

ATLAS OF THE DEVELOPING RAT BRAIN IN STEREOTAXIC COORDINATES

P9

Roustem KHAZIPOV, Dilyara ZAYNUTDINOVA, Elena OGIEVETSKY, Olga MITRUKHINA,
Jean-Bernard MANENT, Alfonso REPRESA

INMED, INSERM U-901 & Aix-Marseille University, Marseille, France
Laboratory of Neurobiology, Kazan Federal University, Kazan, Russia

Atlas presents a series of microphotographs of coronal 200 micron brain sections of a P0 Wistar rat (weight 7.3 g). Sections were cut vertical to the horizontal plane extending from bregma to lambda. Therefore using this atlas requires position of the rat head with bregma and lambda adjusted to the same height. Sections at bregma and lambda levels are marked with Dil-trace. Additional Dil trace across the whole brain was used to control slicing vertical to the horizontal plane. Sections were prepared from the paraformaldehyde and glutaraldehyde fixed brains through vibroslicing. No coloration was used. Microphotographs were made from the wet sections in oblique light. Atlas starts with a list of abbreviations and an outline of the brain view from above.

For additional information see (reference to the Frontiers in Neuroanatomy data report).

List of Structures

3V	3rd Ventricle
4V	4th Ventricle
Acb	Accumbens nu
Aq	Aqueduct Sylvius
Am	Ambiguus nu
A	Amygdala
ac	anterior commissure
Arc	Arcuate hypothalamic nu
Au	Auditory cortex
BL	Basolateral amygdala nu
CA1	CA1
CA3	CA3
CPu	Caudate Putamen
CC	Central Canal
cp	cerebral peduncle
Cg	Cingulate cortex
Cl	Clastrum
cc	corpus callosum
Cnf	Cuneiform nu
DG	Dentate Gyrus
DB	Diagonal Band
DR	Dorsal Raphe nu
DLG	Dorso Lateral Geniculate
End	Endopyriform nu
Ent	Entorhinal cortex
7n	Facial nerve
7	Facial nu
fi	fimbria
f	fornix

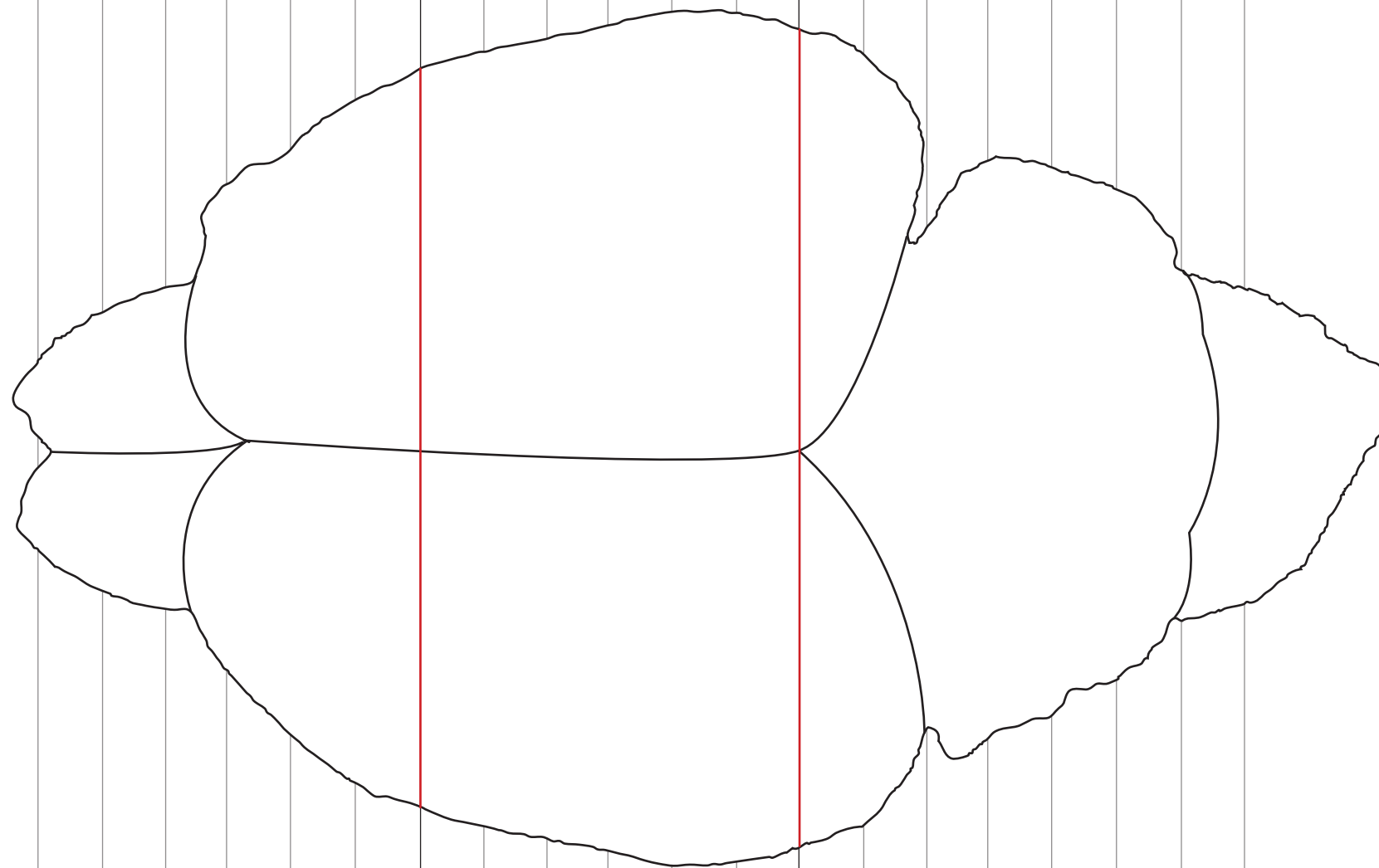
F	Frontal cortex
g7	genu of facial nerve
Hb	Habenula
H	Hilus
12	hypoglossal nucleus
hypo	hypothalamus
icp	inferior cerebellar peduncle
IC	Inferior Colliculus
IO	Inferior Olive
ic	internal capsule
IPR	Interpeduncular nu
La	Lateral amygdala nu
lo	lateral olfactory tract
LSD	Lateral Septal Dorsal nu
LSI	Lateral Septum Intermediate
LT	Lateral Thalamus
LV	Lateral Ventricle
LC	Locus Coeruleus
mt	mamillothalamic tract
MG	Medial Geniculate nu
MR	Medial Raphe nu
MS	Medial Septal nu
Me5	Mesencephalic trigemic nu
mcp	middle cerebellar peduncle
M	Motor cortex
M2	Motor cortex
m5	motor root trigeminus
3	oculomotor n
OB	Olfactory Bulb
ON	Olfactory Nu
Tu	olfactory Tubercle

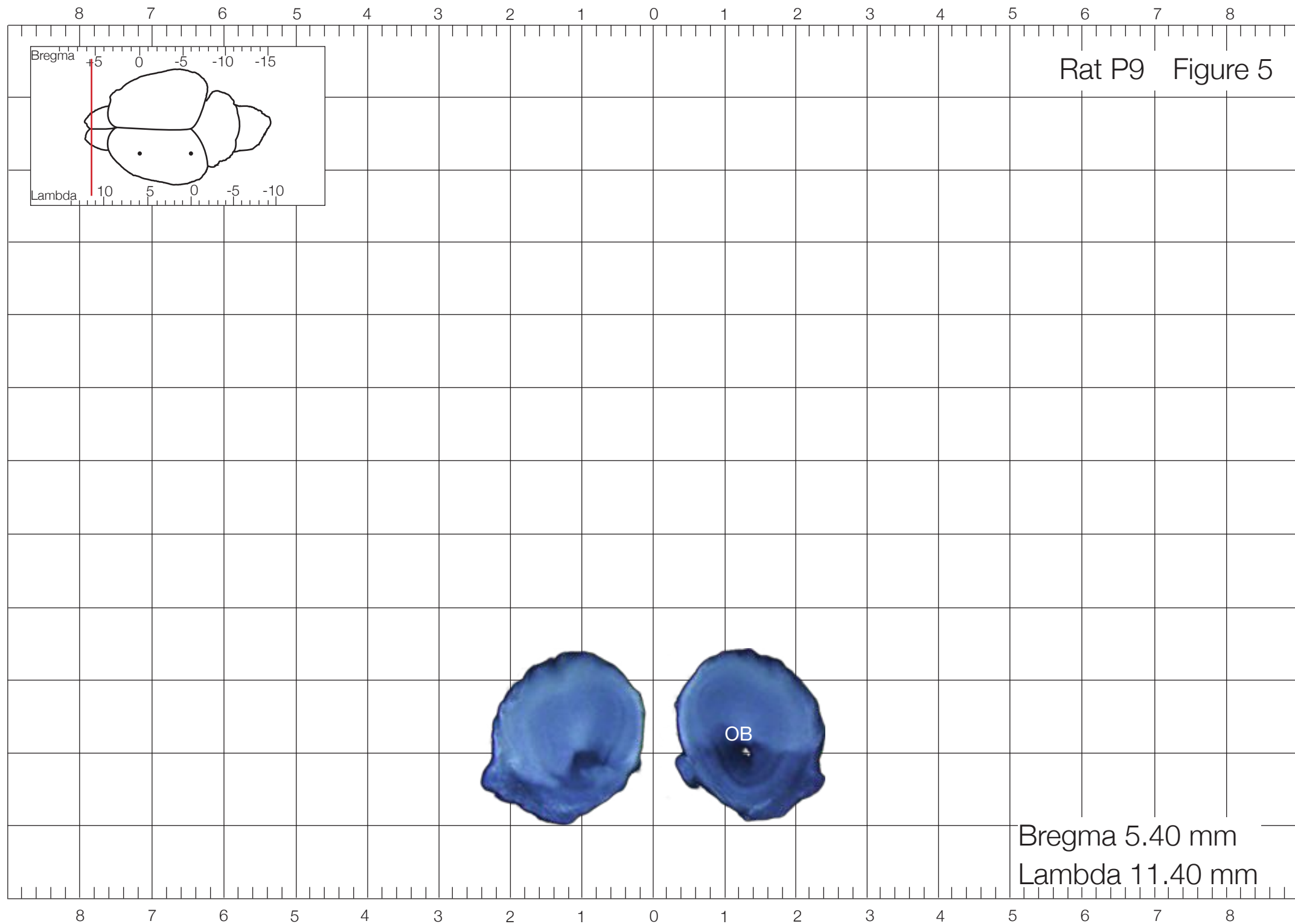
ox	optic chiasma
opt	optic tract
O	Orbital cortex
PB	Parabraquial nu
Par	Parietal cortex
PAG	Periaqueductal Gray
Pir	Piriform cortex
Pn	Pontine nu
PnR	Pontine Raphe nu
pc	posterior commissure
M1	primary Motor cortex
py	pyramidal tract
RM	Raphe Magnus nu
RS	Retrosplenial cortex
rf	rhinal fissure
s5	sensory root trigeminus
Sol	Solitary nu
S1	Somatosensory 1
S1BF	Somatosensory 1 Barrel Field
S	Subiculum
SN	Substantia Nigra
SNC	Substantia Nigra Compacta
SNR	Substantia Nigra Reticulata
STh	Subthalamic nu
scp	superior cerebellar peduncle
SC	Superior Colliculus
SCh	Suprachiasmatic nu
VT	Ventral Thalamus
VLG	Ventro Lateral Geniculate nu
Vi	Visual cortex

