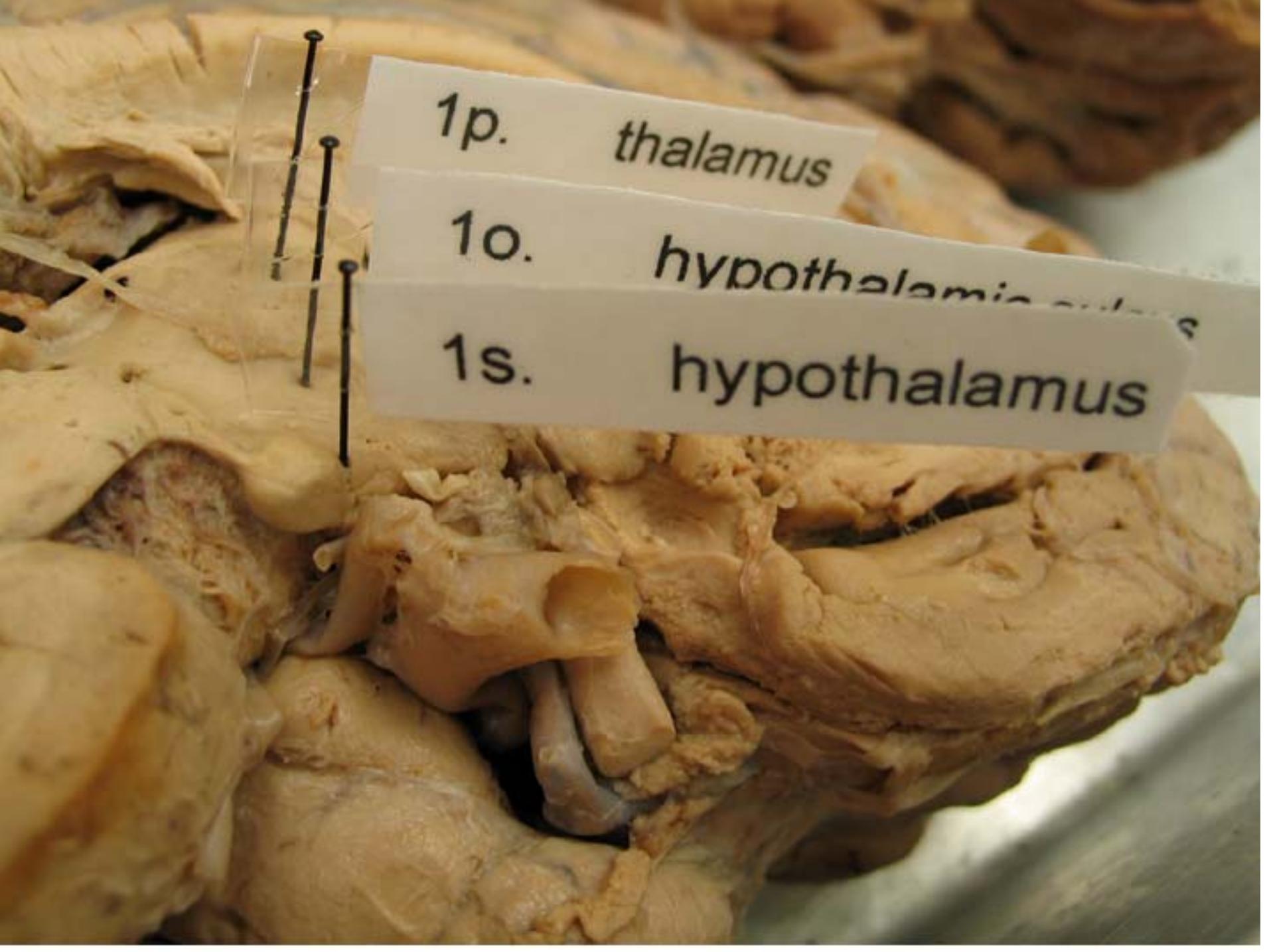
interthalamic adh.

1r.

pineal body

1r.

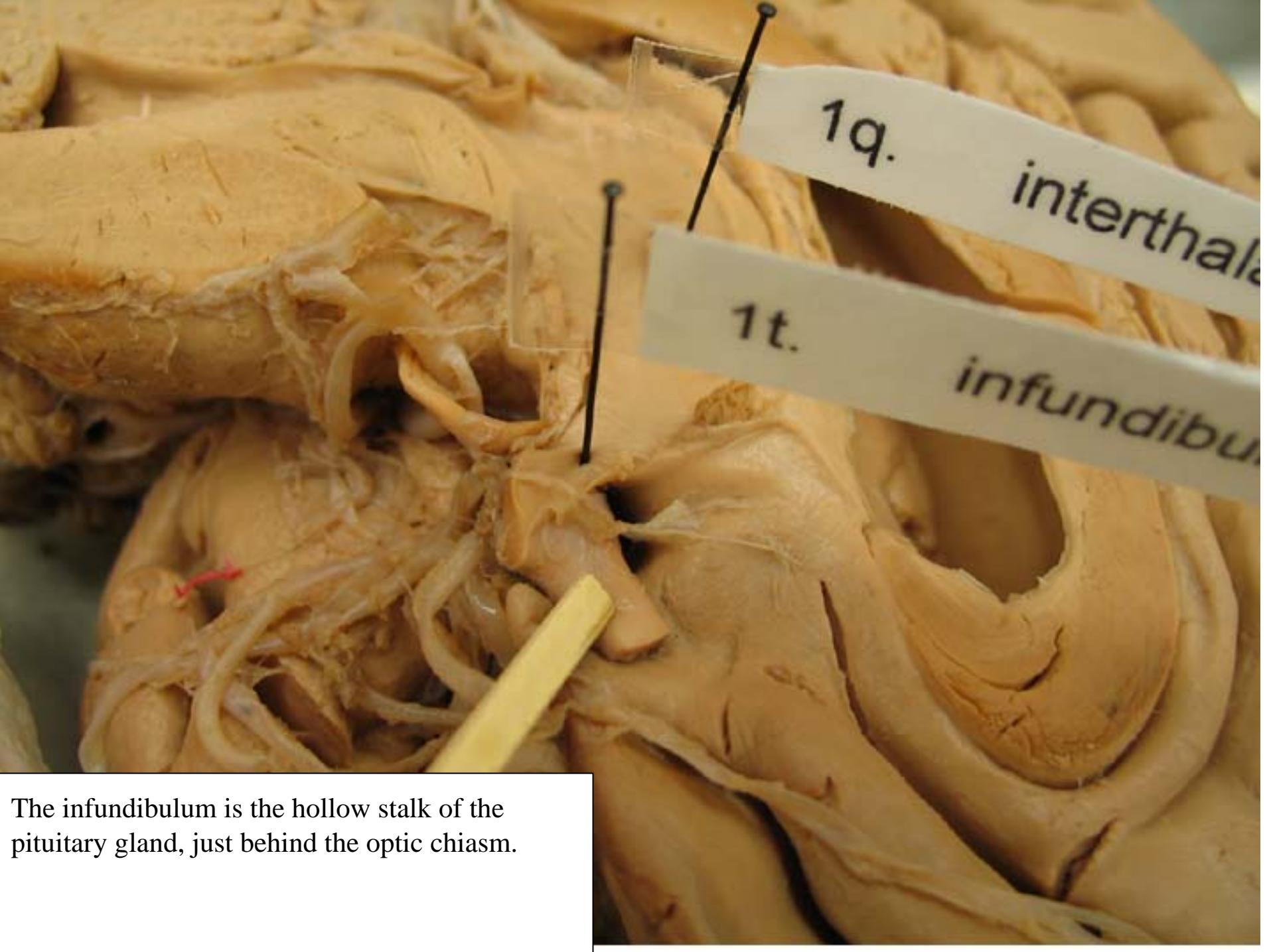
pineal body



1p. thalamus

1o. hypothalamus

1s. hypothalamus



The infundibulum is the hollow stalk of the pituitary gland, just behind the optic chiasm.

1t.

infundibulum

The stria medullaris is a white bundle of myelinated fibers seen on the wall of the third ventricle above the massa intermedia

1u.

stria medullaris thalami



1u.

stria medulla



2a. frontal lobe

2b. parietal lobe

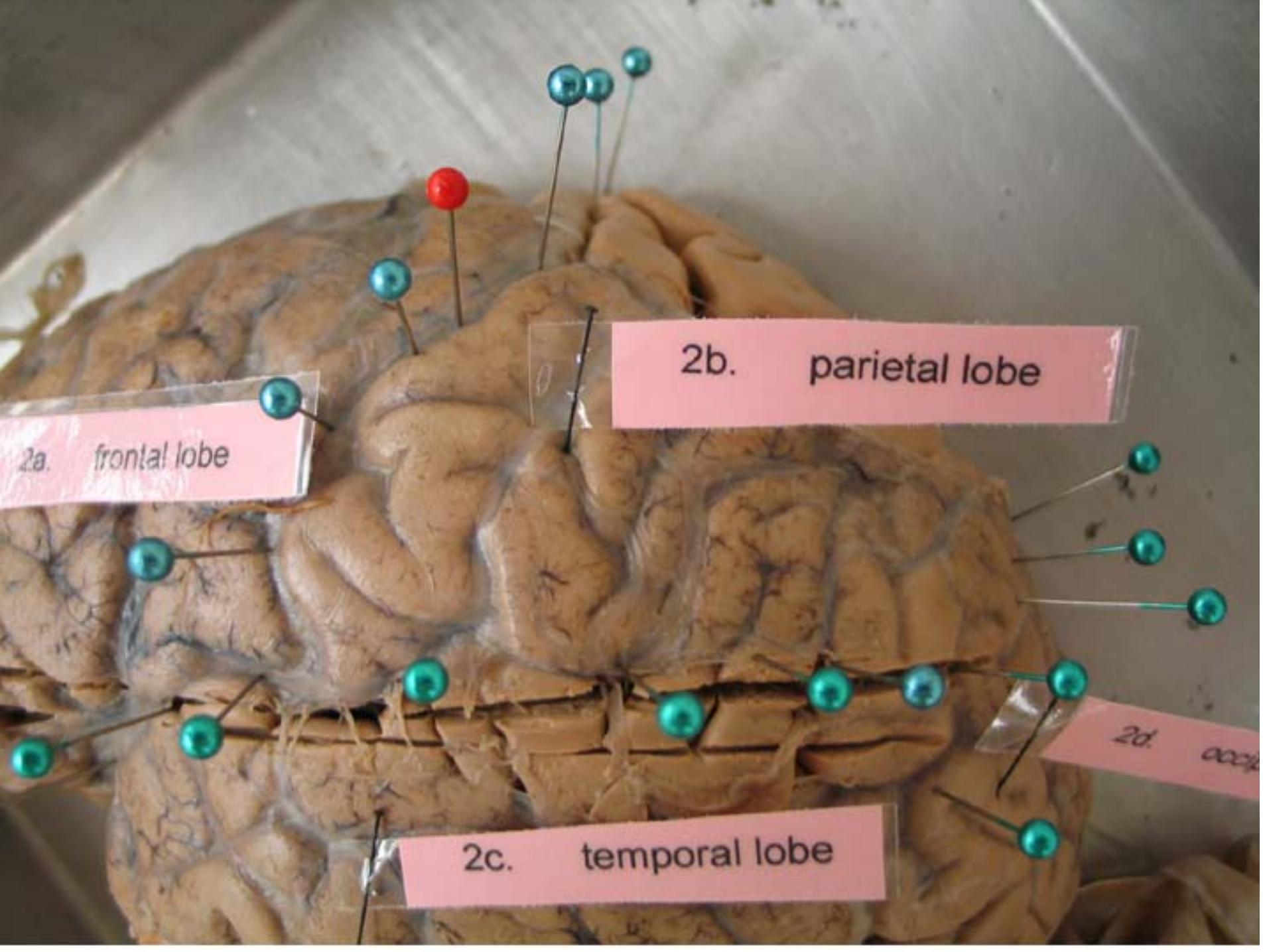
2c. temporal lobe

2d. occipital lobe

2a. frontal lobe

2b. pa

2c. temporal



2c. temporal lobe

2d

a

2d.

occipital lobe



2e.

insula

2e'

2e.

insula

$2e''$

$2e$

insula



2f.

frontal p

24

frontal pole

2g. occipital pole

2f. frontal pole

2h. temporal pole

29.

occipital pole

2h. temporal pole

2f. front

2f. frontal pole



3a.

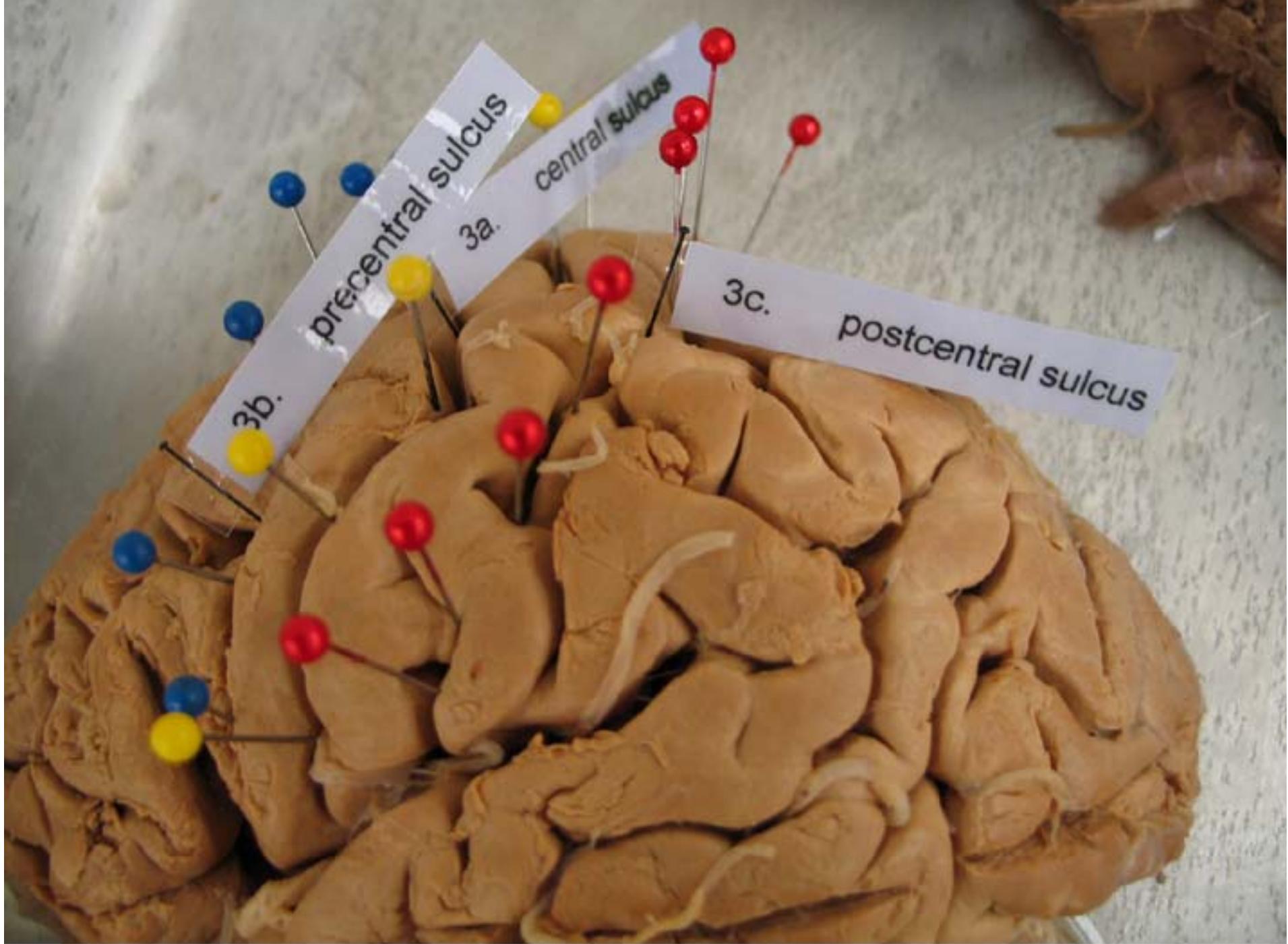
central sulcus





3b.