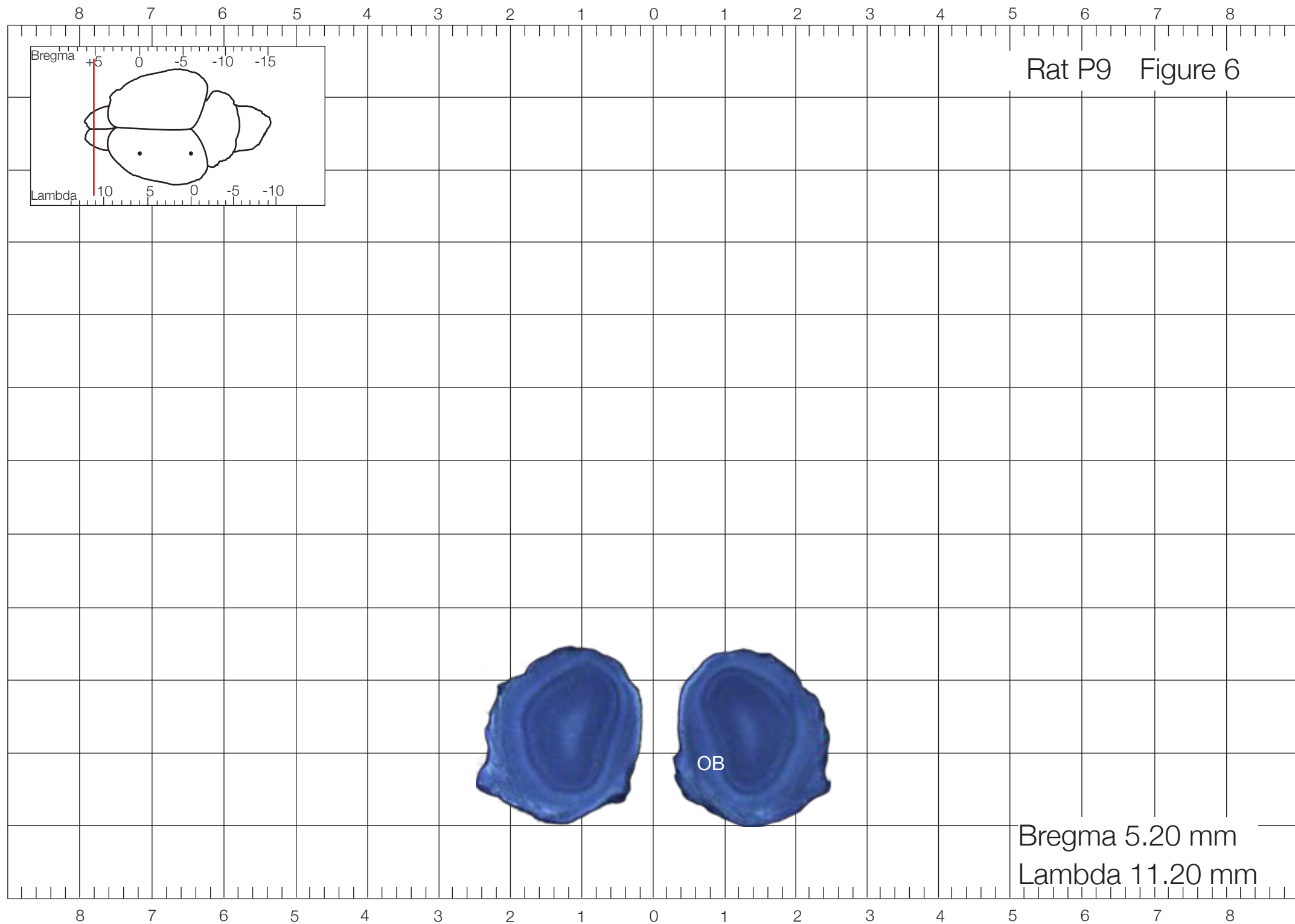
Bregma

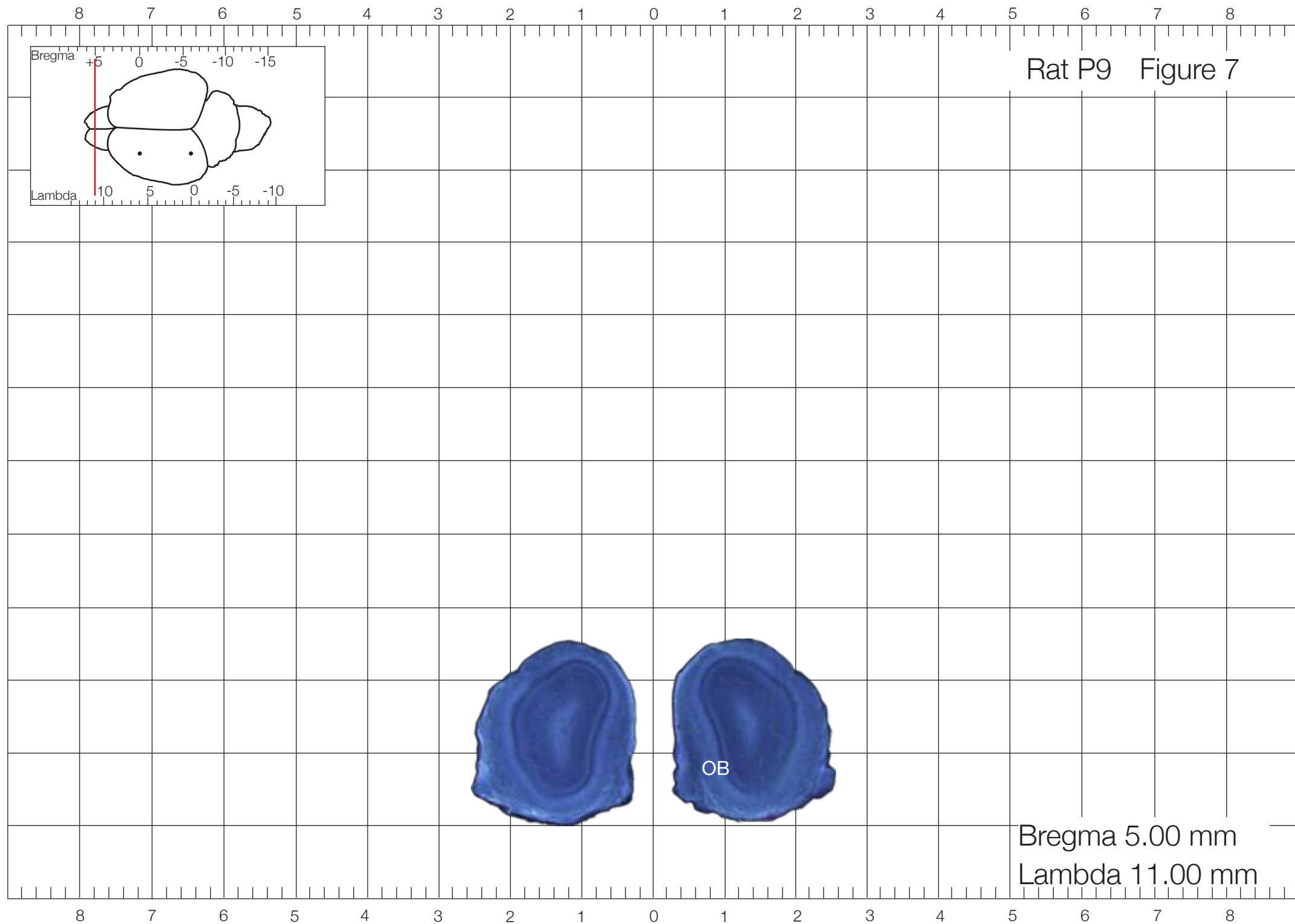
Lambda

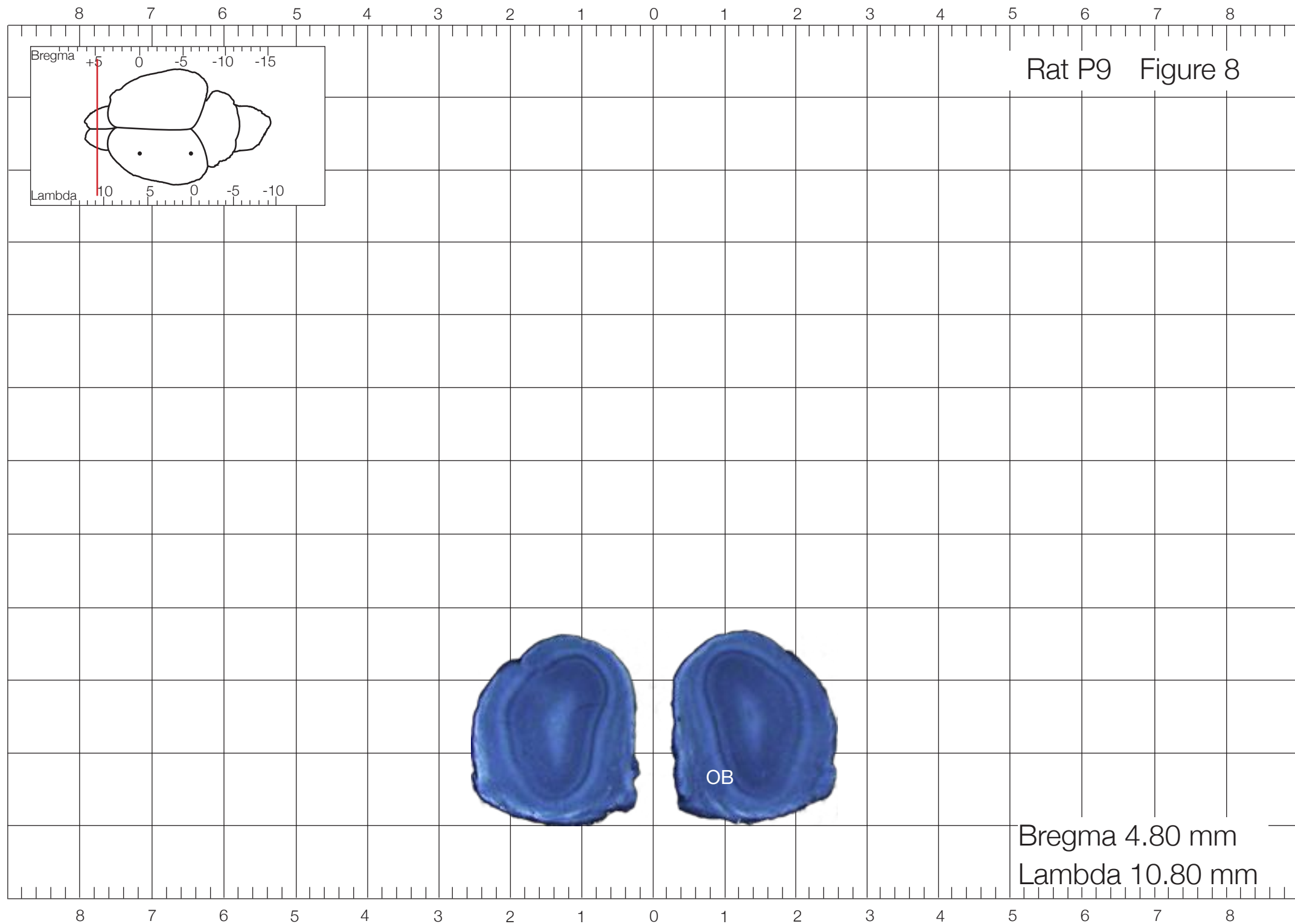
Rat P9

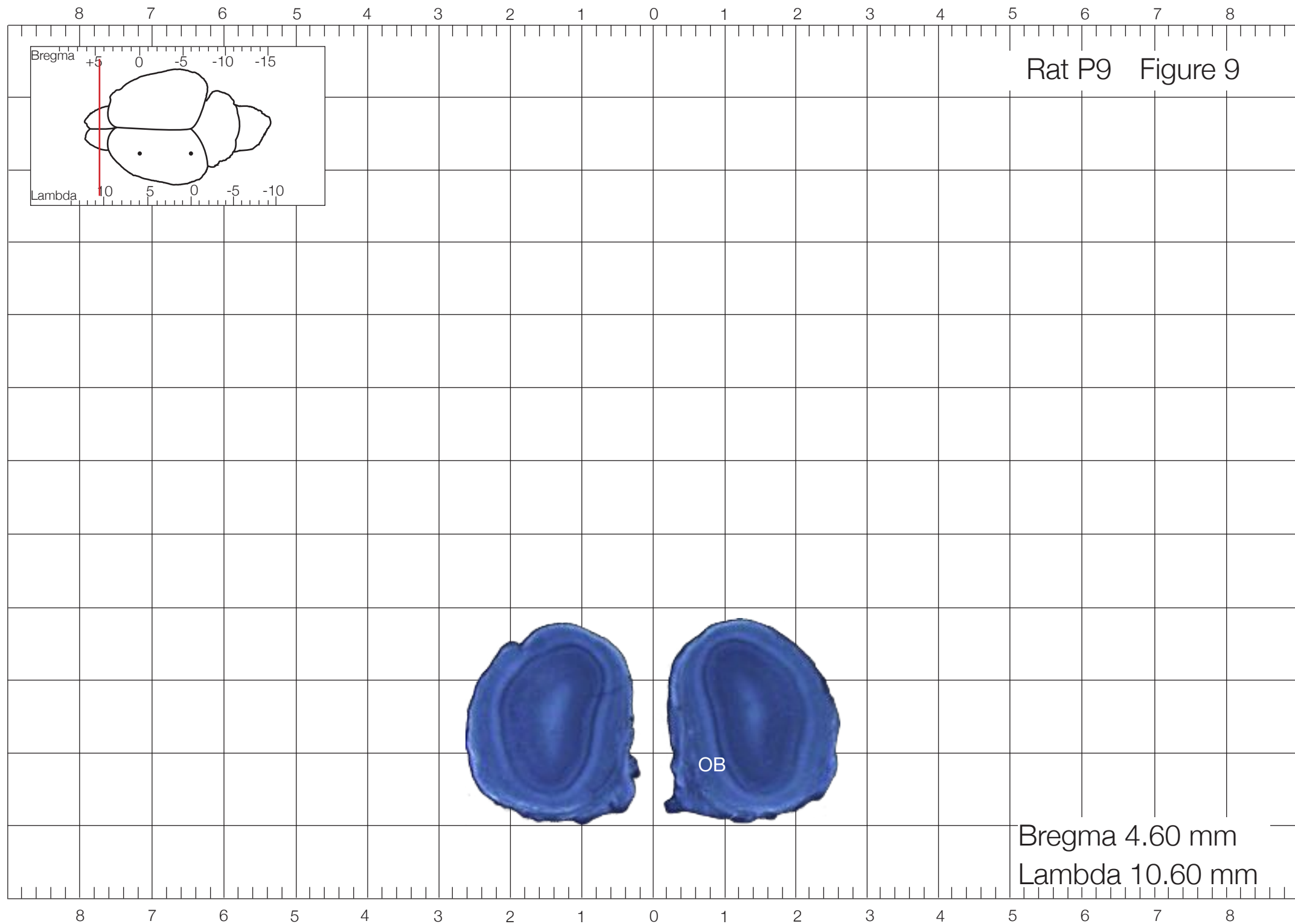


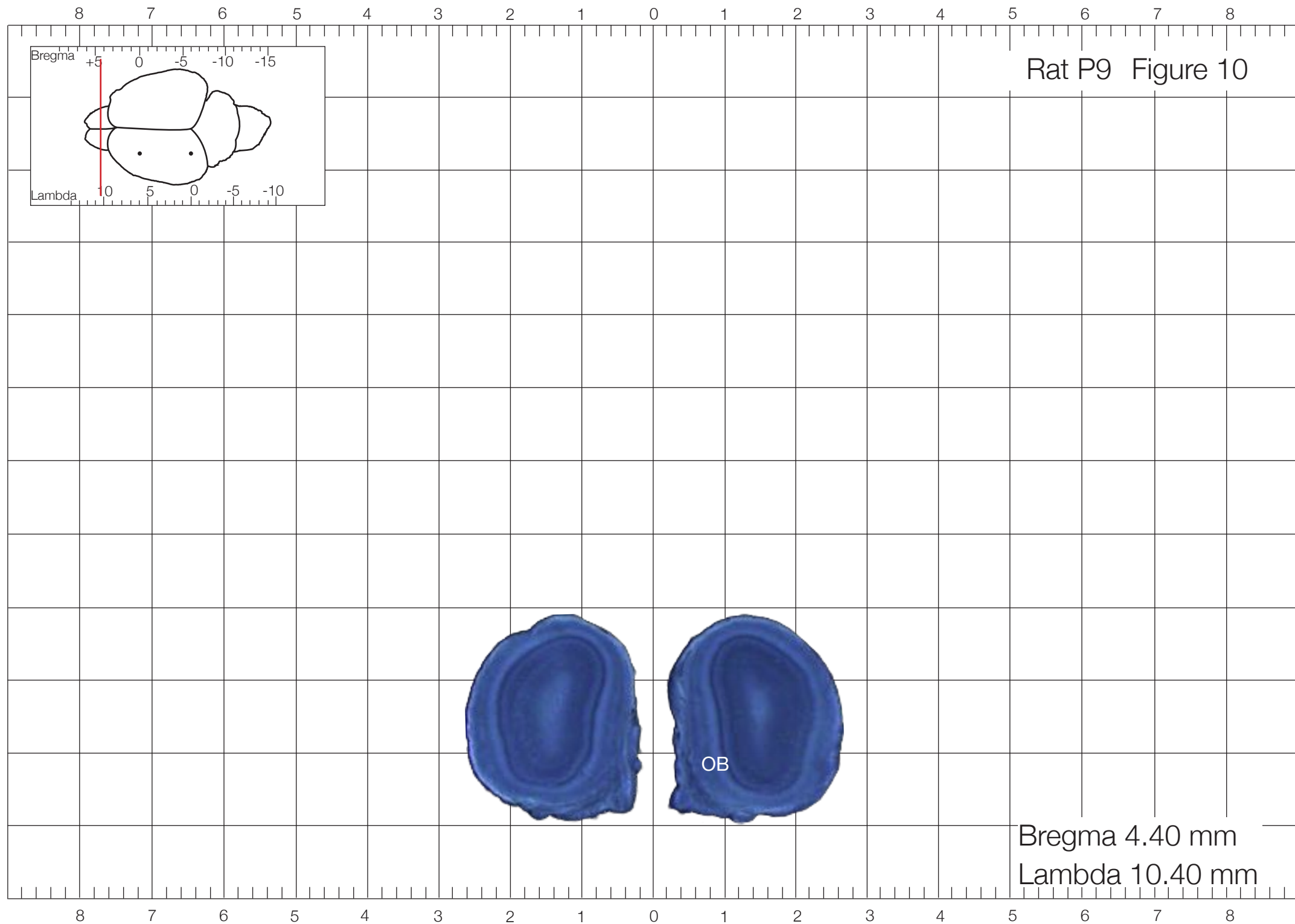


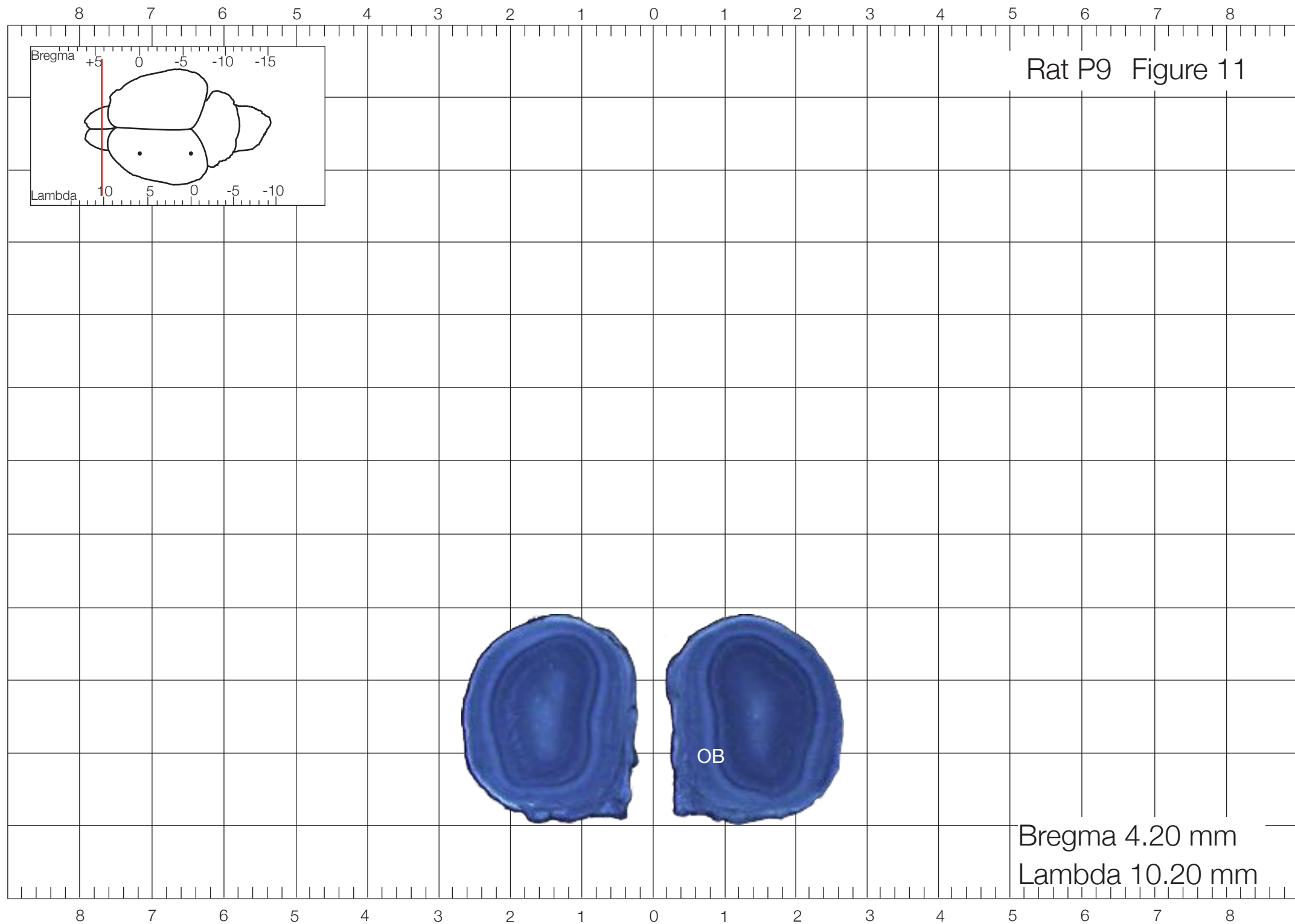


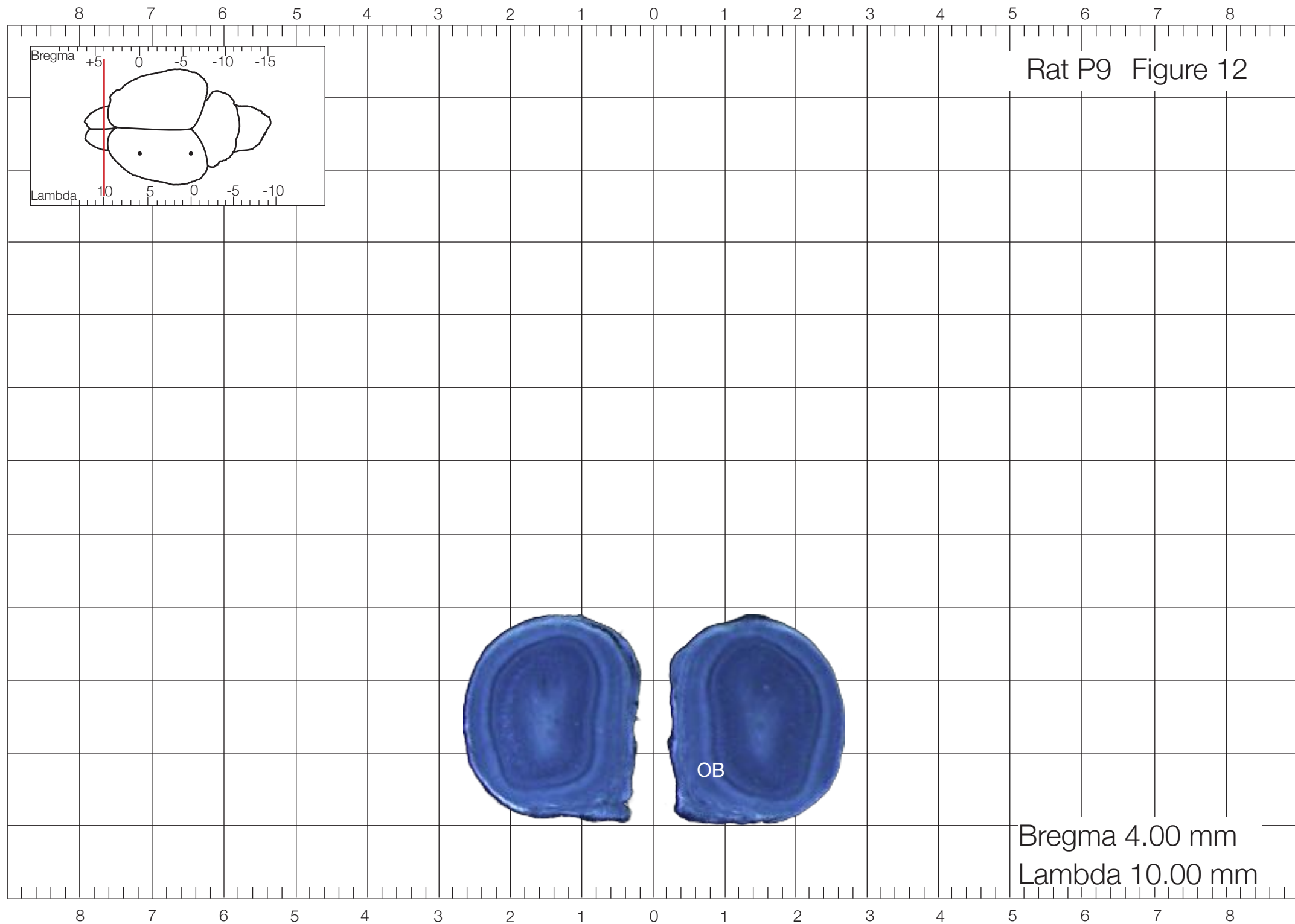