precentral sulcus

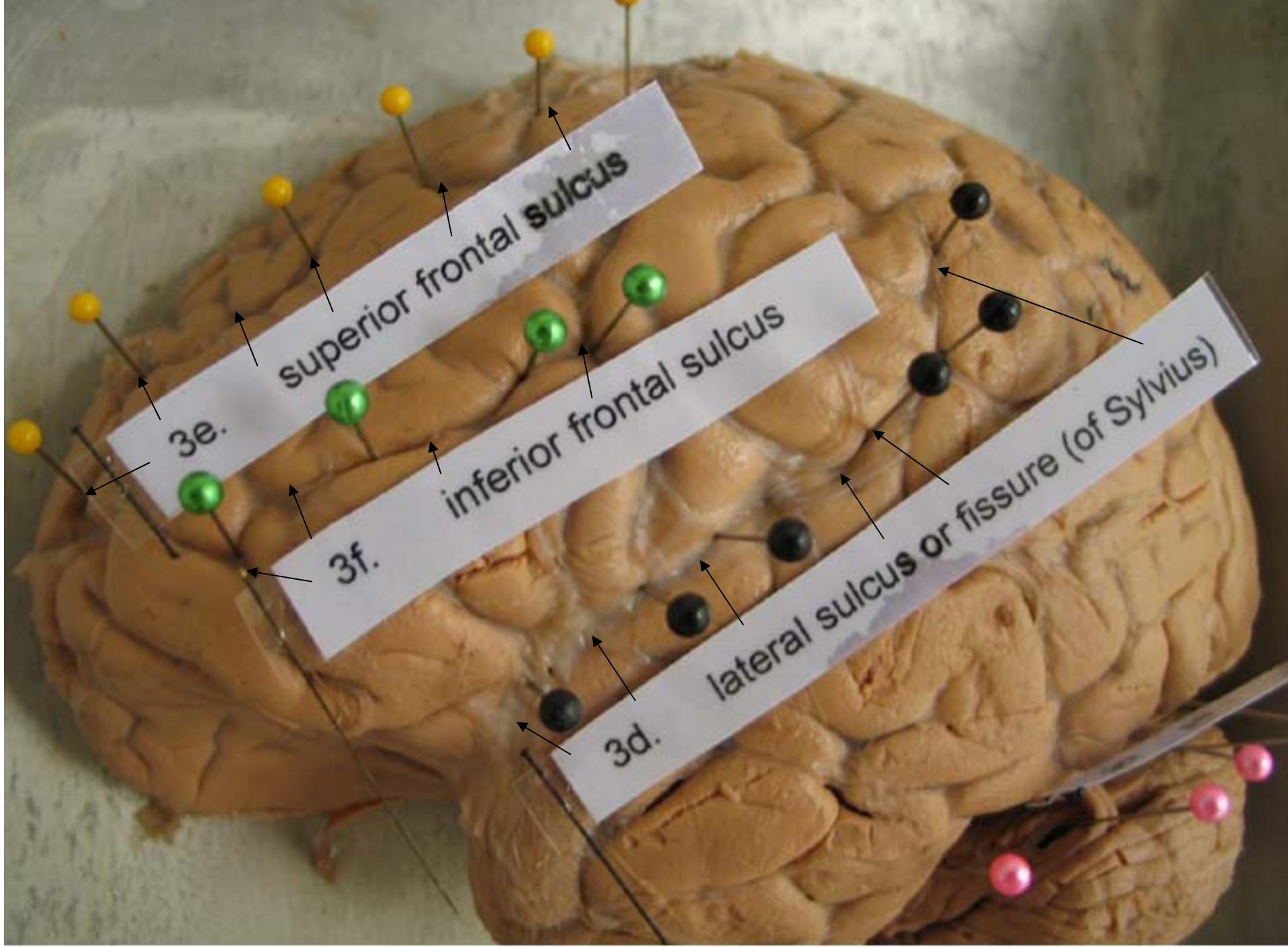


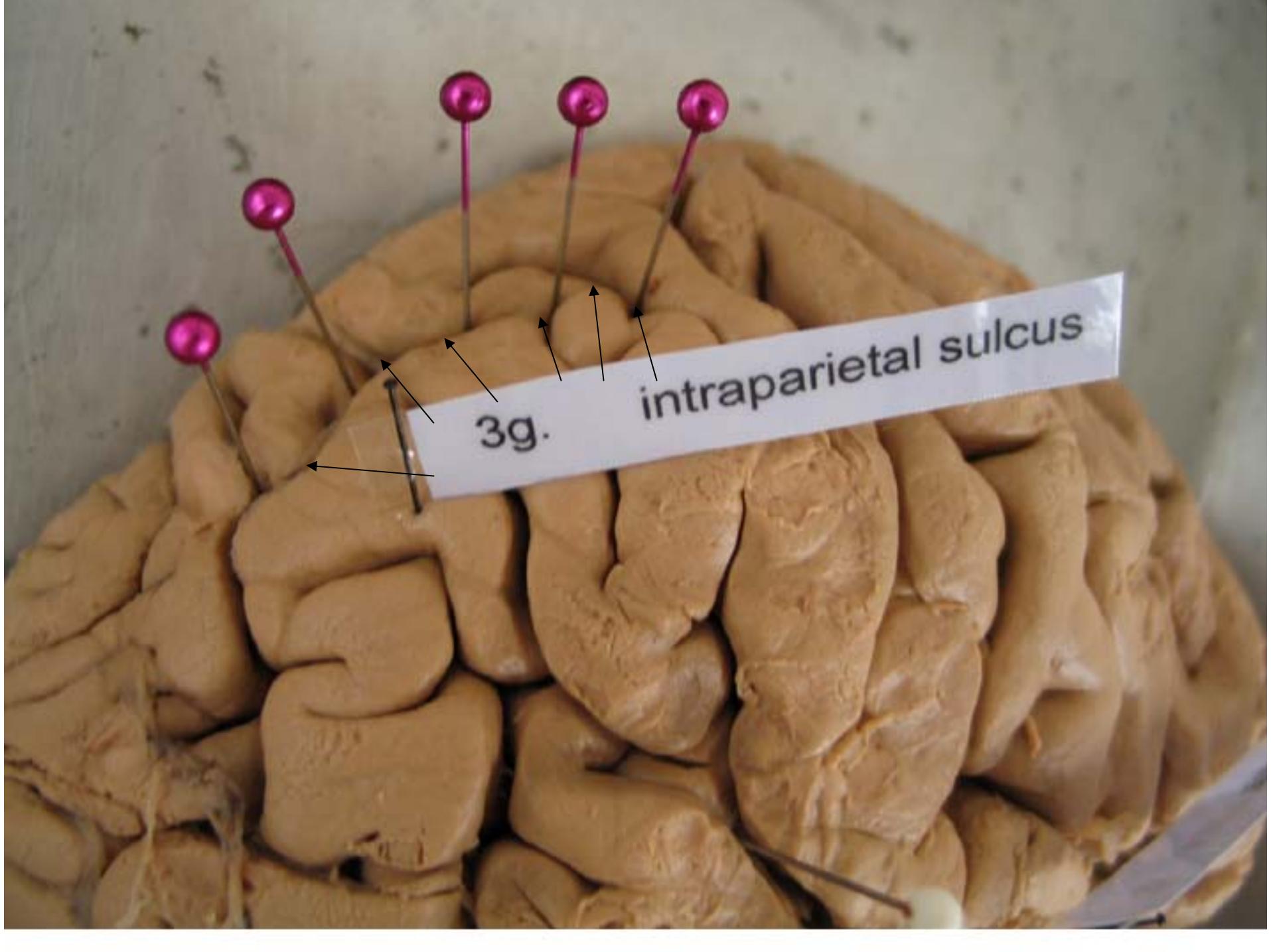
3f.

inferior horn of lateral ventricle

3d.

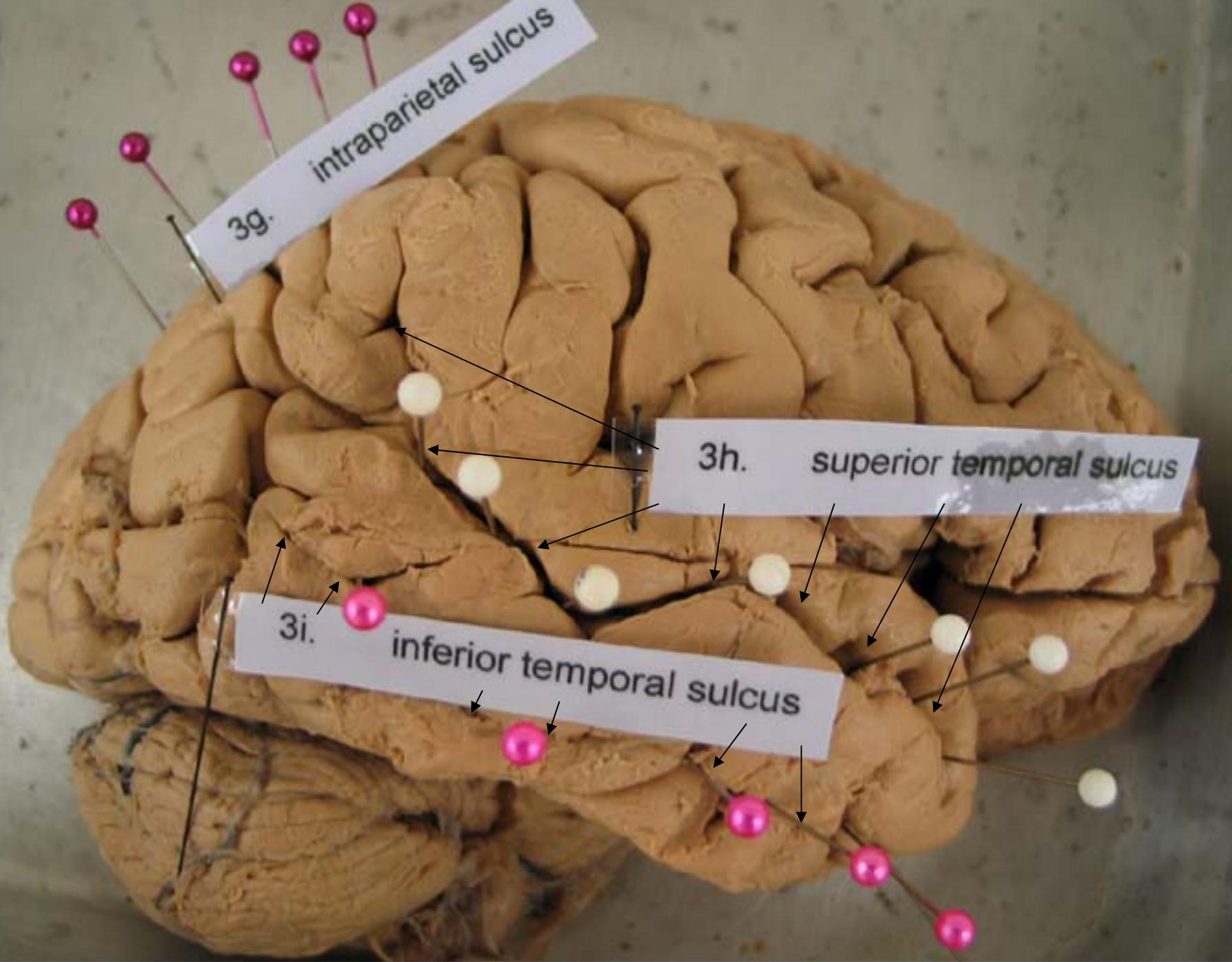
lateral sulcus or fissure (of Sylvius)





3g.

intraparietal sulcus



3h. superior temporal sulcus

3i. inferior temporal sulcus

3m.

cingulate sulcus

3k.

parieto-occipital sulcus

3j.

calcarine sulcus



3k.

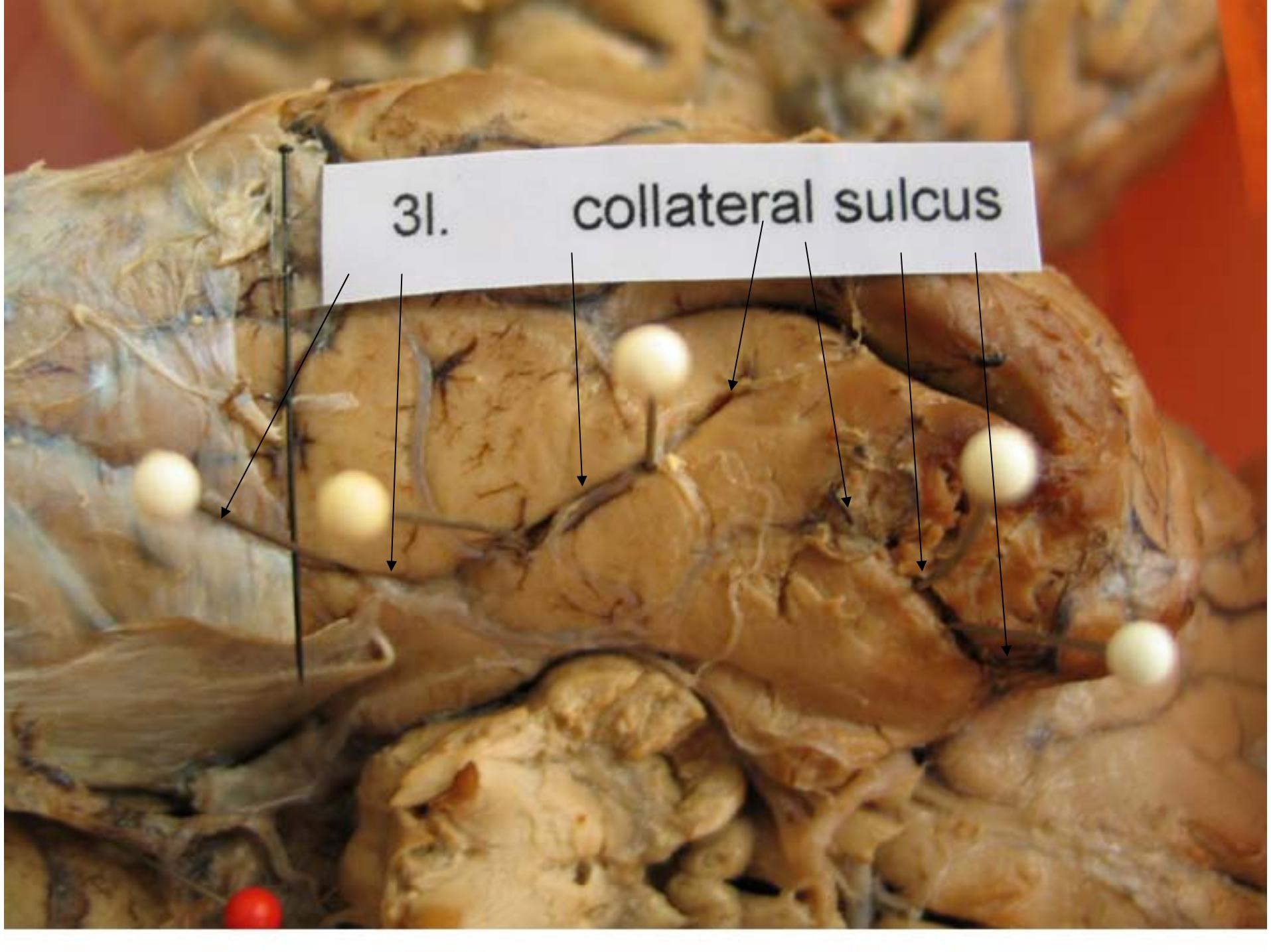
parieto-occipital sulcus

3j.