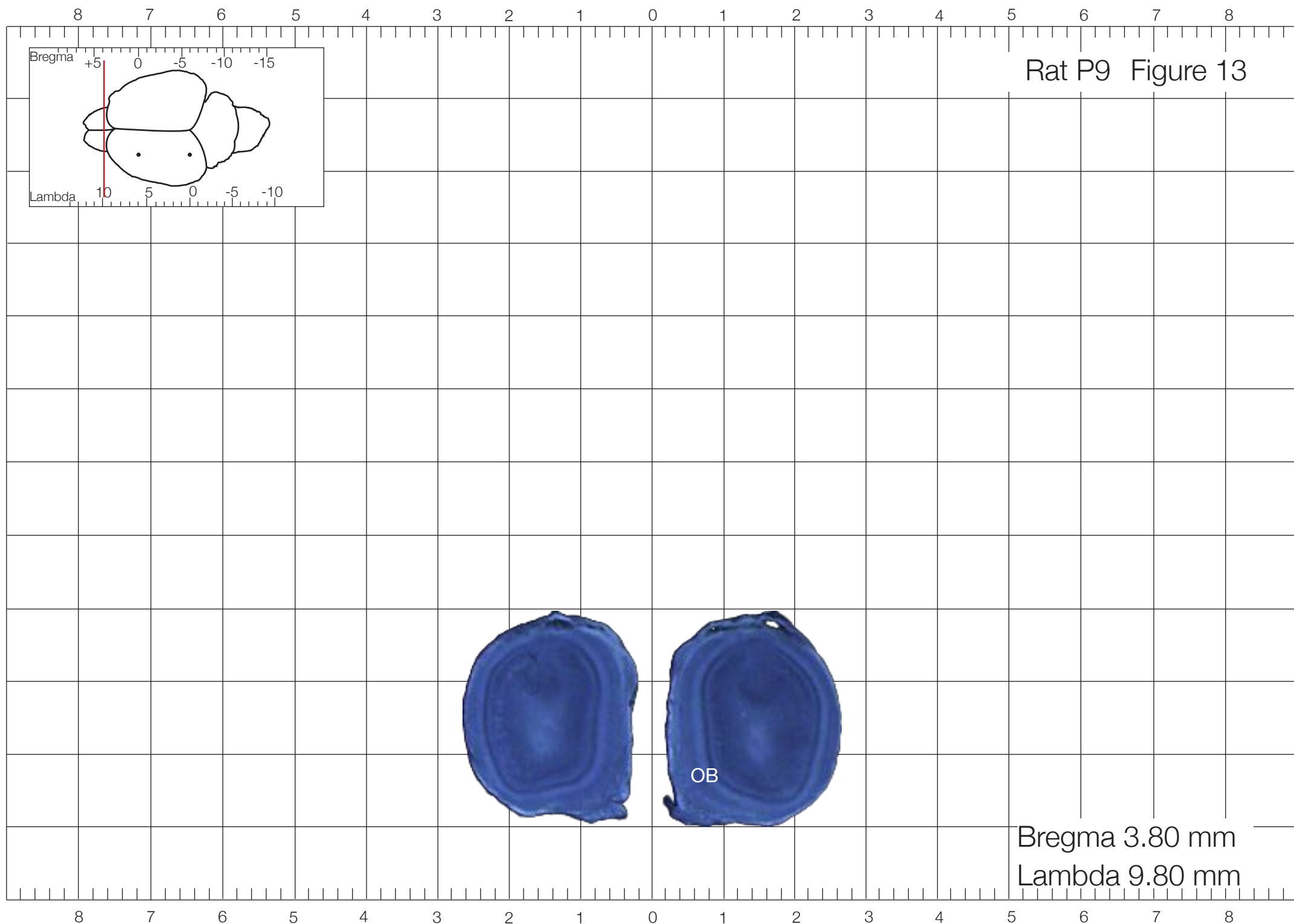


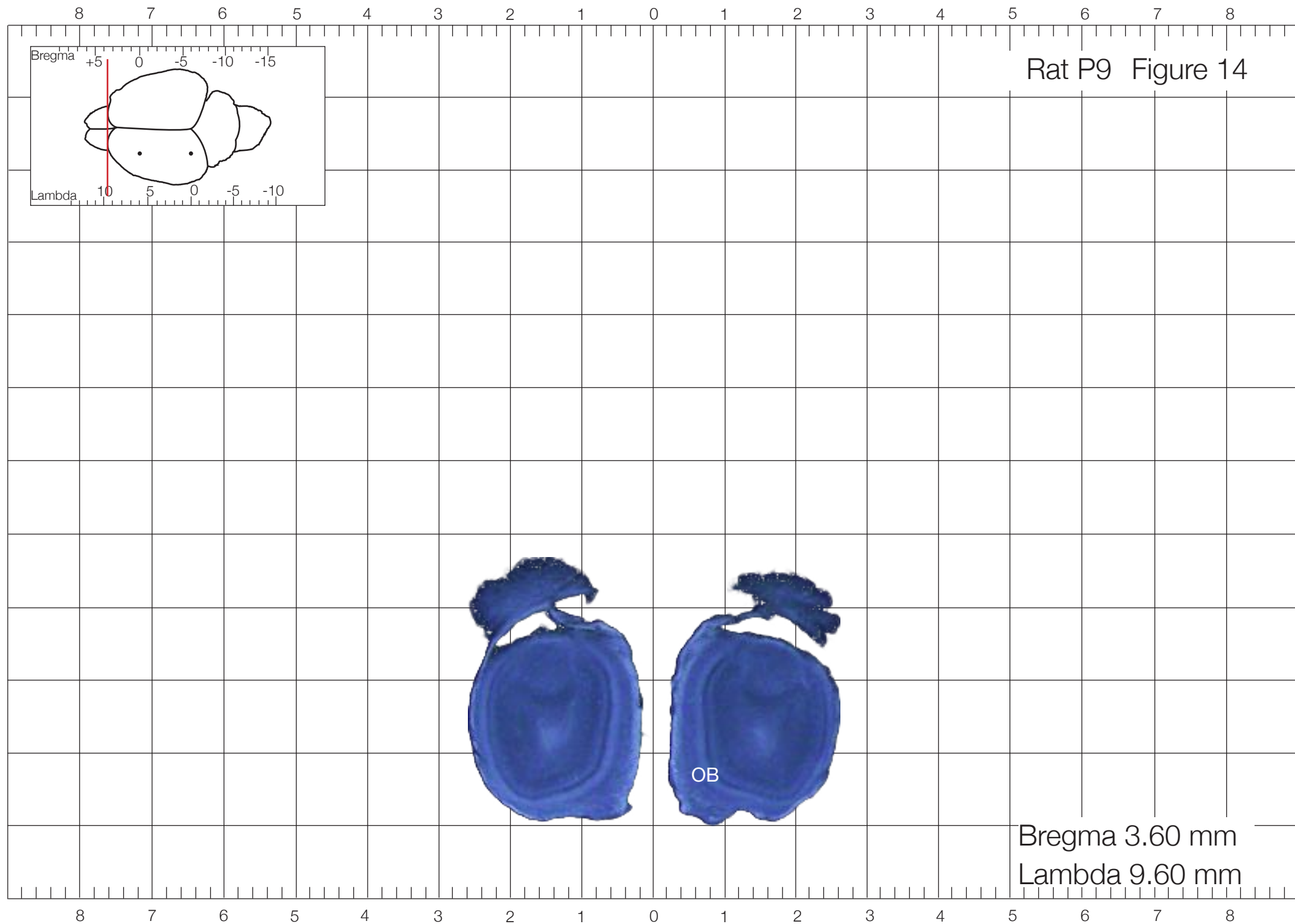


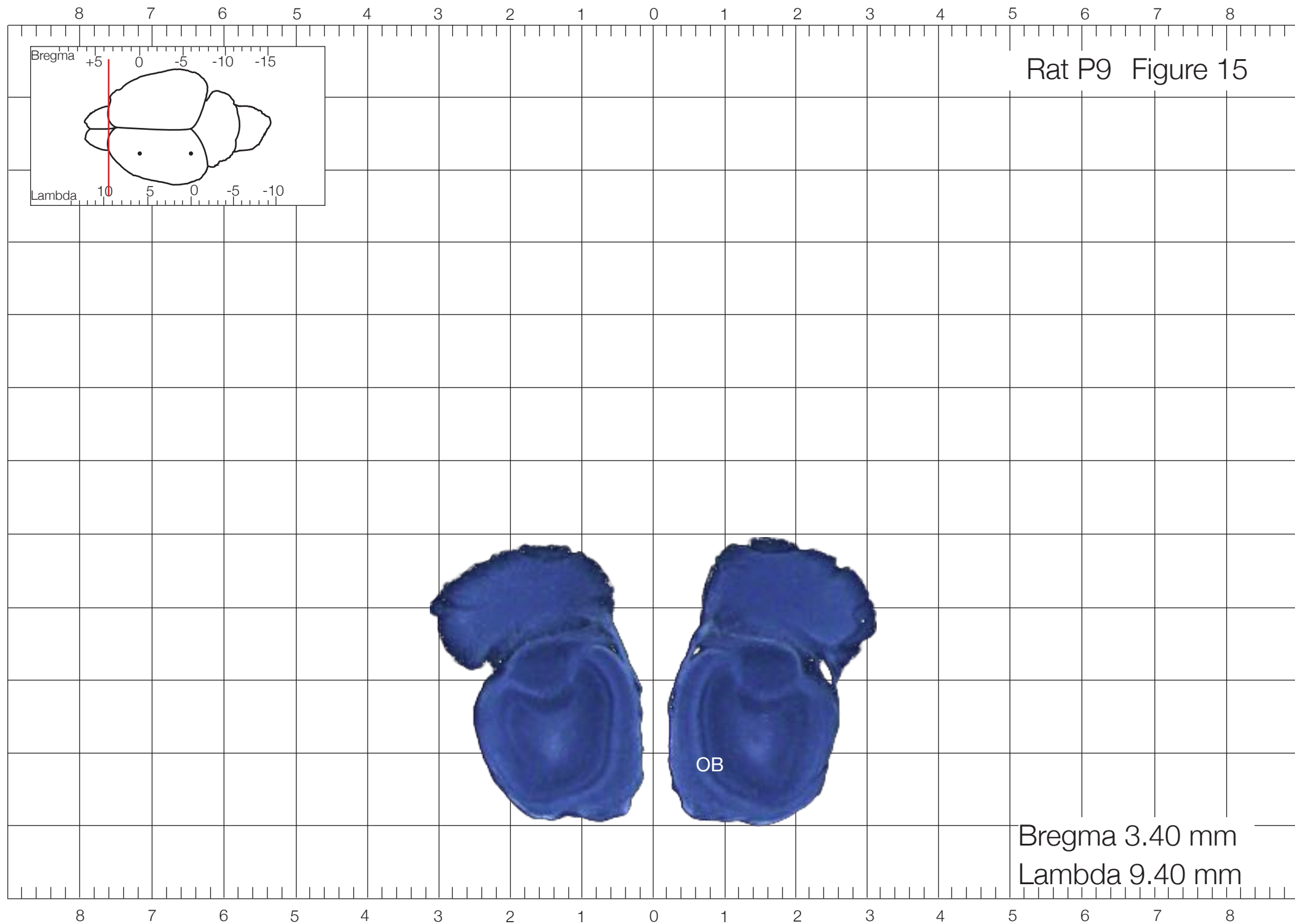