calcarine sulcus

3l.

collateral sulcus

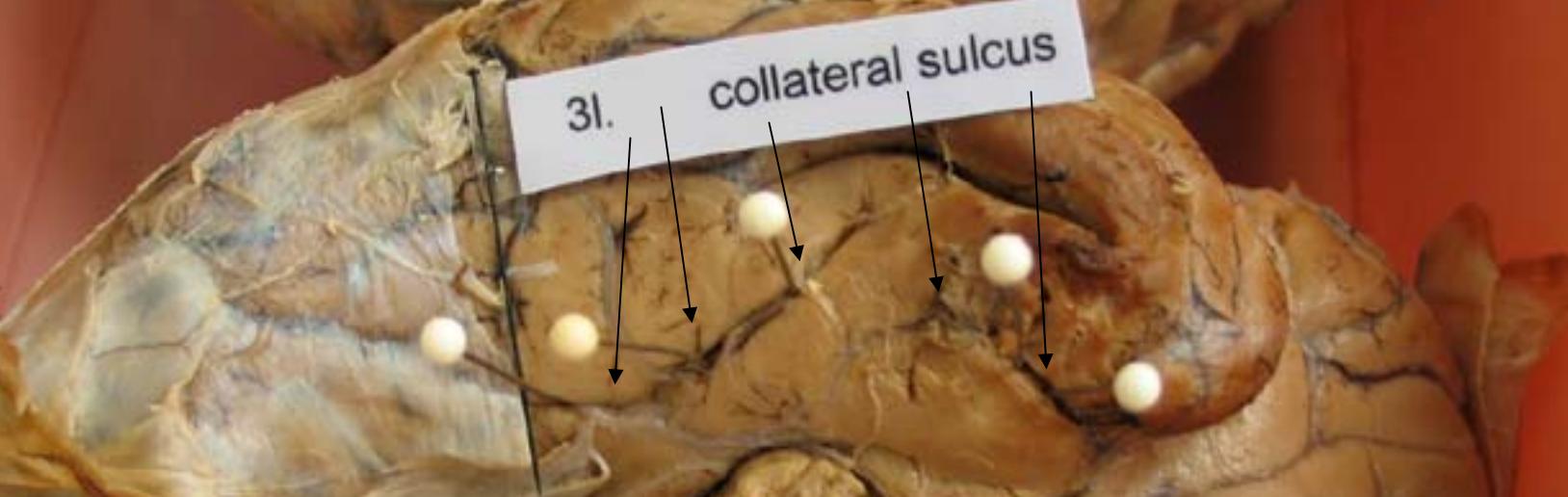


A photograph of a preserved human brain hemisphere, viewed from above. The brain is pinned to a metal tray with numerous yellow-headed pins. A white rectangular label is placed on the cerebral cortex, pointing to two specific anatomical features: the cingulate sulcus and the 3m. area. The cingulate sulcus is a deep groove in the anterior part of the cortex, and the 3m. area is a region just posterior to it. Arrows from the label point to these structures.

3m. cingulate sulcus

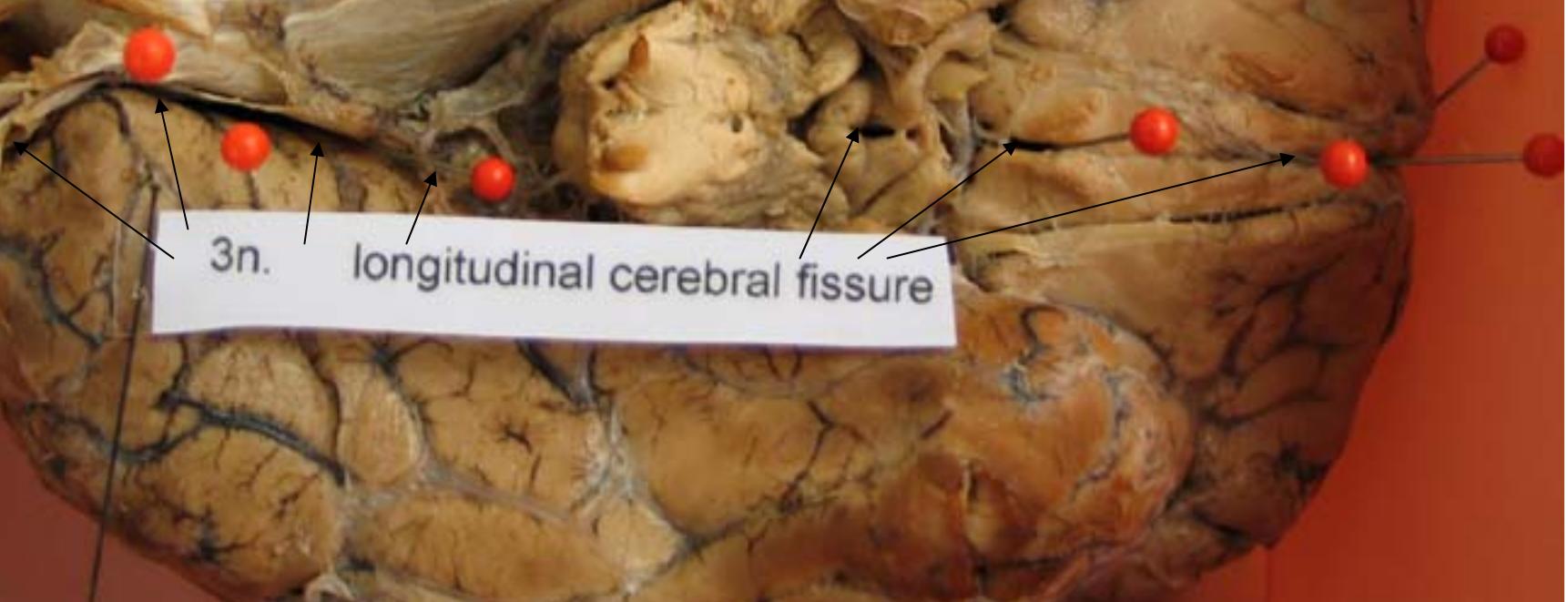
collateral sulcus

3l.



3n.

longitudinal cerebral fissure





3n.

longitudinal cerebral fissure

30.

transverse cerebral fissure



38.
superior frontal

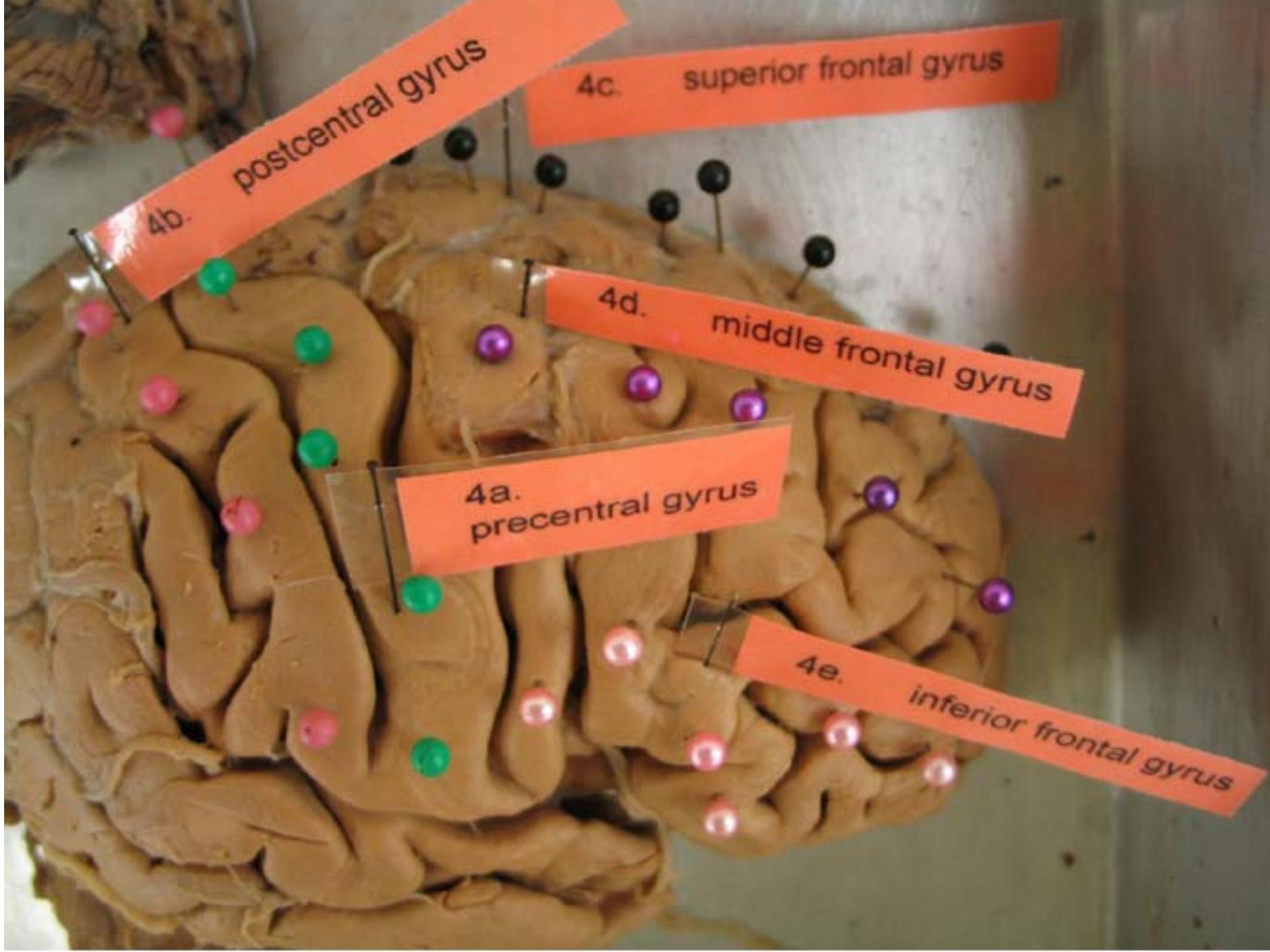
3f.
inferior frontal sulcus

30.
transverse cerebral fissure

4a.

precentral gyrus

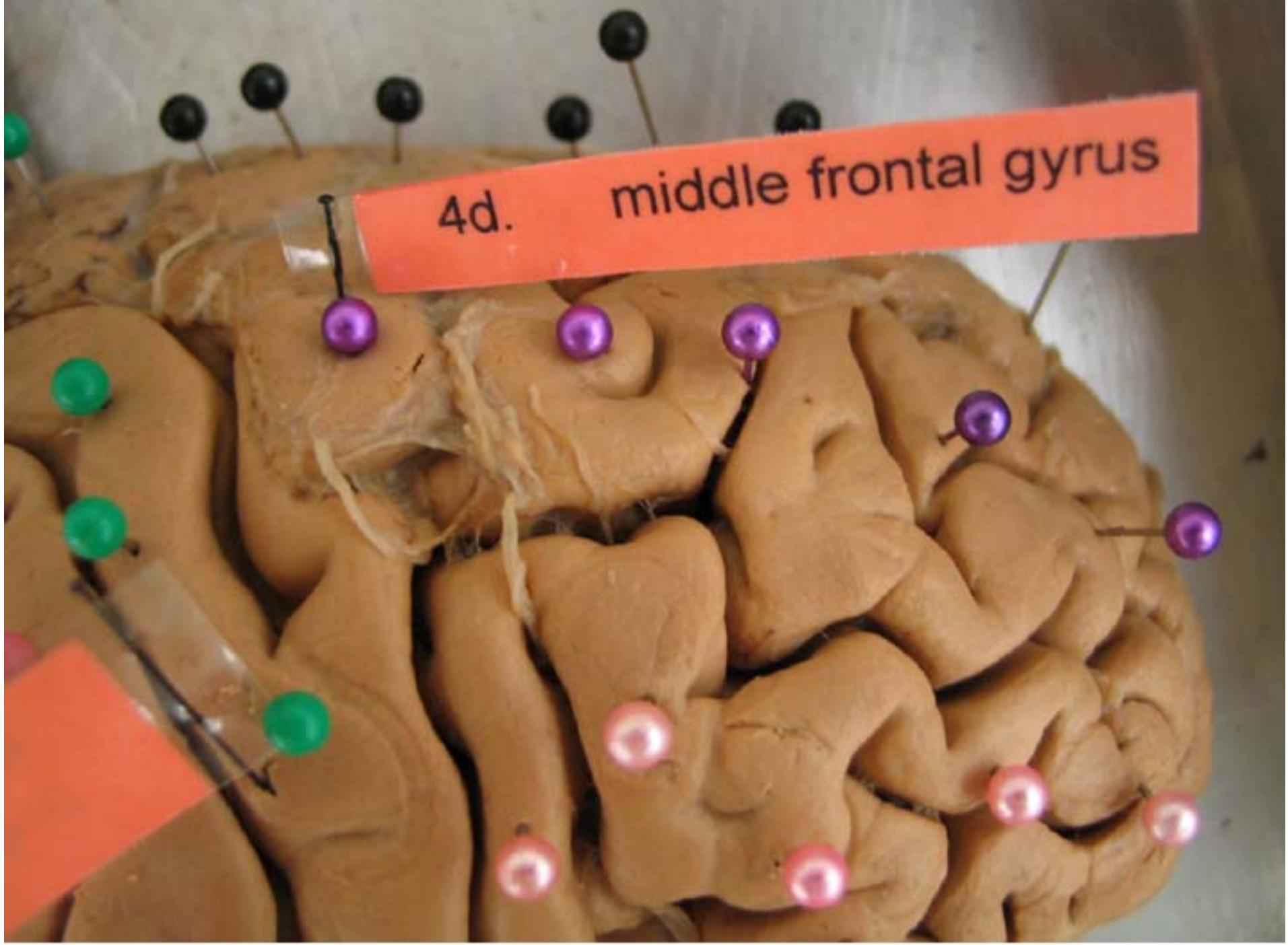




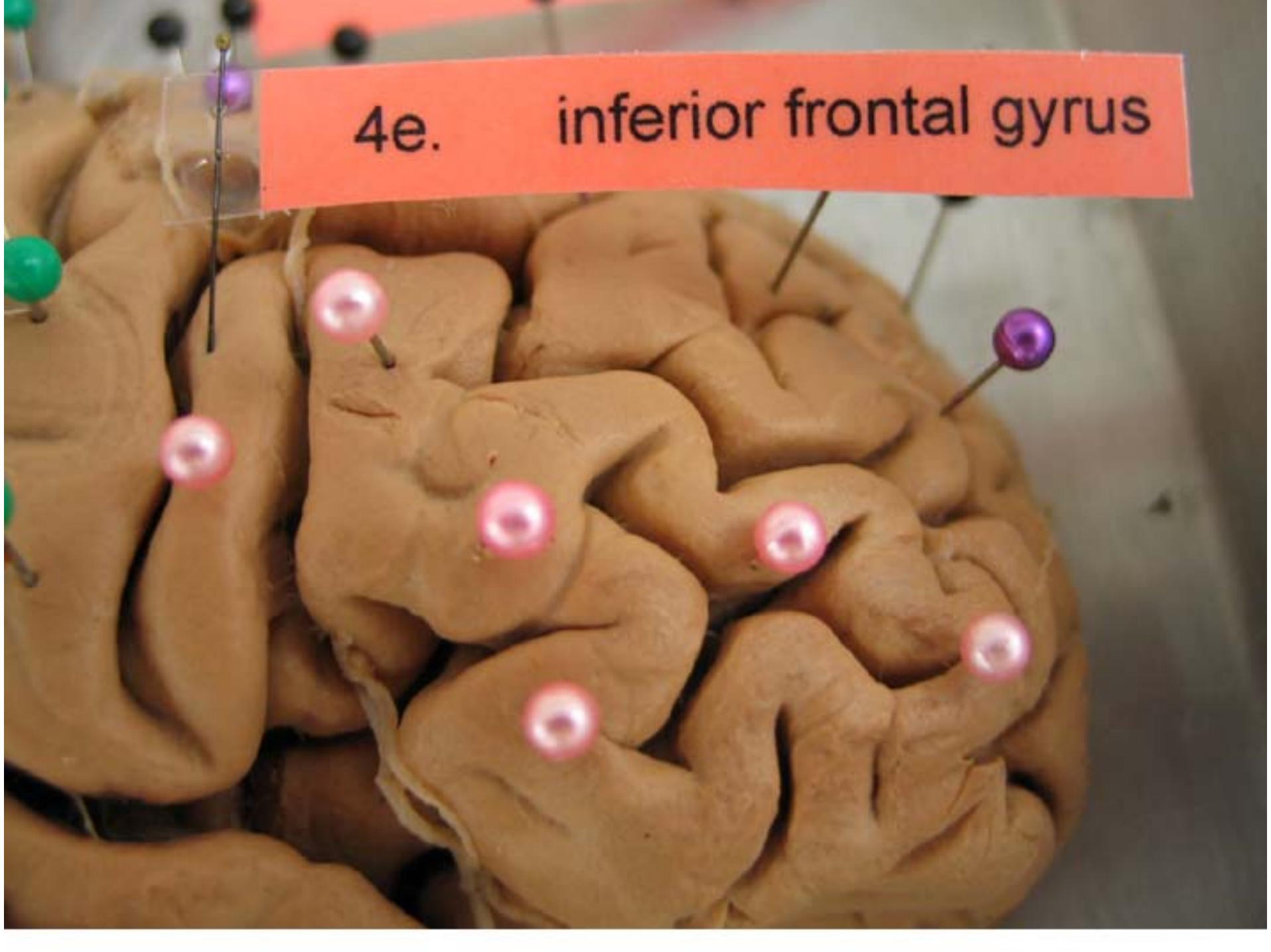
4C.

superior frontal gyrus

4d. middle frontal gyrus



4e. inferior frontal gyrus



4f. superior parietal lobule

4f.

4g.

inferior parietal lobule

4g.

inferior pariet.

4f. superior parietal lobule

4g. inferior parietal lobule

4g1. supramarginal gyrus

4g2 angular gyrus

amarginal gyrus

4g2. angular gyrus



4h. superior temporal gyrus

4i. middle temporal gyrus

4j. inferior temporal gyrus

4h.

superior temporal gyrus

4i.

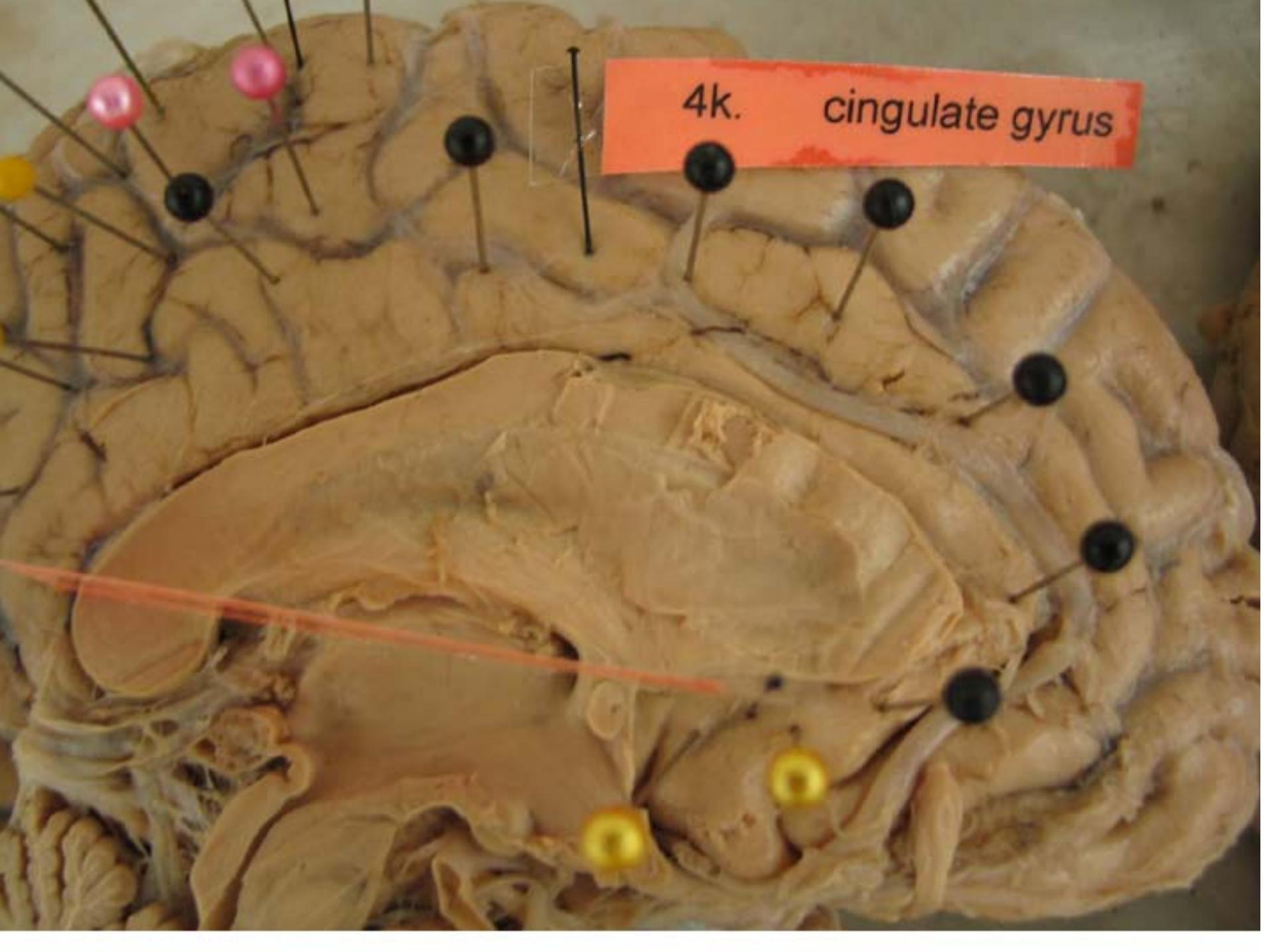
middle temporal gyrus

4j.

inferior temporal gyrus

4h1. transverse temporal gyri





4k. cingulate gyrus

4n. cuneus

4m. precuneus

4l. paracentral lobule

4k. cingulate gyrus

4k1. subcallosal area

4l.

paracentral lobule

4k.

4m.

precuneus



An. cuneus

4k1. subcallosal

40.

lingual gyrus

40.

lingual gyrus

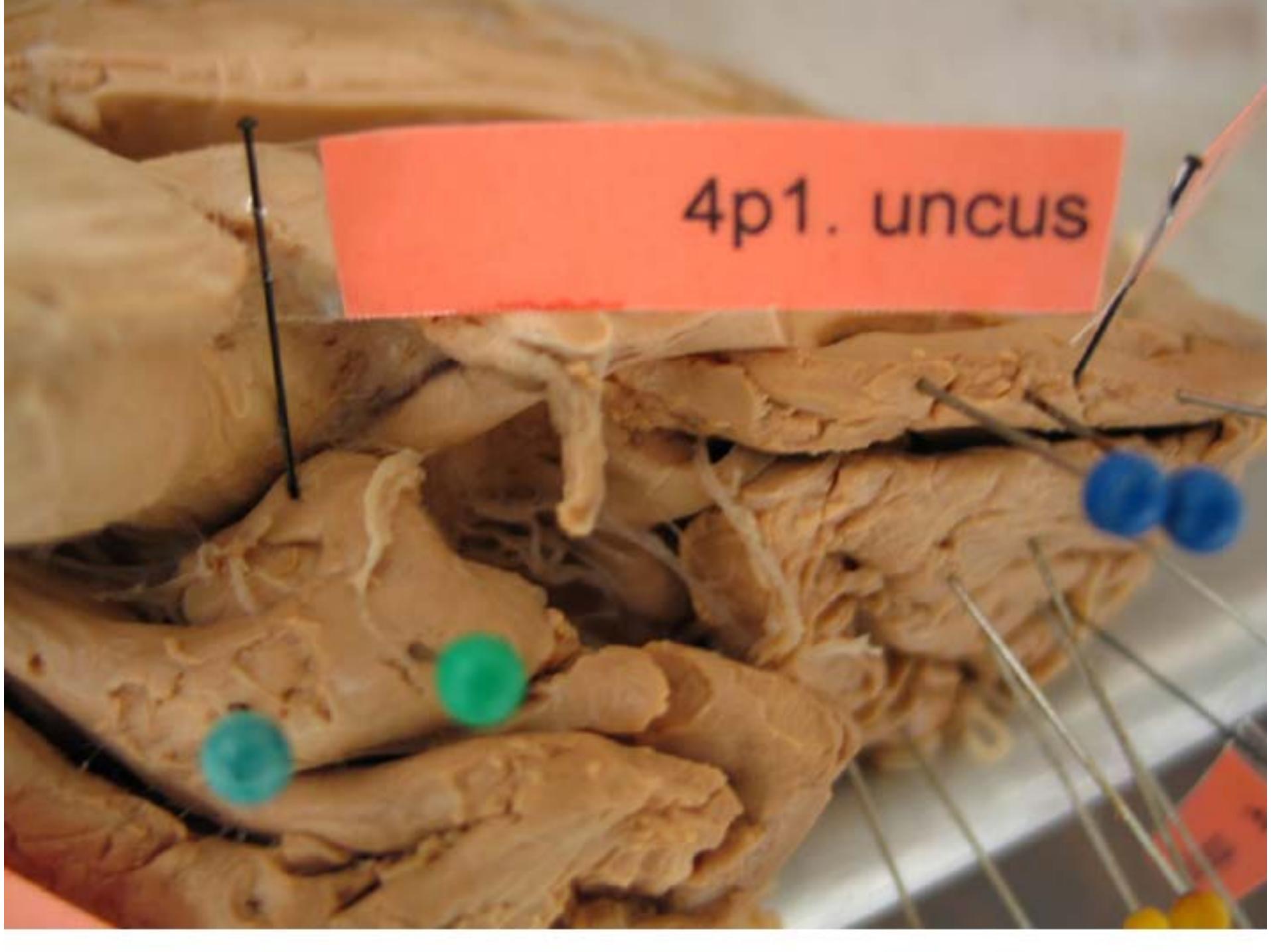
4p.

parahippocampal gyrus

4p1. uncus

4p.

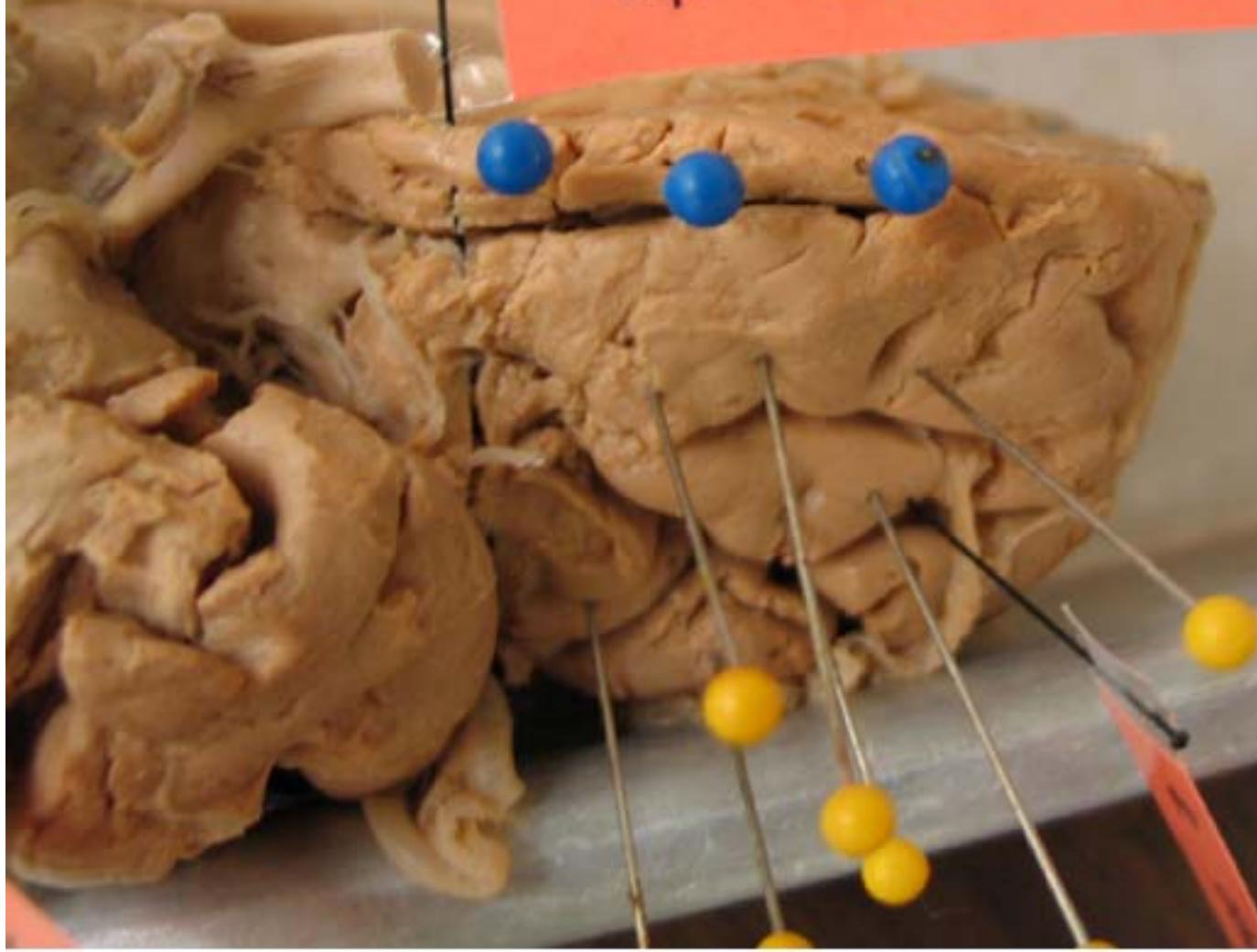
parahippocampal g.