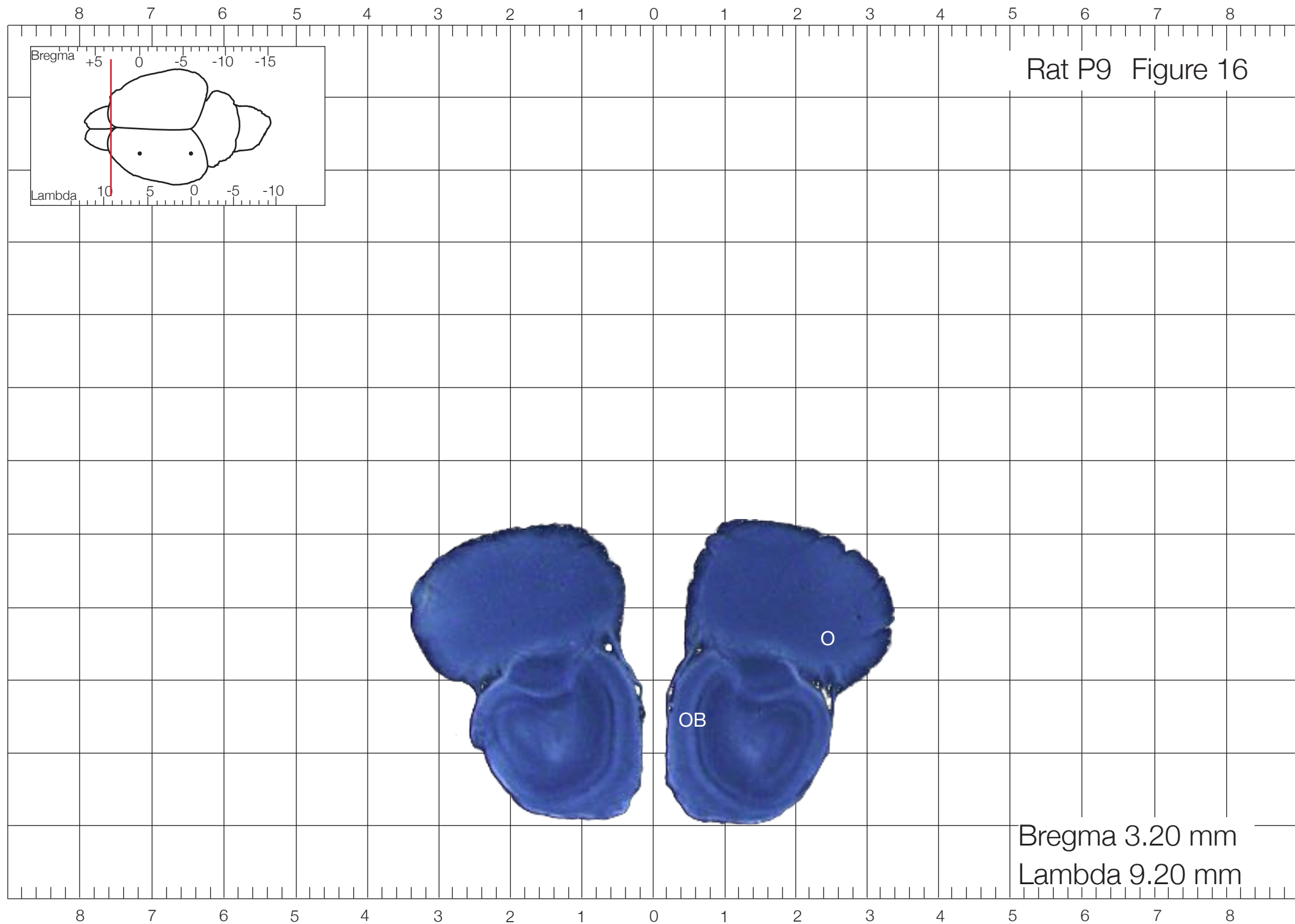


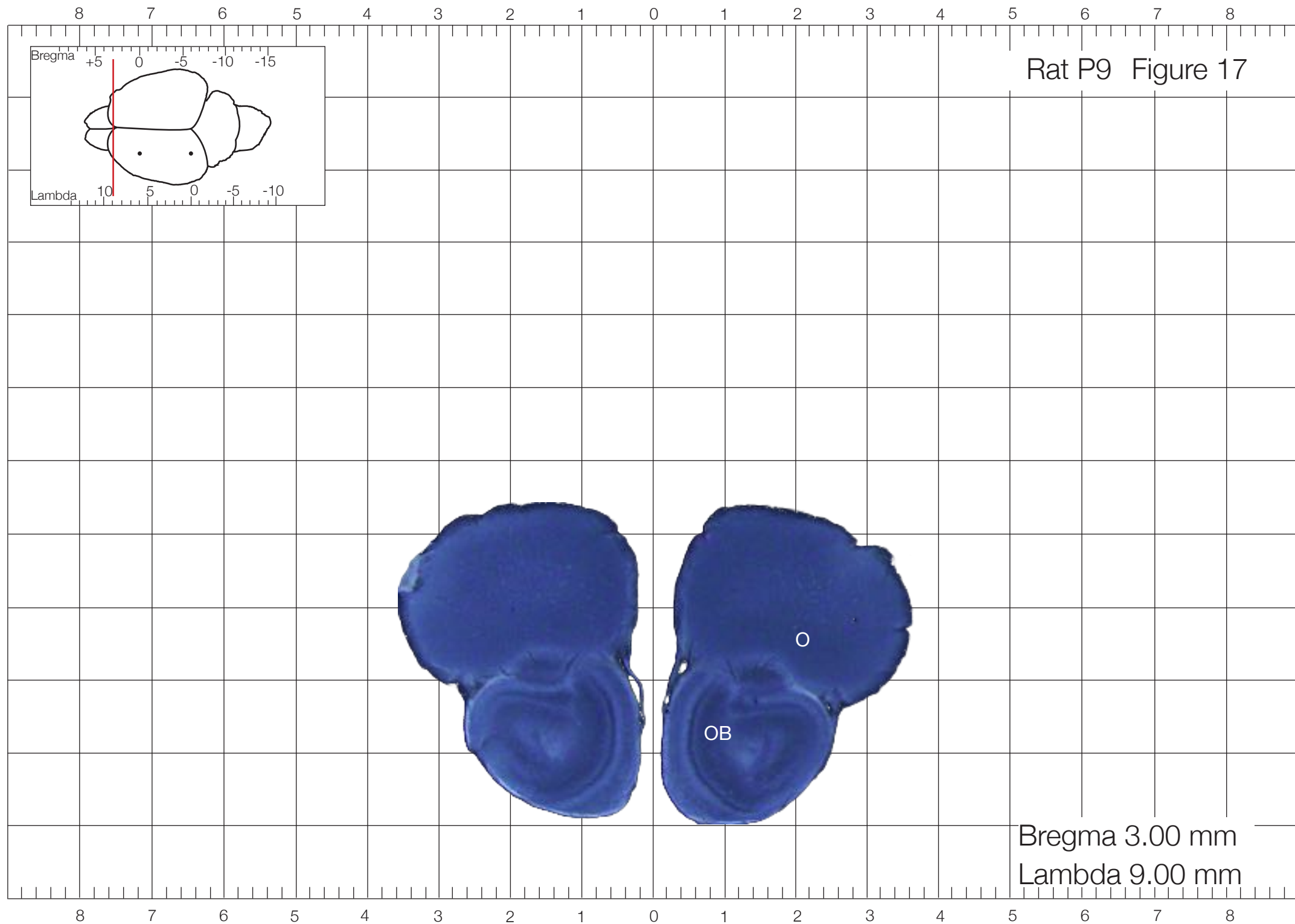


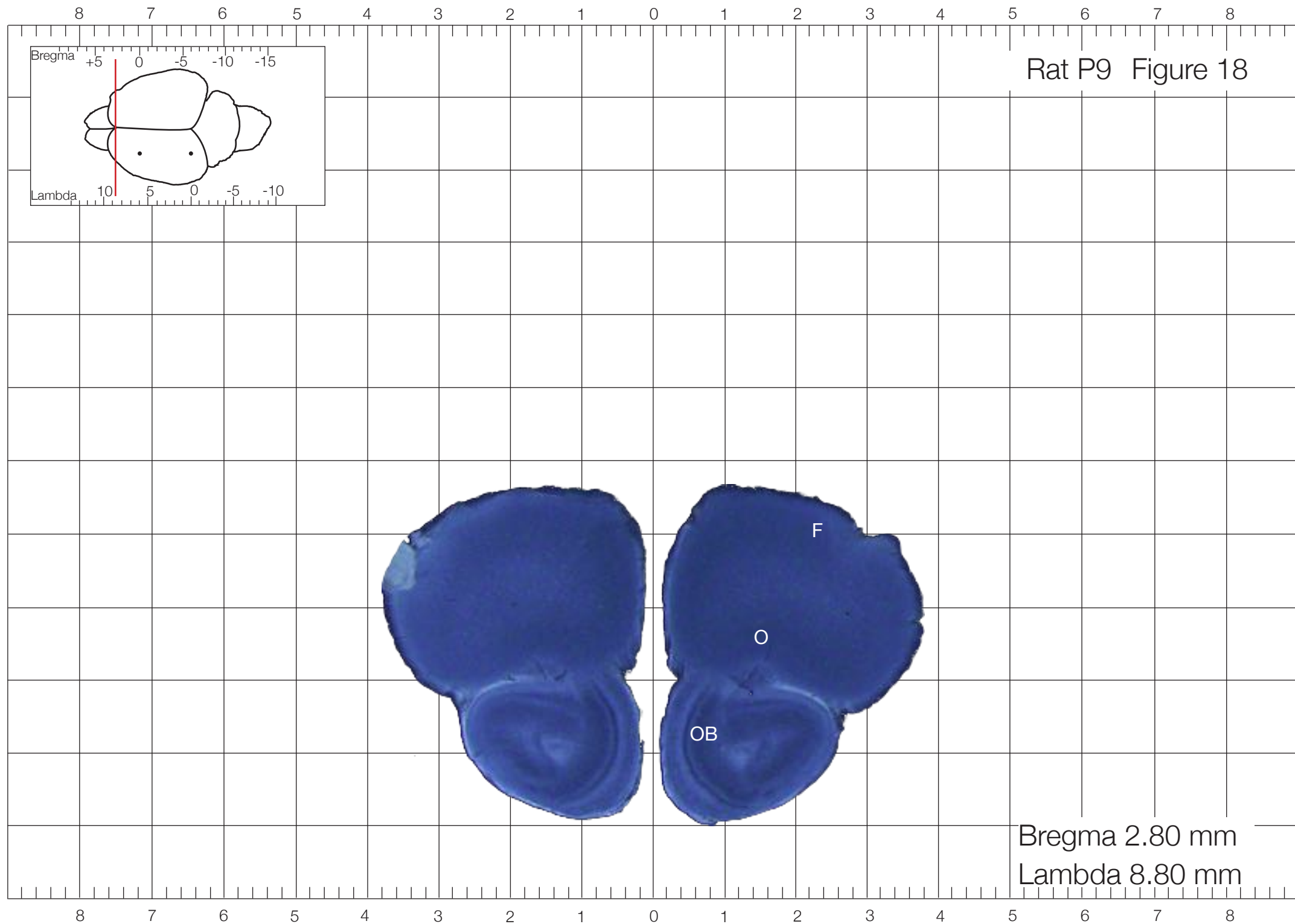


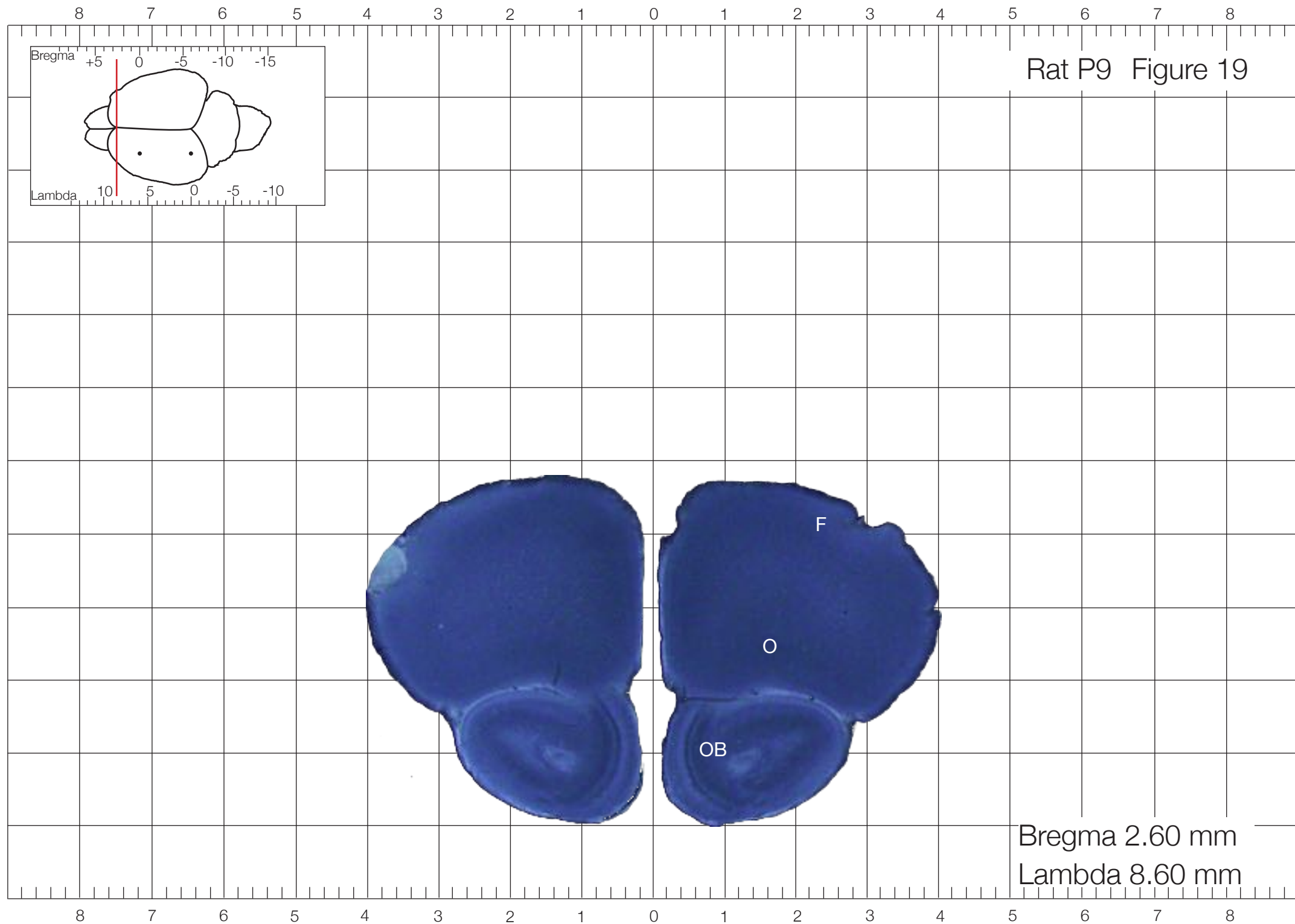