4p1. uncus

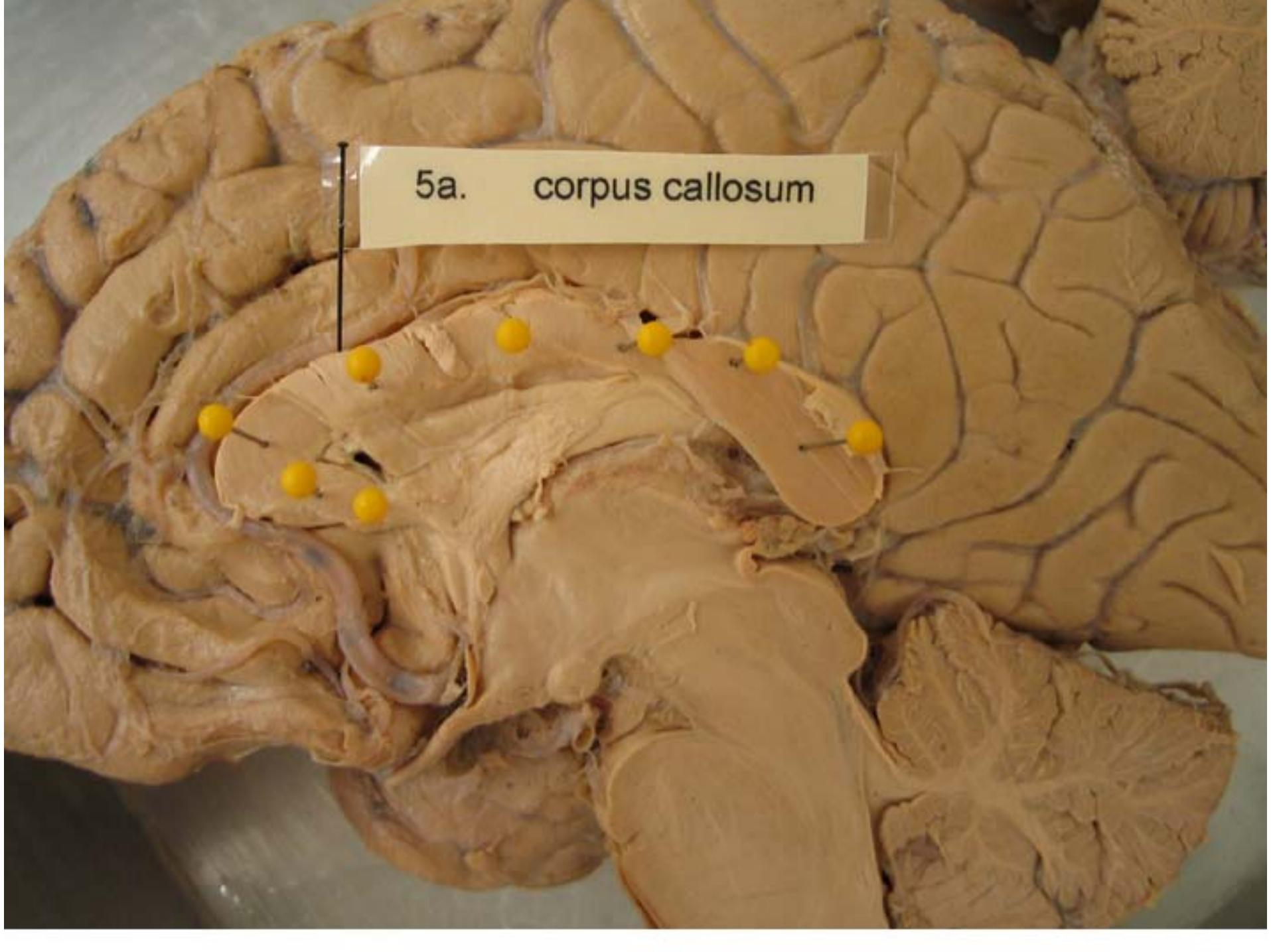
4q.

straight gyrus (gyrus rectus)



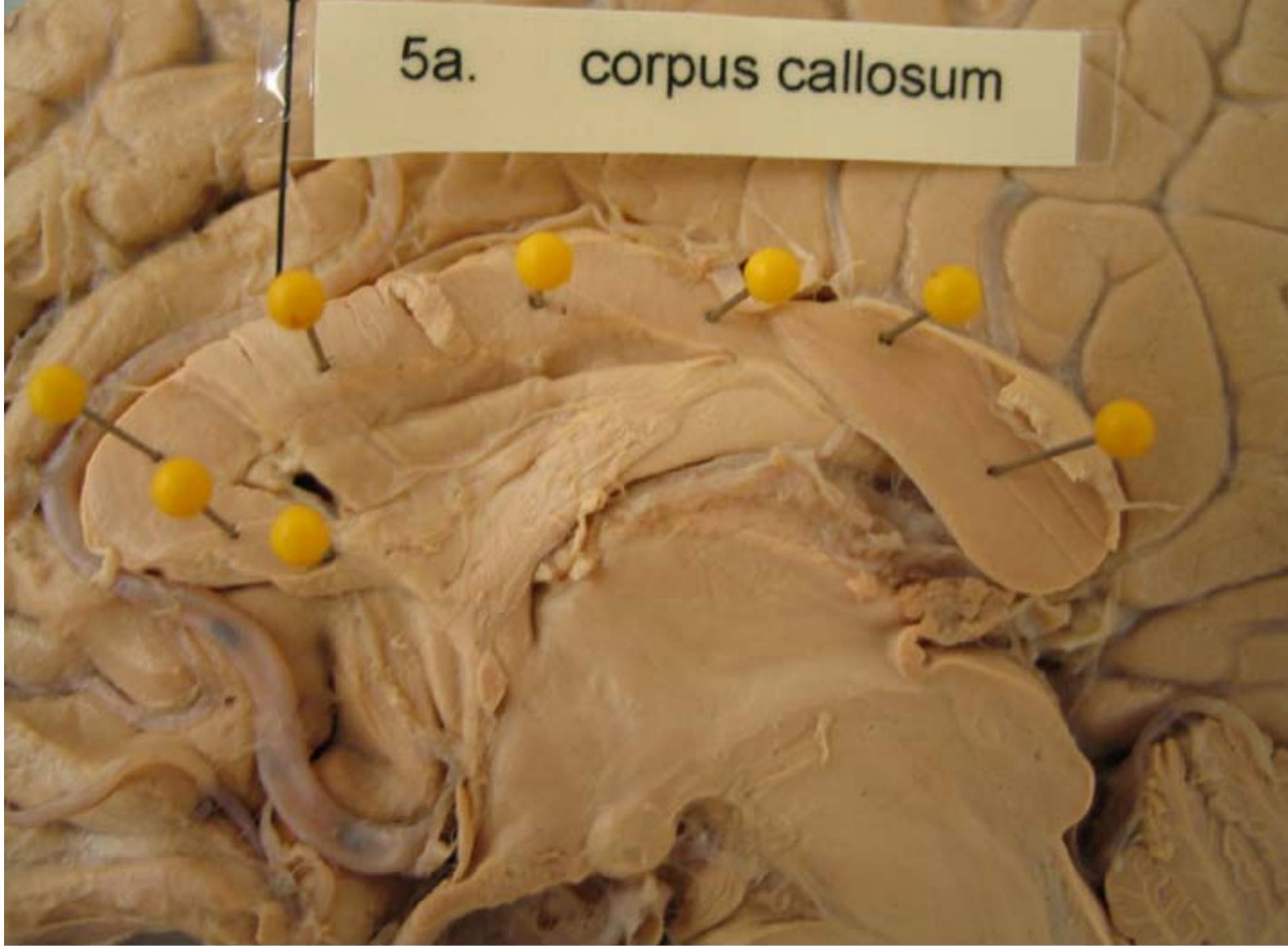
4r.

orbital gyri



5a. corpus callosum

5a. corpus callosum

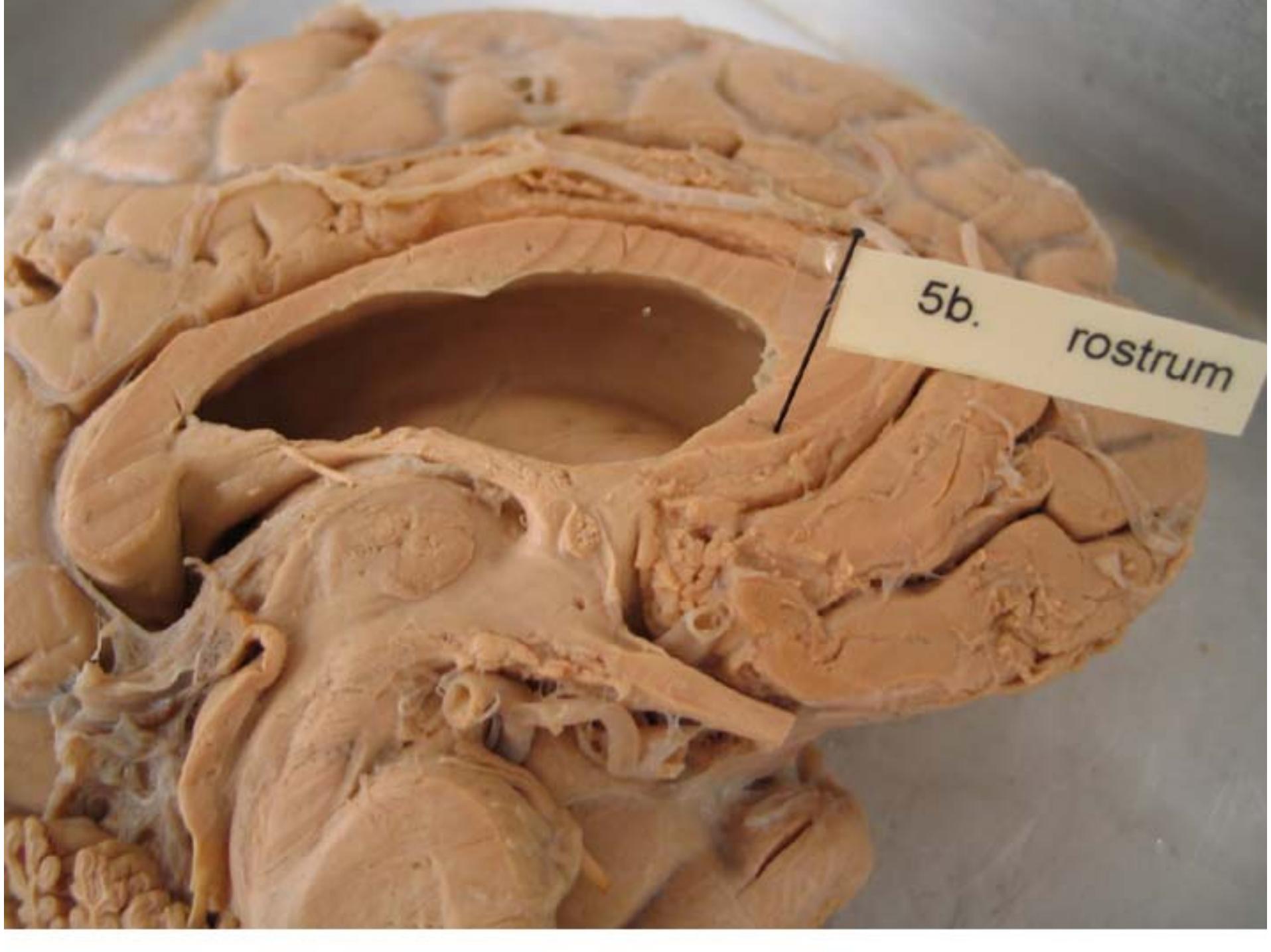


5d. trunk

5e. splenium

5c. genu

5b. rostrum

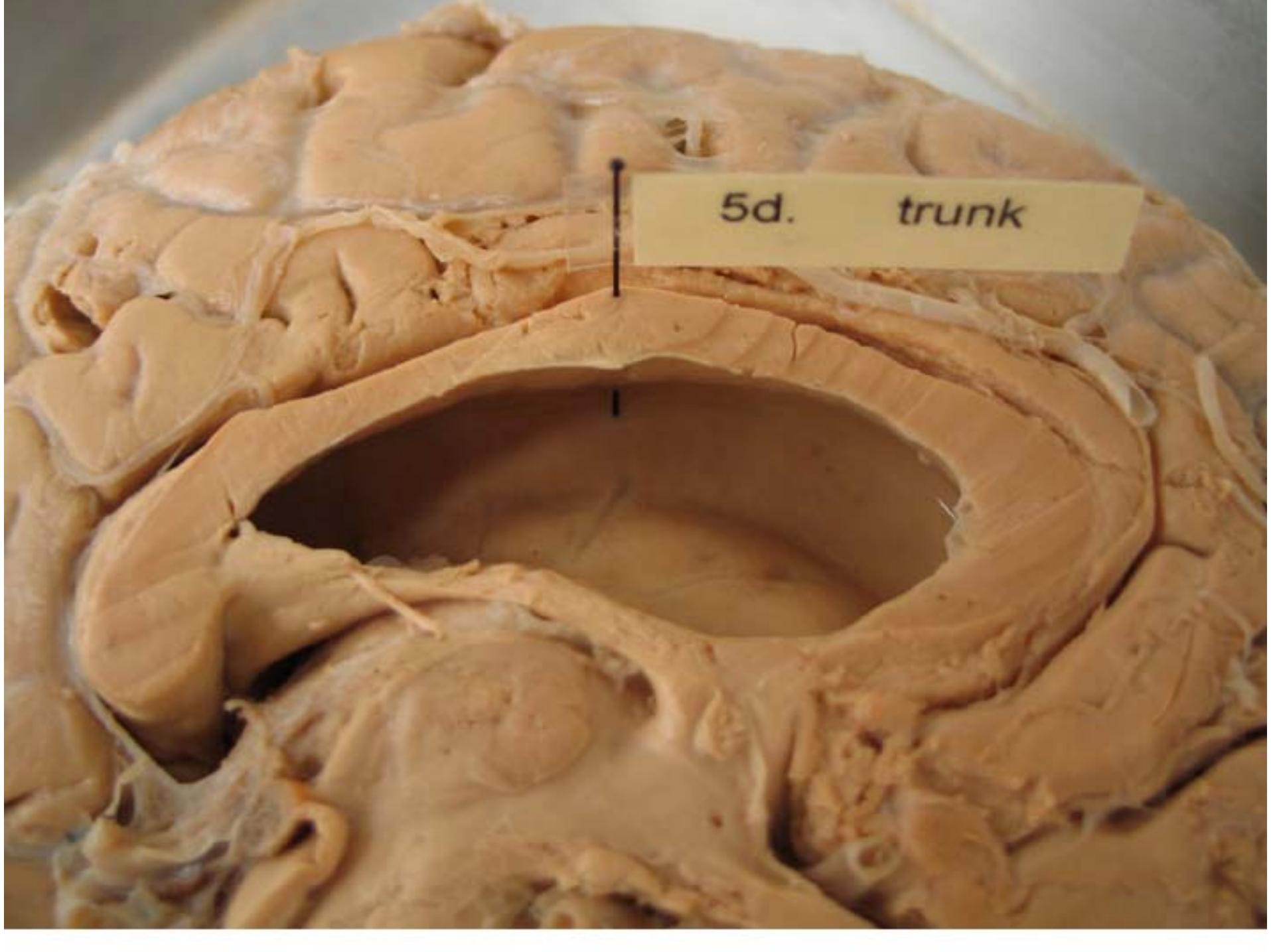


5b.