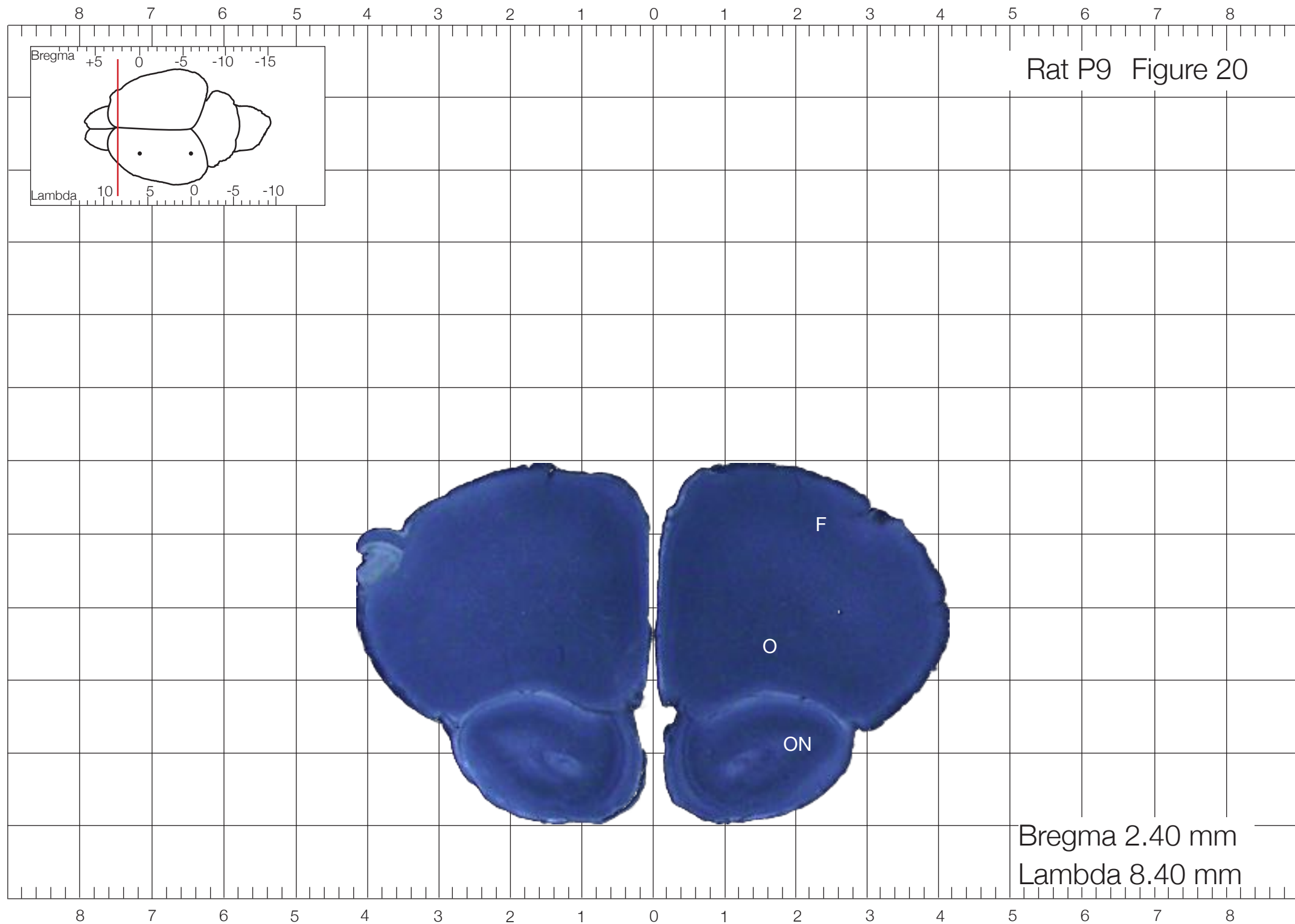


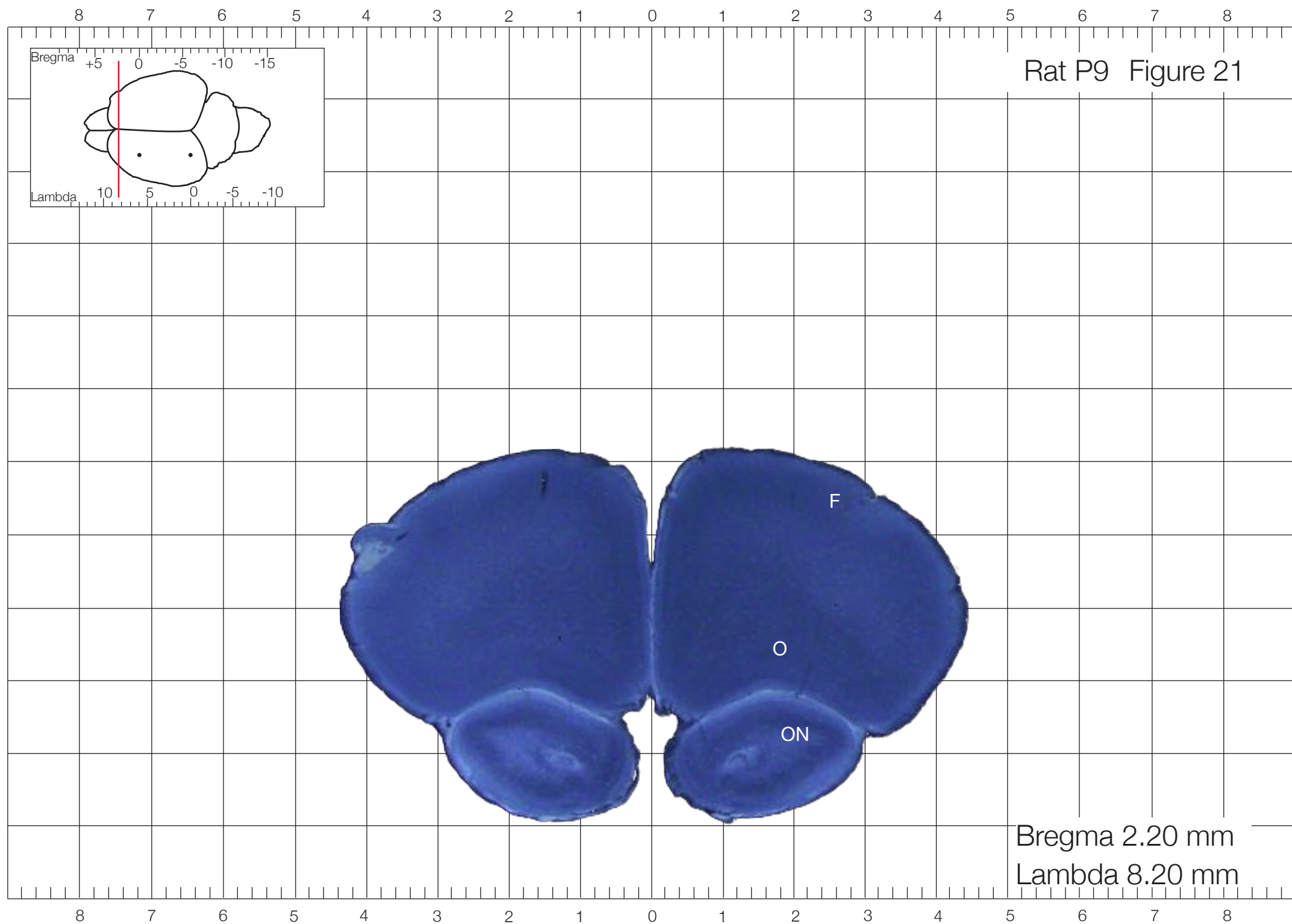


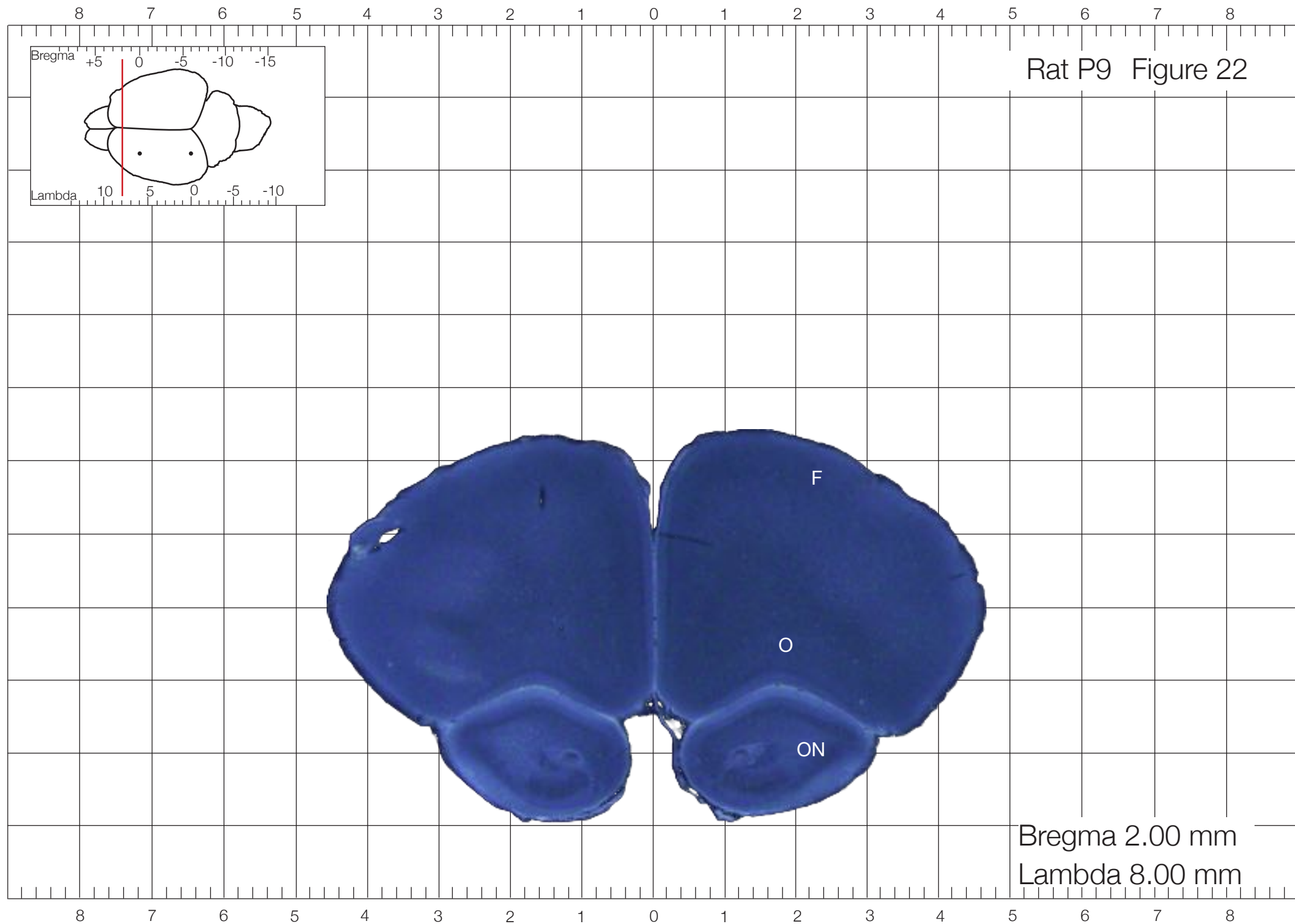