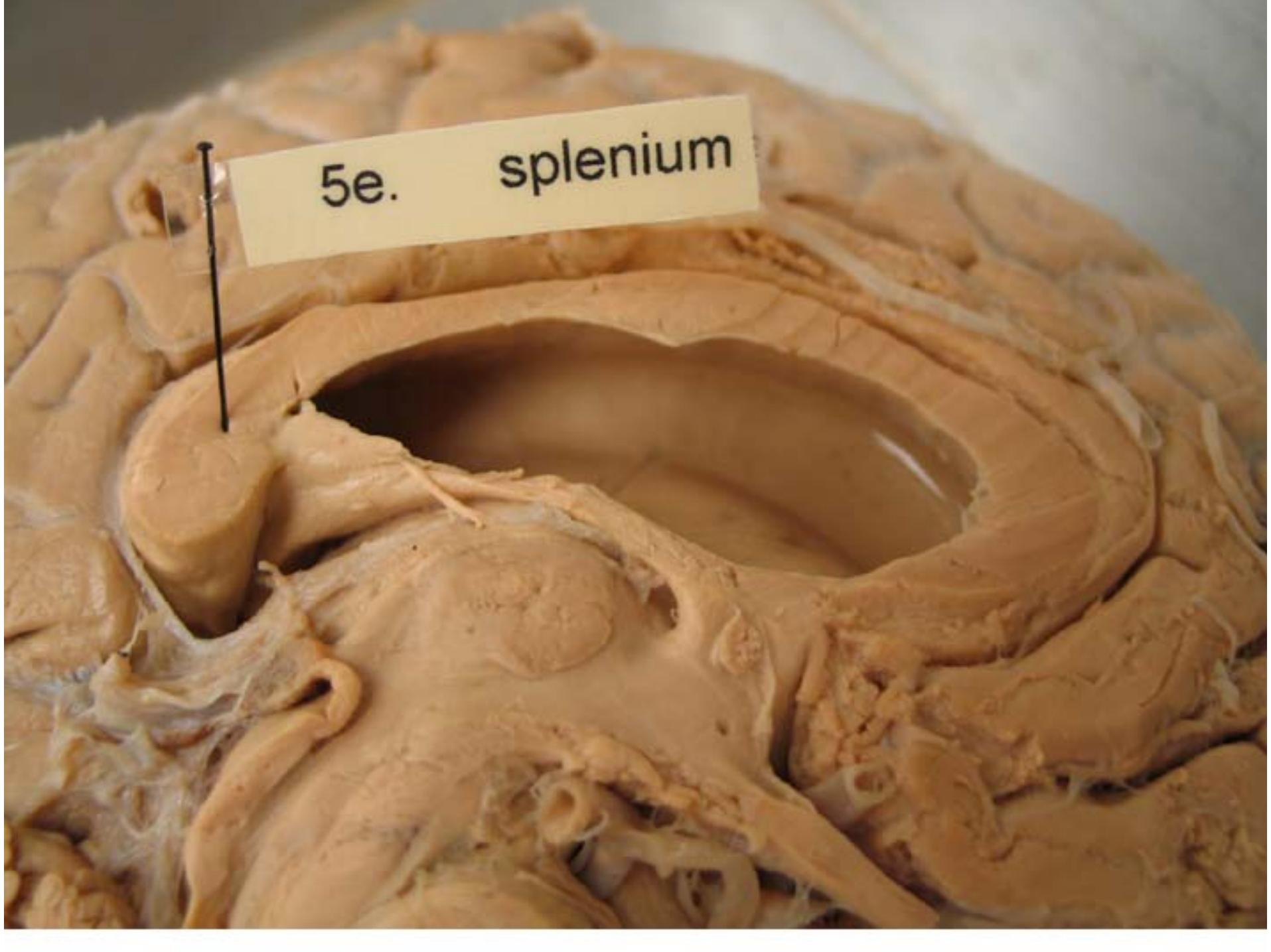
rostrum



5c. *genu*



5d. trunk

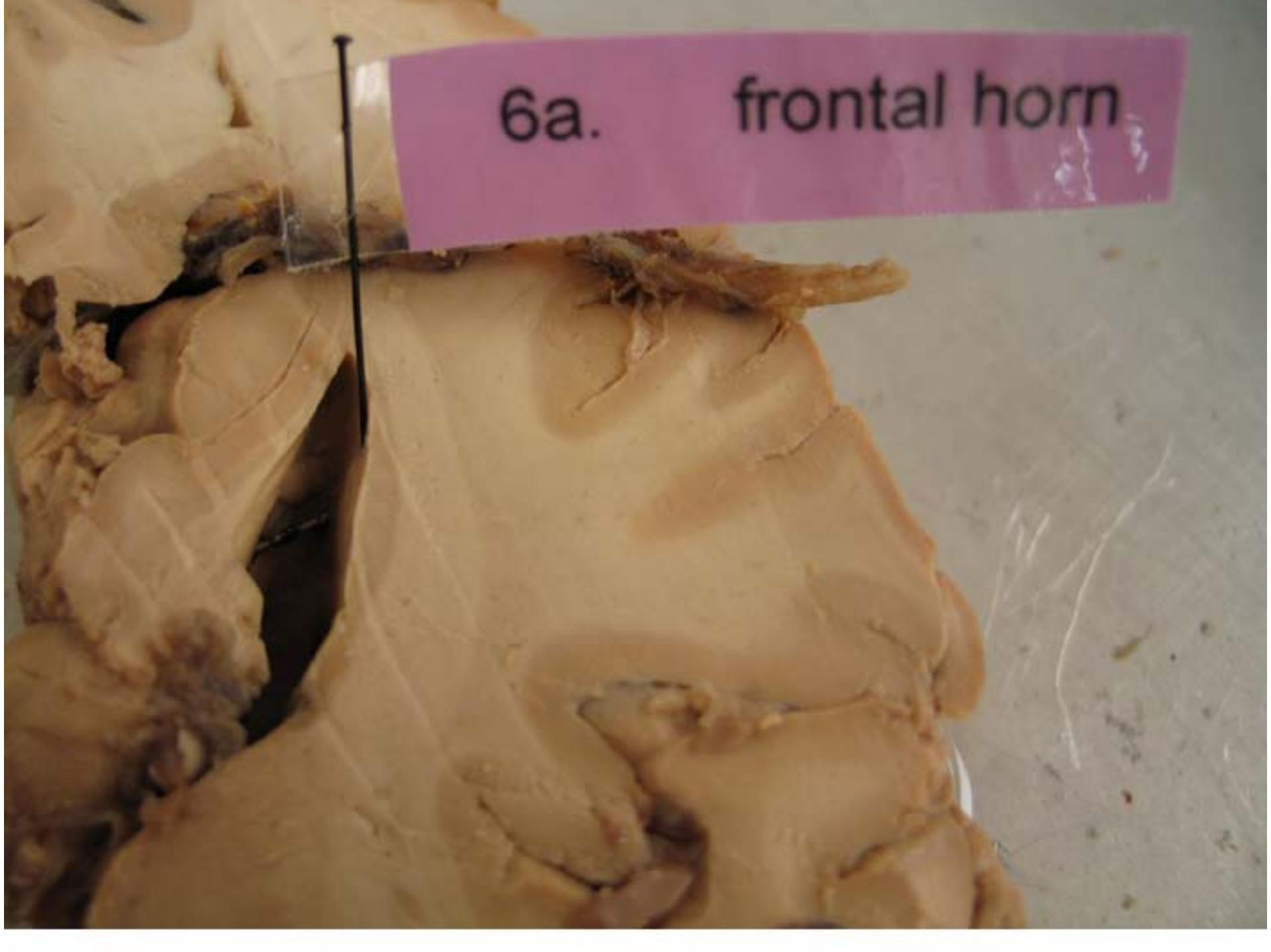


5e. splenium

6a.

frontal horn

6a. frontal horn



6b.

central part

6c.

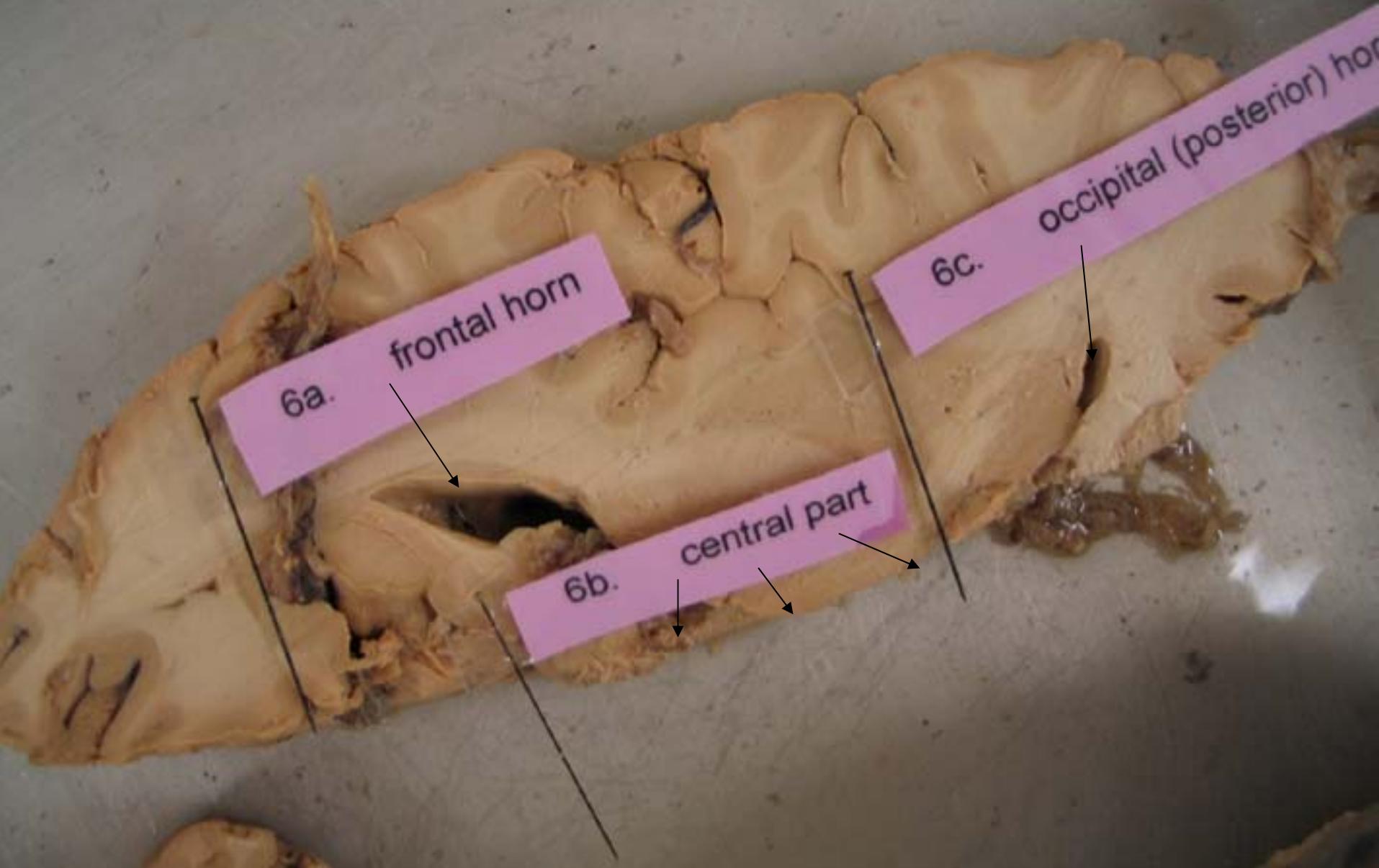
6b.

central part

6C.

occipital (posterior) horn

Lateral Ventricle



A photograph of a human brain specimen, likely a formalin-fixed specimen, viewed from a posterior perspective. The brain is a light tan color with visible sulci and gyri. A pink rectangular label is placed diagonally across the upper left portion of the brain. The label contains the handwritten text "6d." followed by "temporal (inferior) horn".

6d.
temporal (inferior) horn



temporal (inferior)

6d.

7d. anterior cerebral artery

7a. posterior cerebral artery

Posterior Communicating



cerebral artery

7a. posterior cerebral artery

Posterior cerebral artery

Posterior cerebral artery

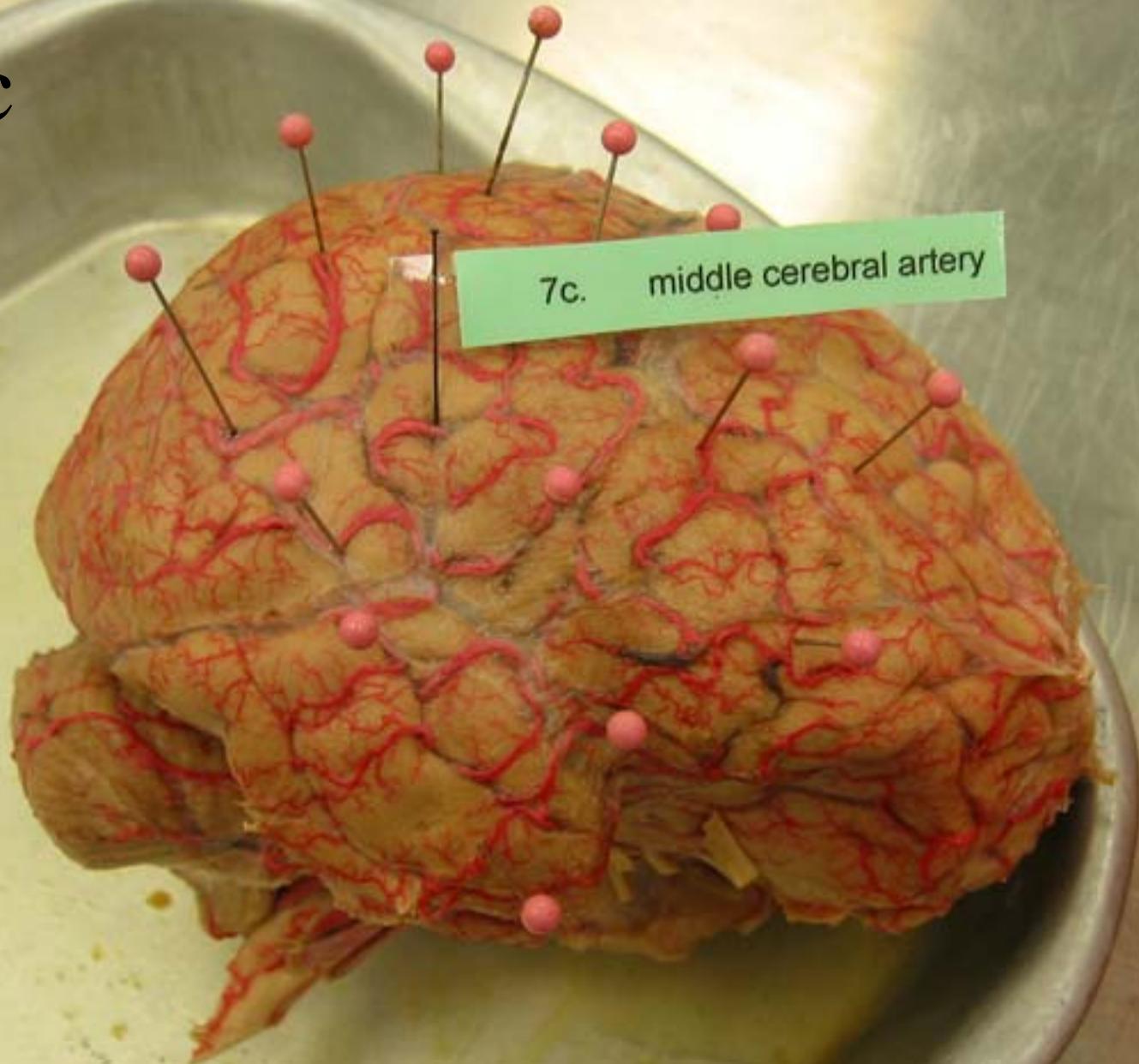
7c.

middle cerebral

7b.

internal carotid

7c



7c'



7c'



A photograph of a preserved human brain specimen. The brain is yellowish-tan with red-pink vascular structures. Several blue pushpins are inserted into the brain tissue, particularly along the anterior cerebral artery. A green rectangular label is placed over the brain, containing the text "7d. anterior cerebral artery".