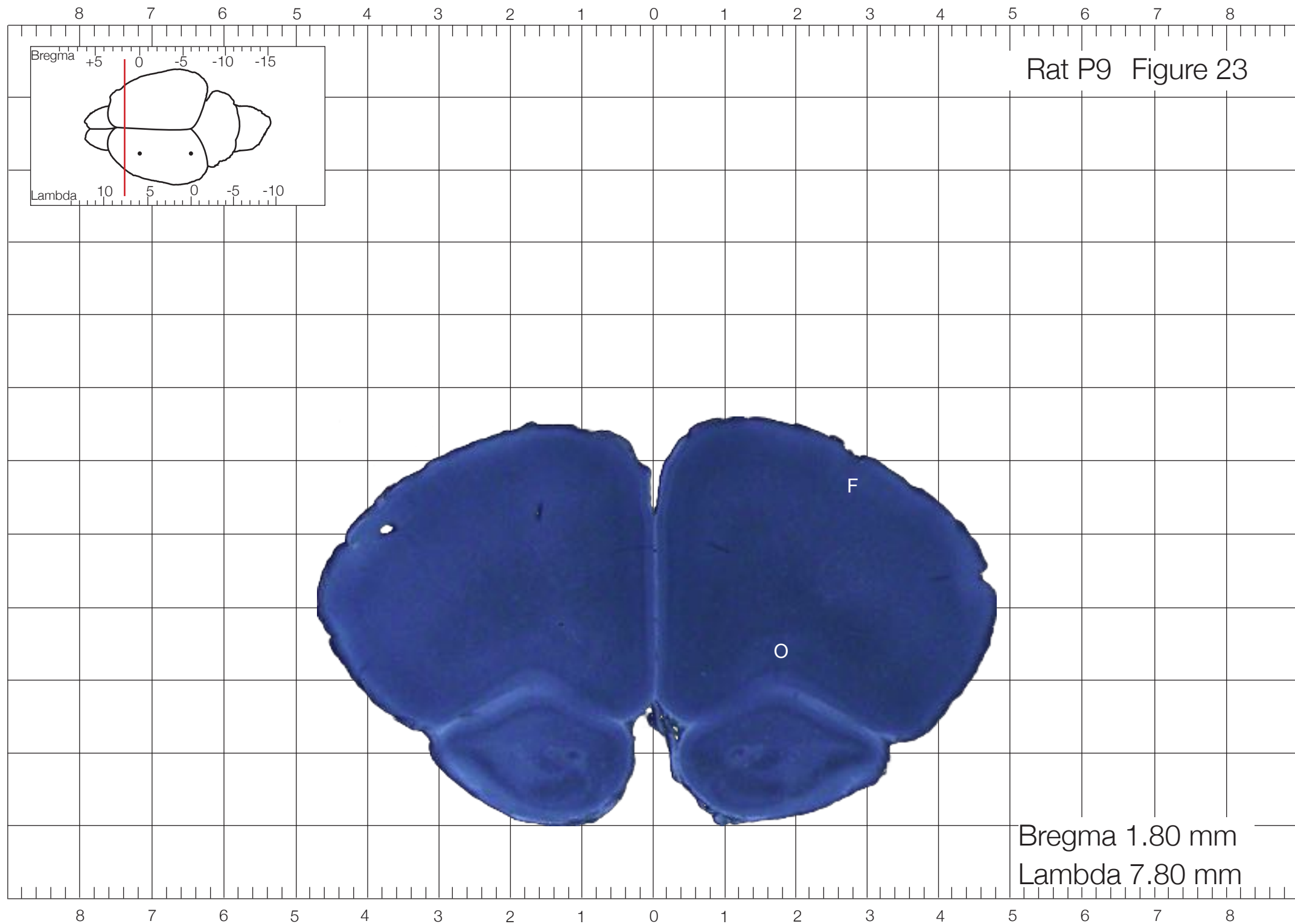


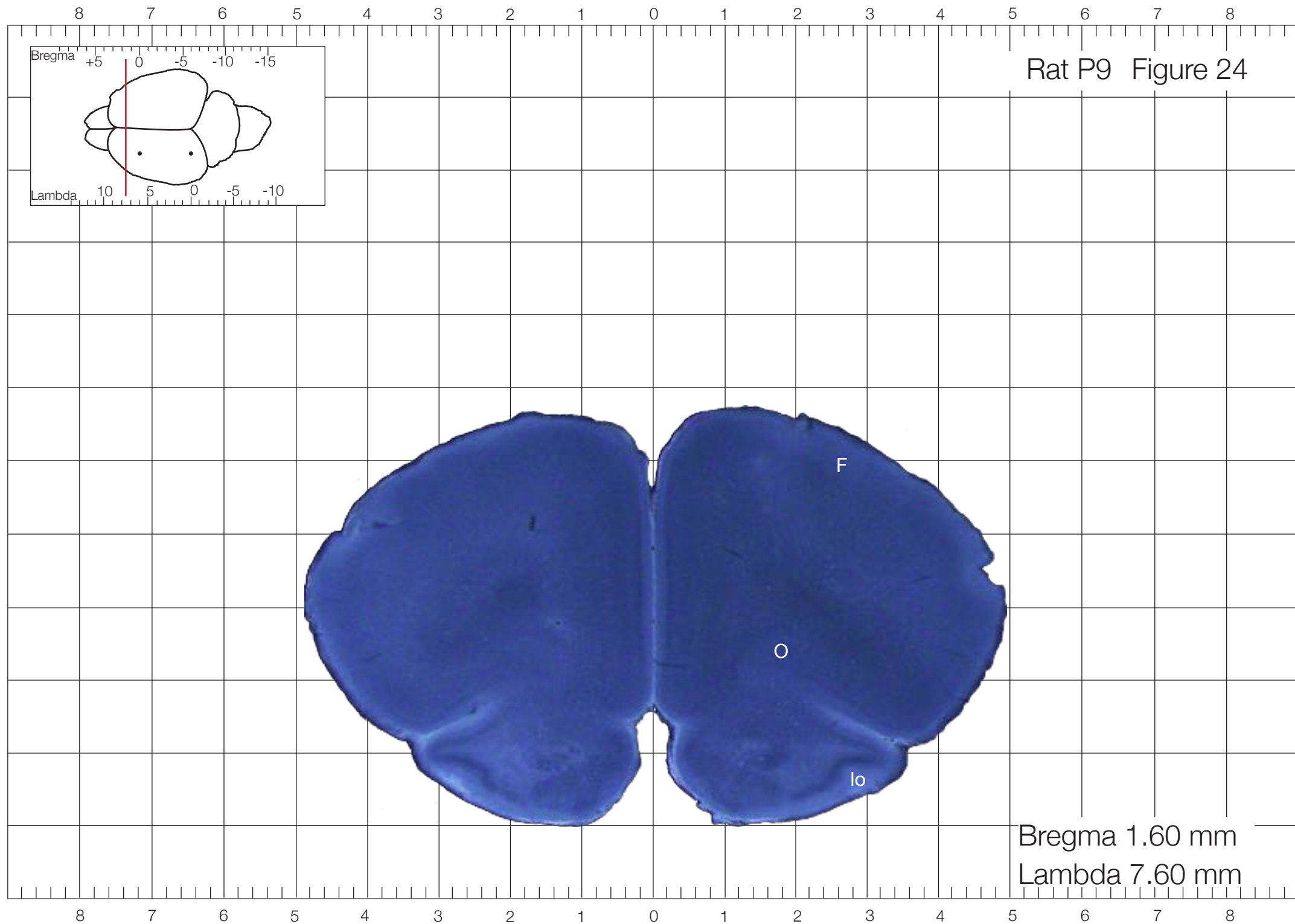


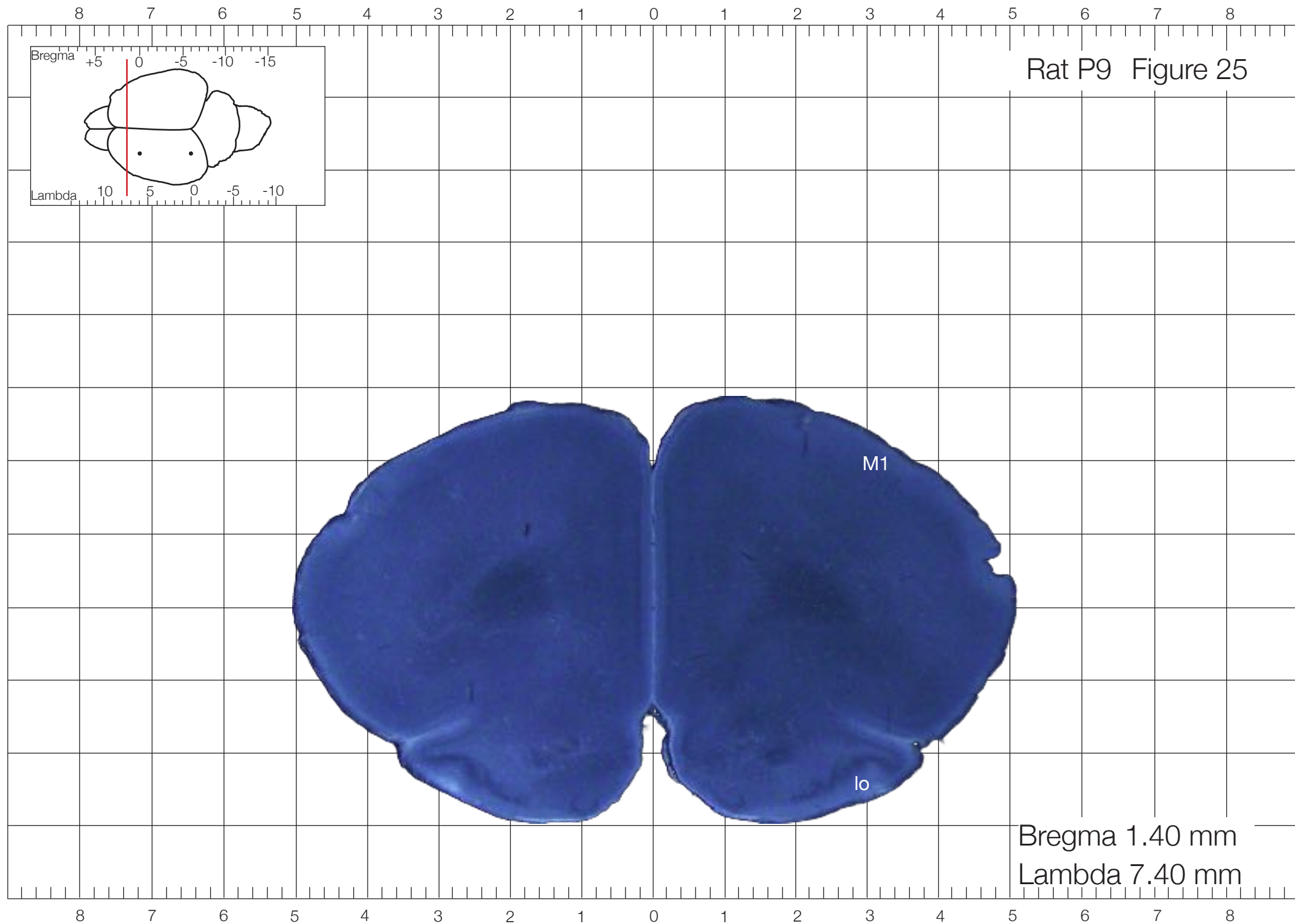


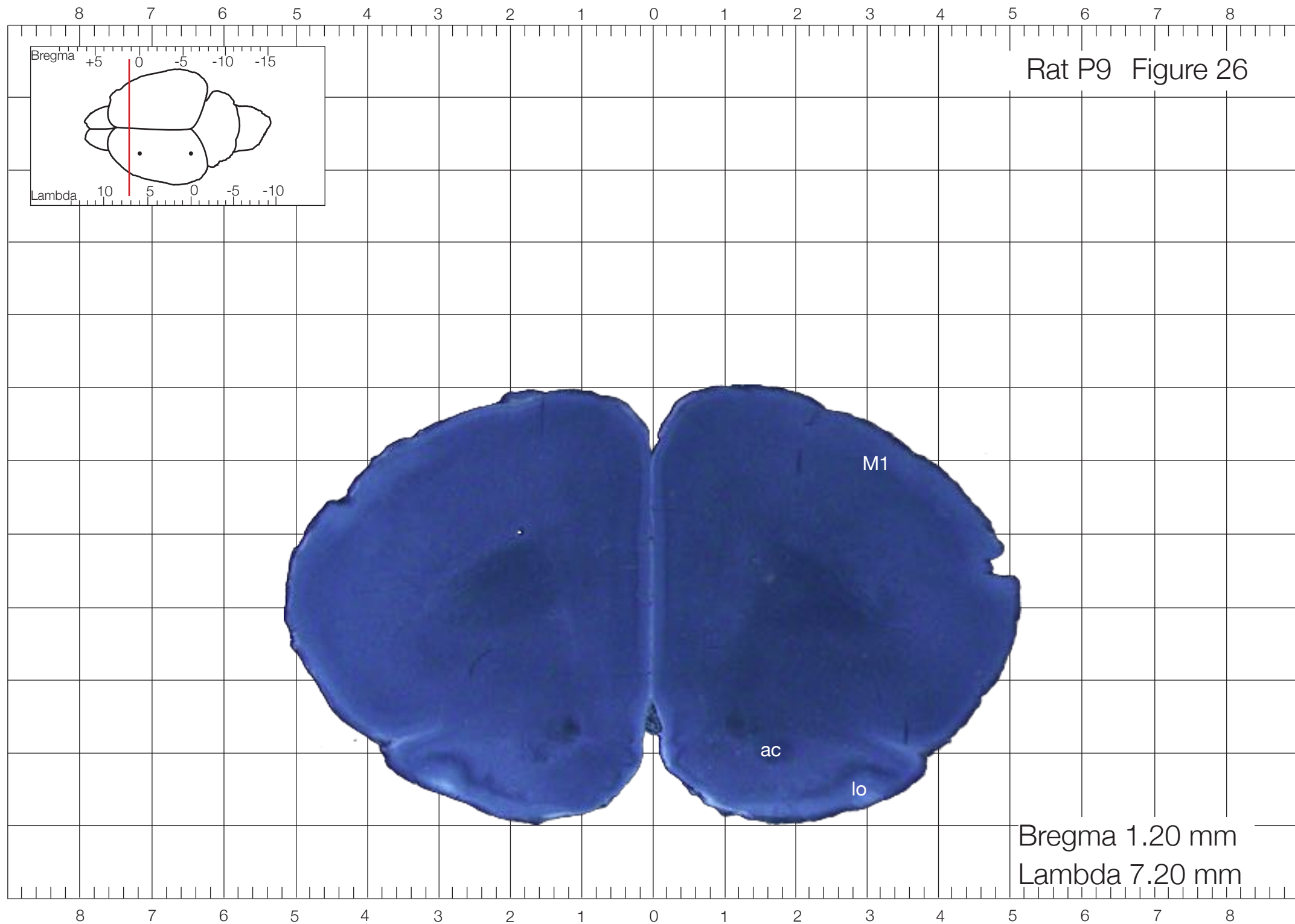