7d. *anterior cerebral artery*

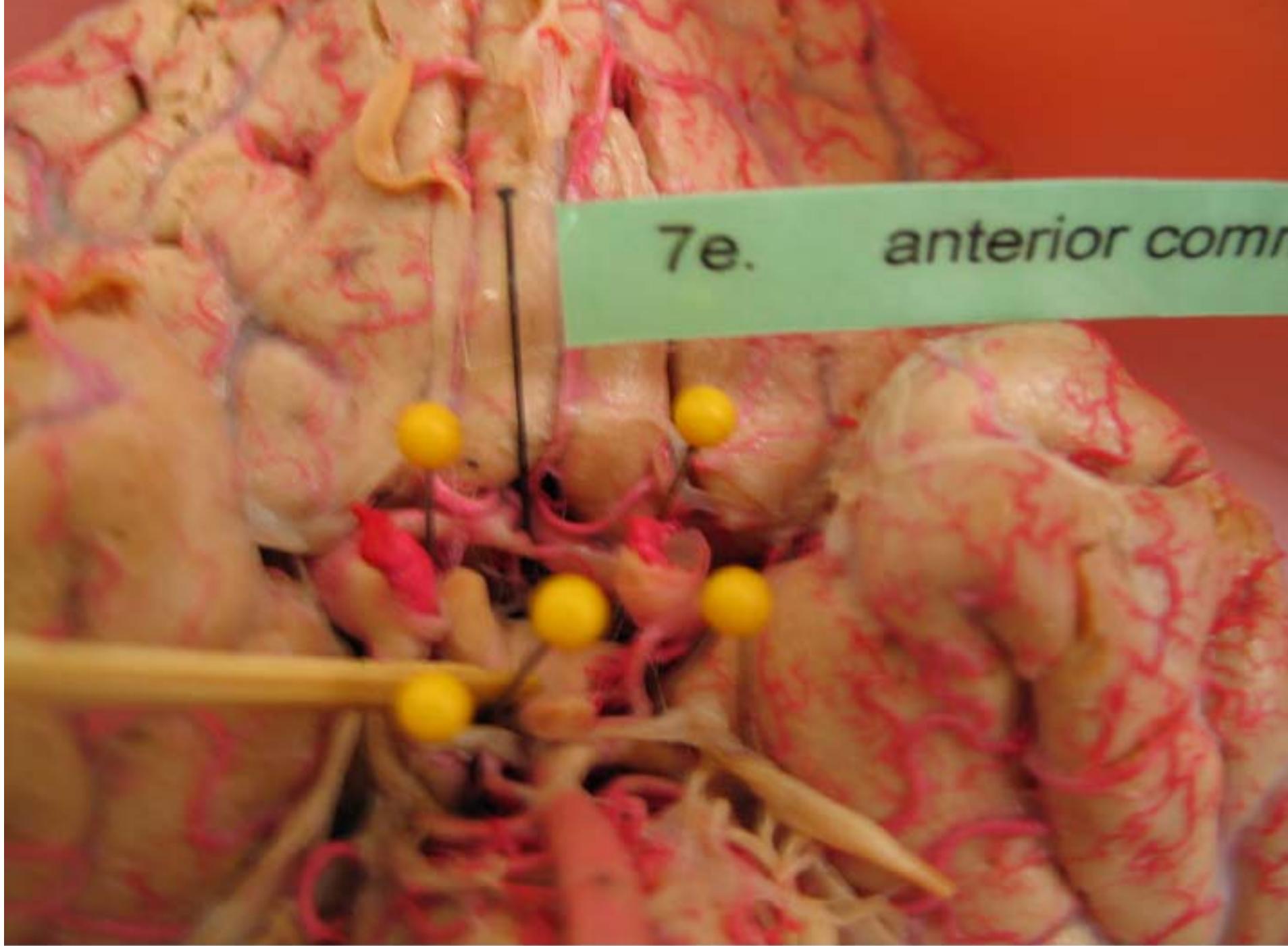
7d. *anterior cerebral artery*

This image shows a lateral view of a human brain specimen. The anterior cerebral artery, a major blood vessel, is highlighted with several red-colored pins. A green rectangular label is placed across the top of the brain, containing the text "7d. *anterior cerebral artery*". The brain's gyri (ridges) and sulci (grooves) are visible, and the overall color is a pale yellow or tan.

7e.

anterior commun

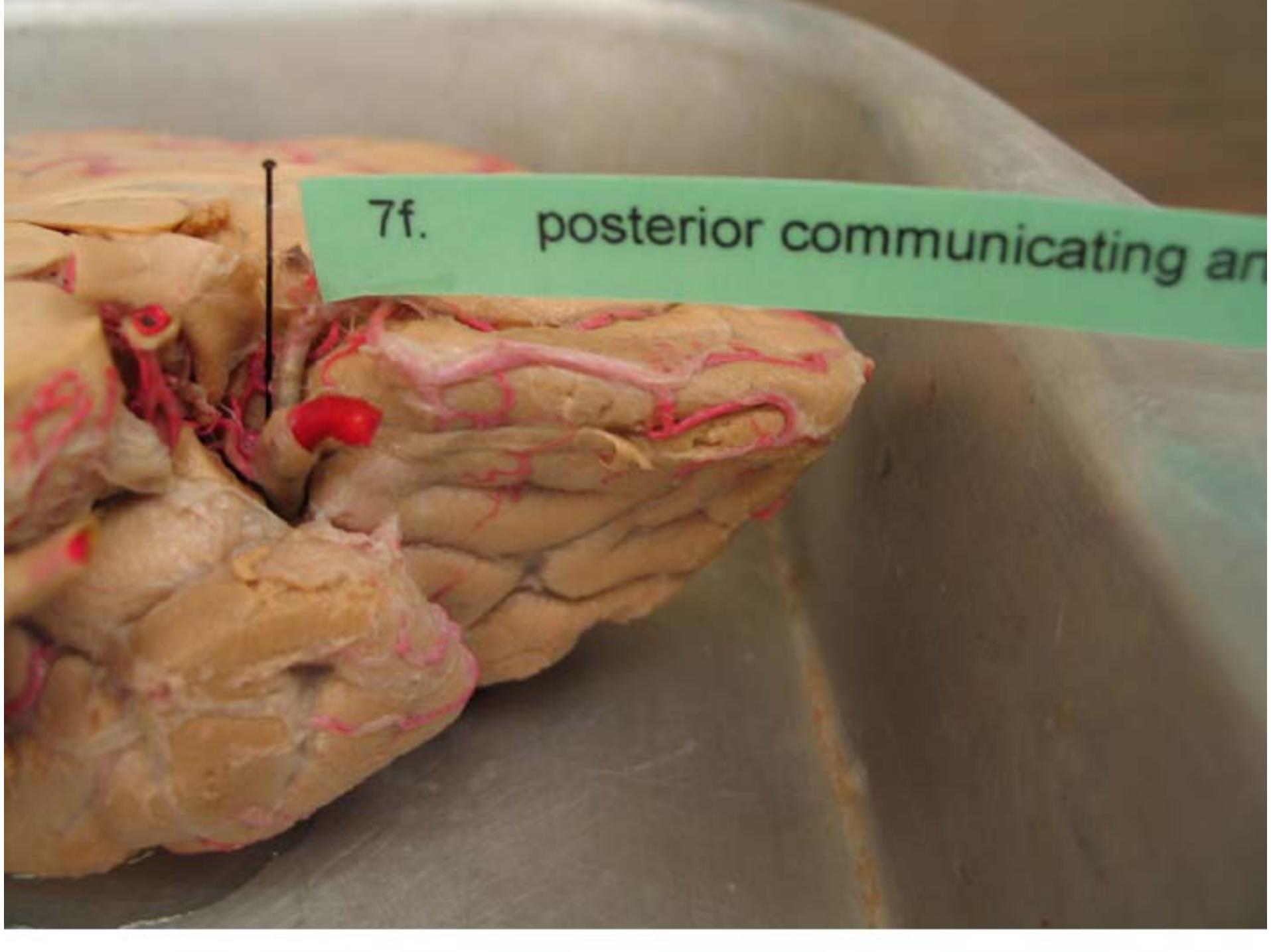
7e. *anterior commiss*



7f.

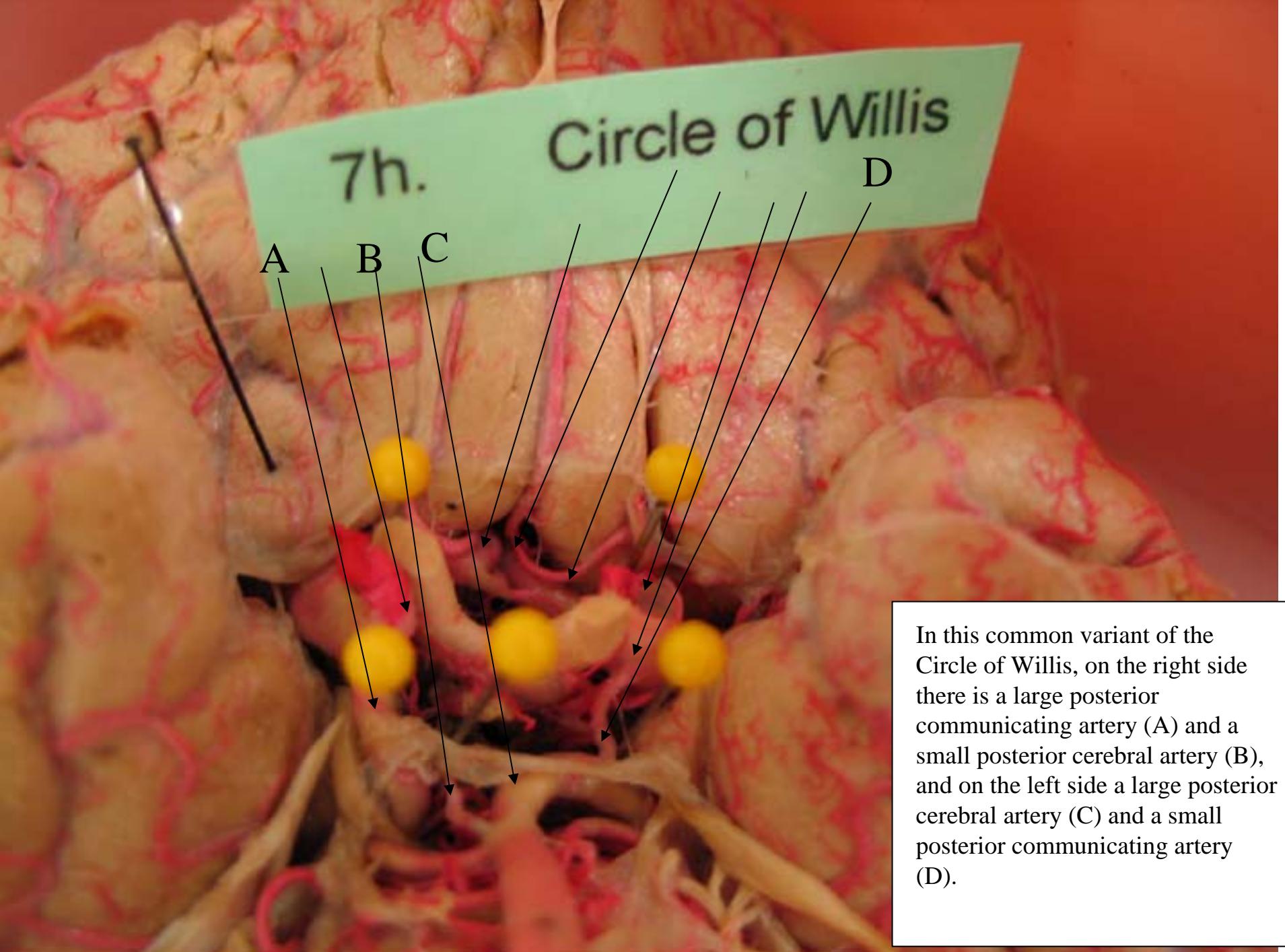
poste



A photograph of a formalin-fixed human brainstem specimen. The specimen is stained with a combination of red and yellow dyes, highlighting the vascular network and specific anatomical structures. A single black pushpin is inserted through the pons area. A green rectangular label is positioned above the brainstem, containing text.

7f.

posterior communicating an



In this common variant of the Circle of Willis, on the right side there is a large posterior communicating artery (A) and a small posterior cerebral artery (B), and on the left side a large posterior cerebral artery (C) and a small posterior communicating artery (D).

7h.

Circle of Willis

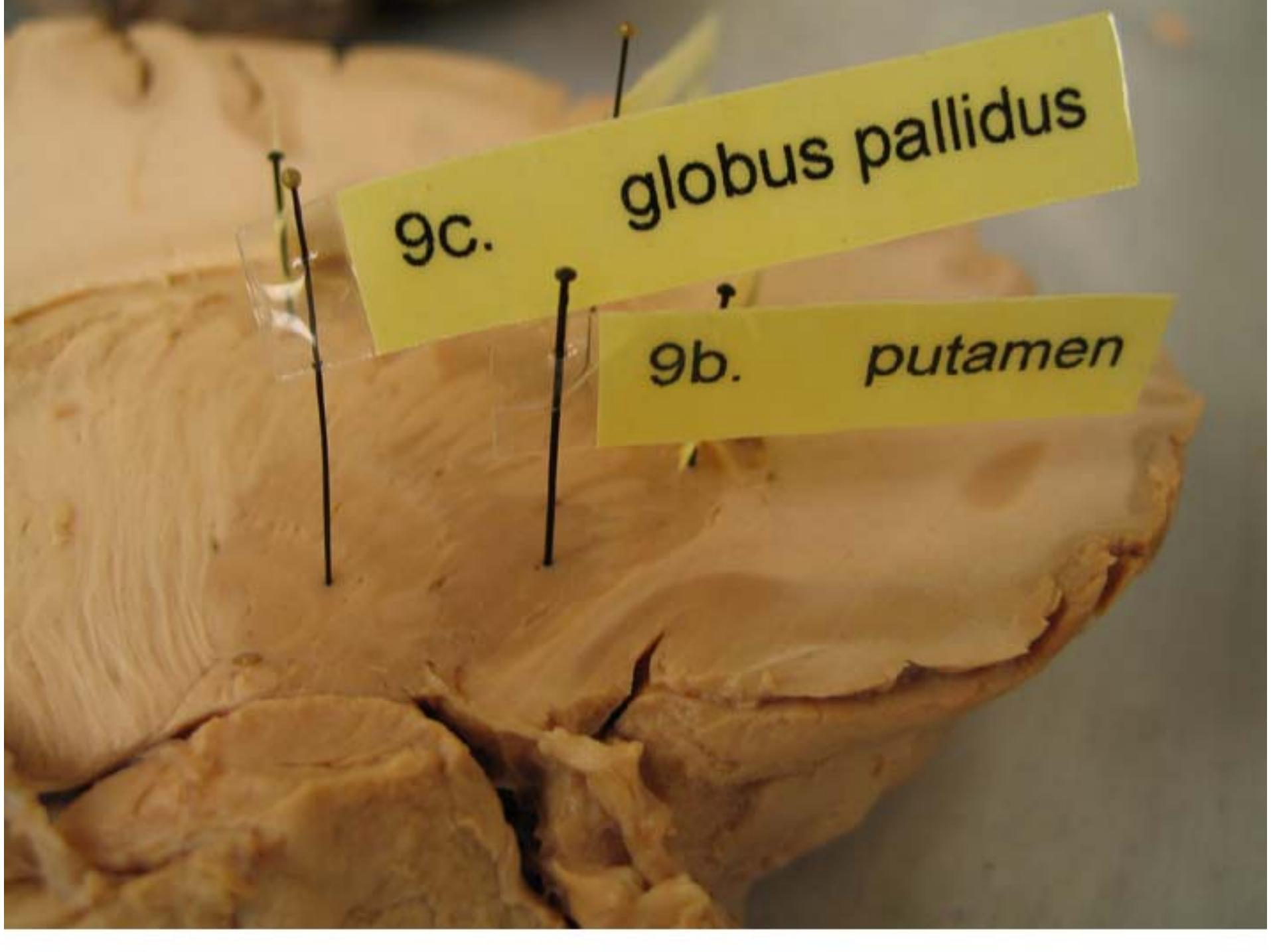


tail)

, body,

9a.

caudate nucleus
(head)



globus pallidus

9c.

9b. *putamen*

tail)

, body,

9a. caudate nucleus

9c. globus pallidus

9b. head
putamen

9d. anterior limb of internal capsule

9d.

10e. septal nuclei

10e.

9g.

cortex striata

9e. genu of internal capsule

9e.

9d.

10e. septal nuclei

9e. genu of internal capsule

10c

10d

9d.

anterior limb of internal capsule

ona radiata

9e. genu of internal capsule

9f.

posterior limb of internal capsule

9g. corona radiata



corona radiata

gg.



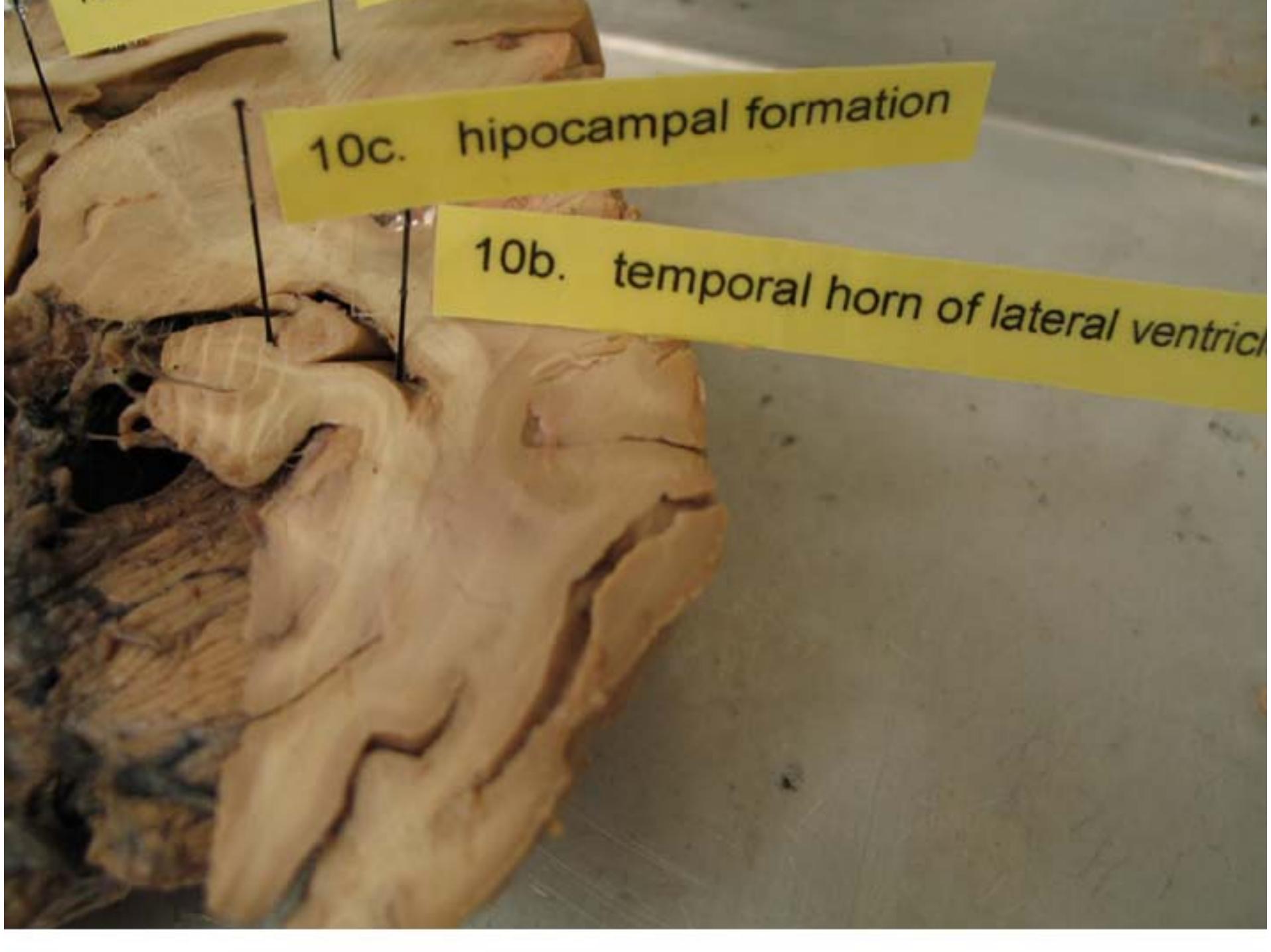
10f. accumbens nucleus

10a. amygdala

10f. *accumbens* Huem.



10a. *amygdala*



10c. hippocampal formation

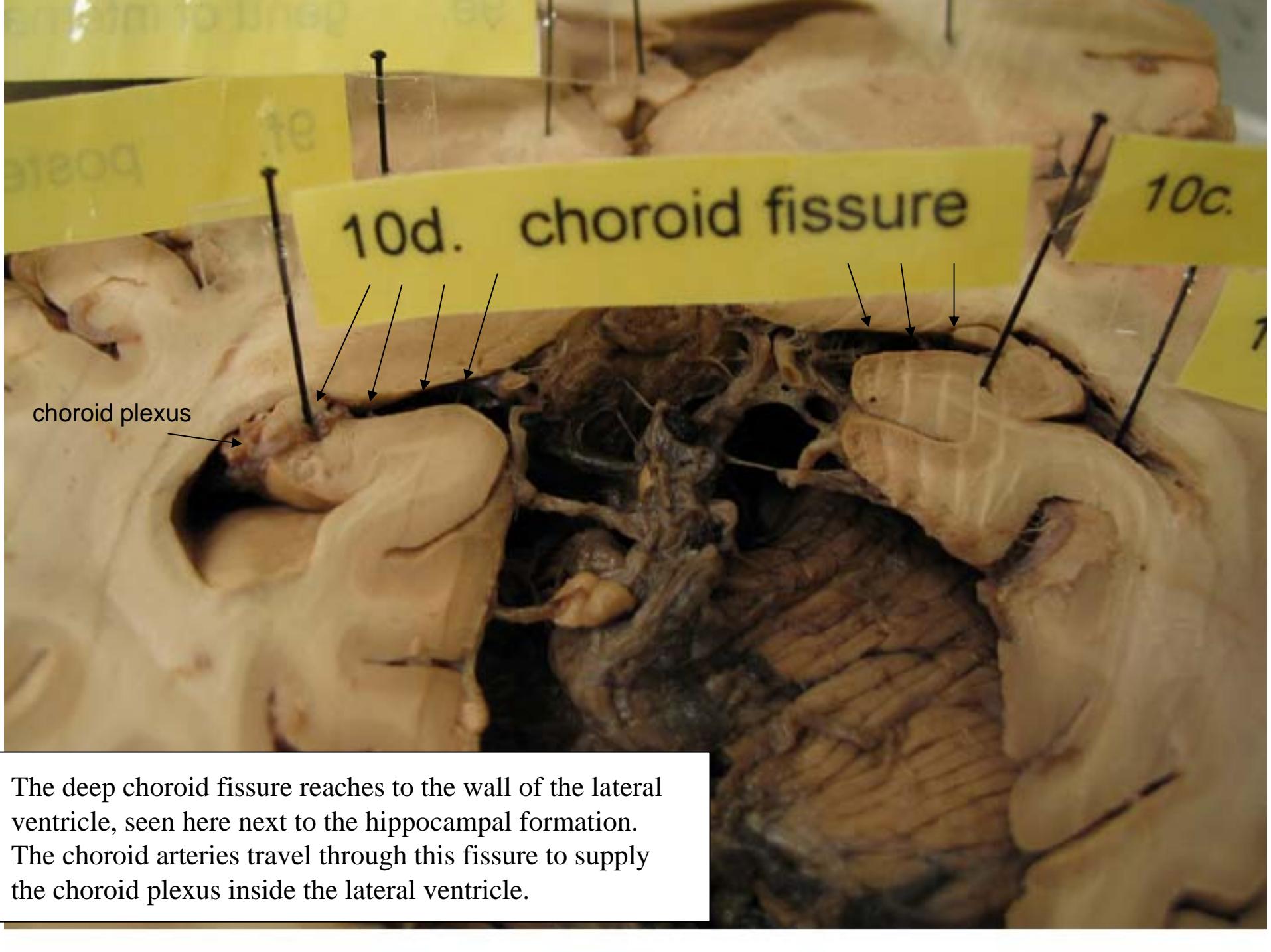
10b. temporal horn of lateral ventricle

10c. hippocampal formation

10b. temporal horn

10d. choroid fissure

choroid plexus

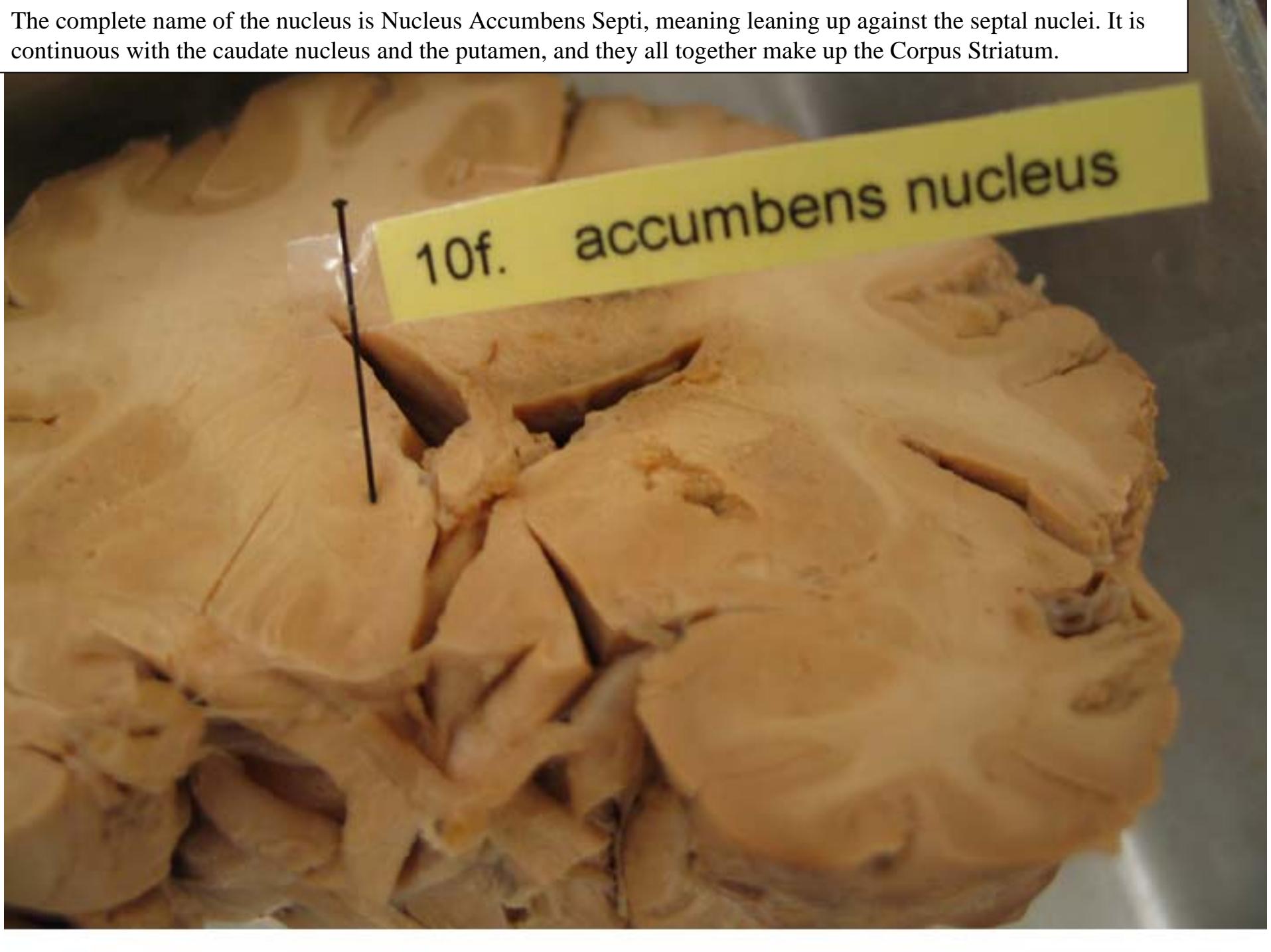


The deep choroid fissure reaches to the wall of the lateral ventricle, seen here next to the hippocampal formation. The choroid arteries travel through this fissure to supply the choroid plexus inside the lateral ventricle.

10e. septal nuclei

septum pellucidum

The complete name of the nucleus is Nucleus Accumbens Septi, meaning leaning up against the septal nuclei. It is continuous with the caudate nucleus and the putamen, and they all together make up the Corpus Striatum.



10f. accumbens nucleus