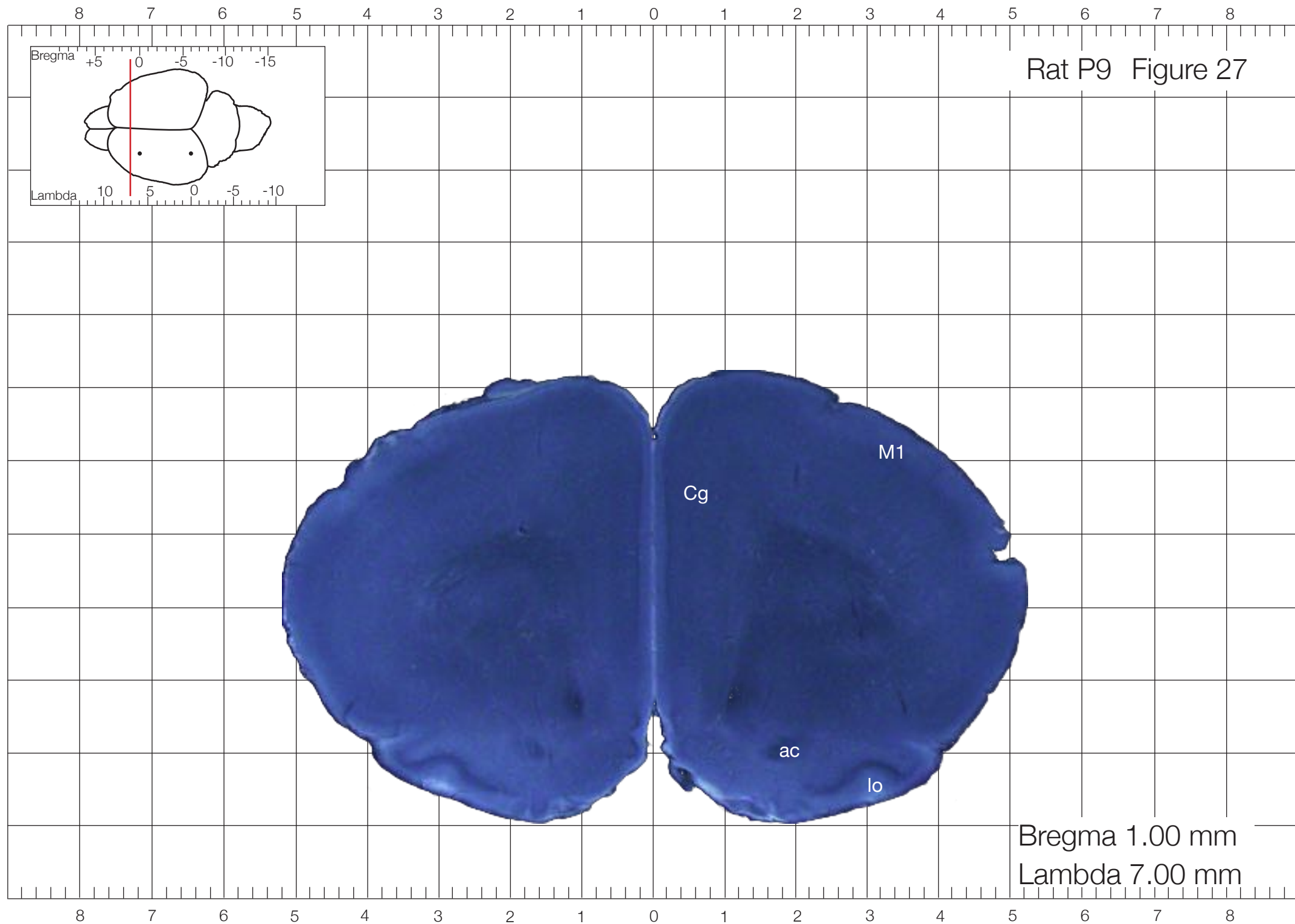


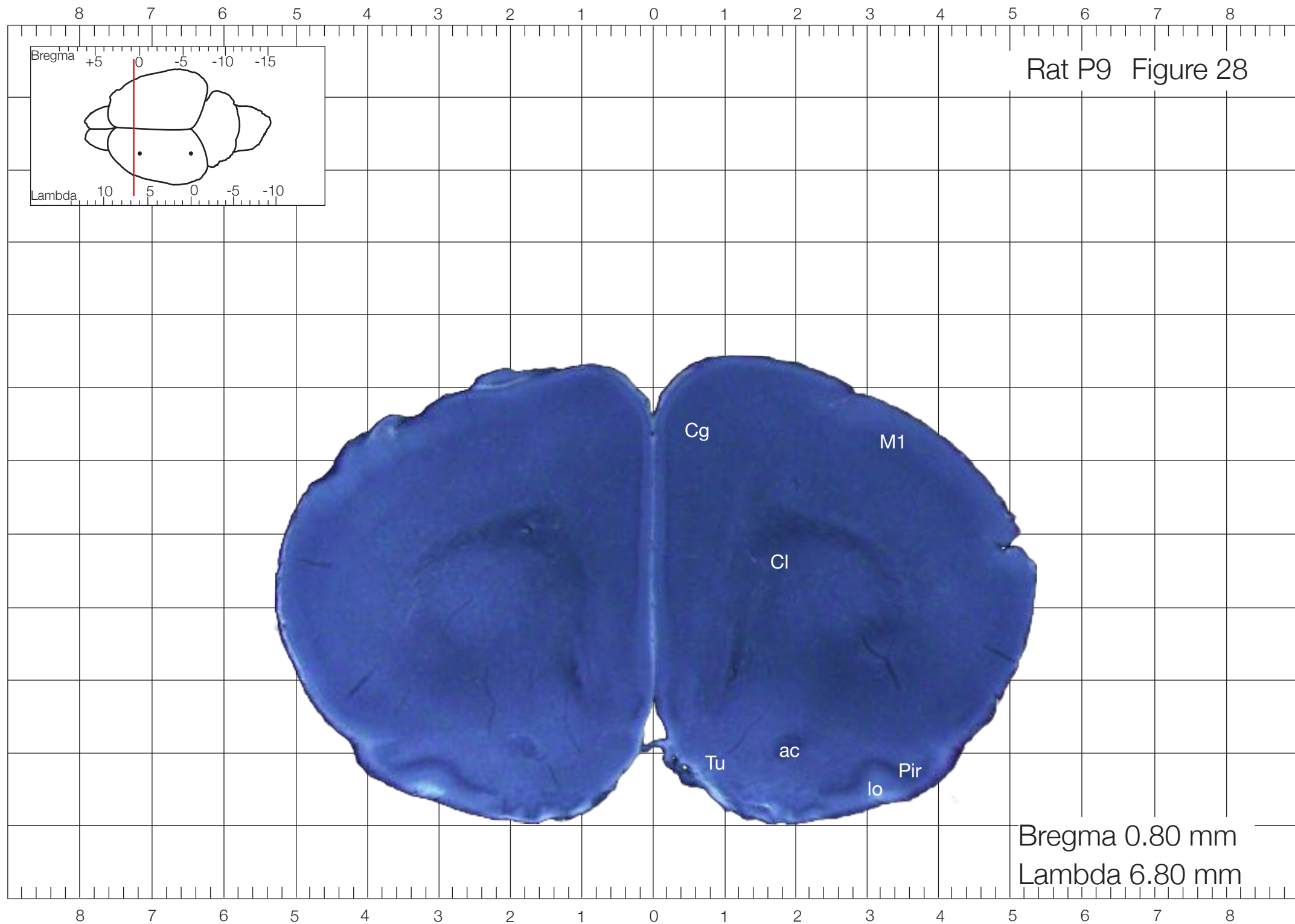


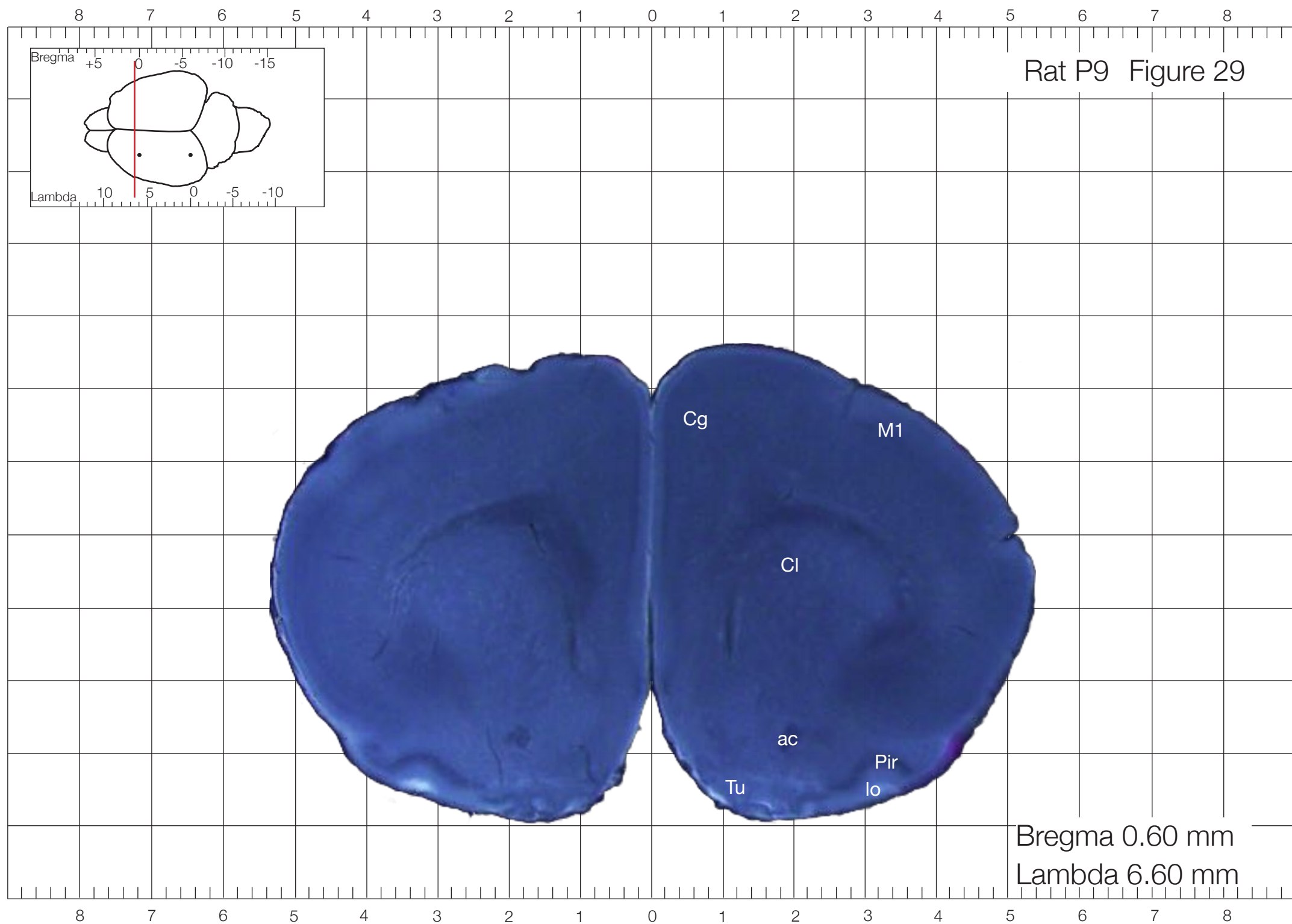


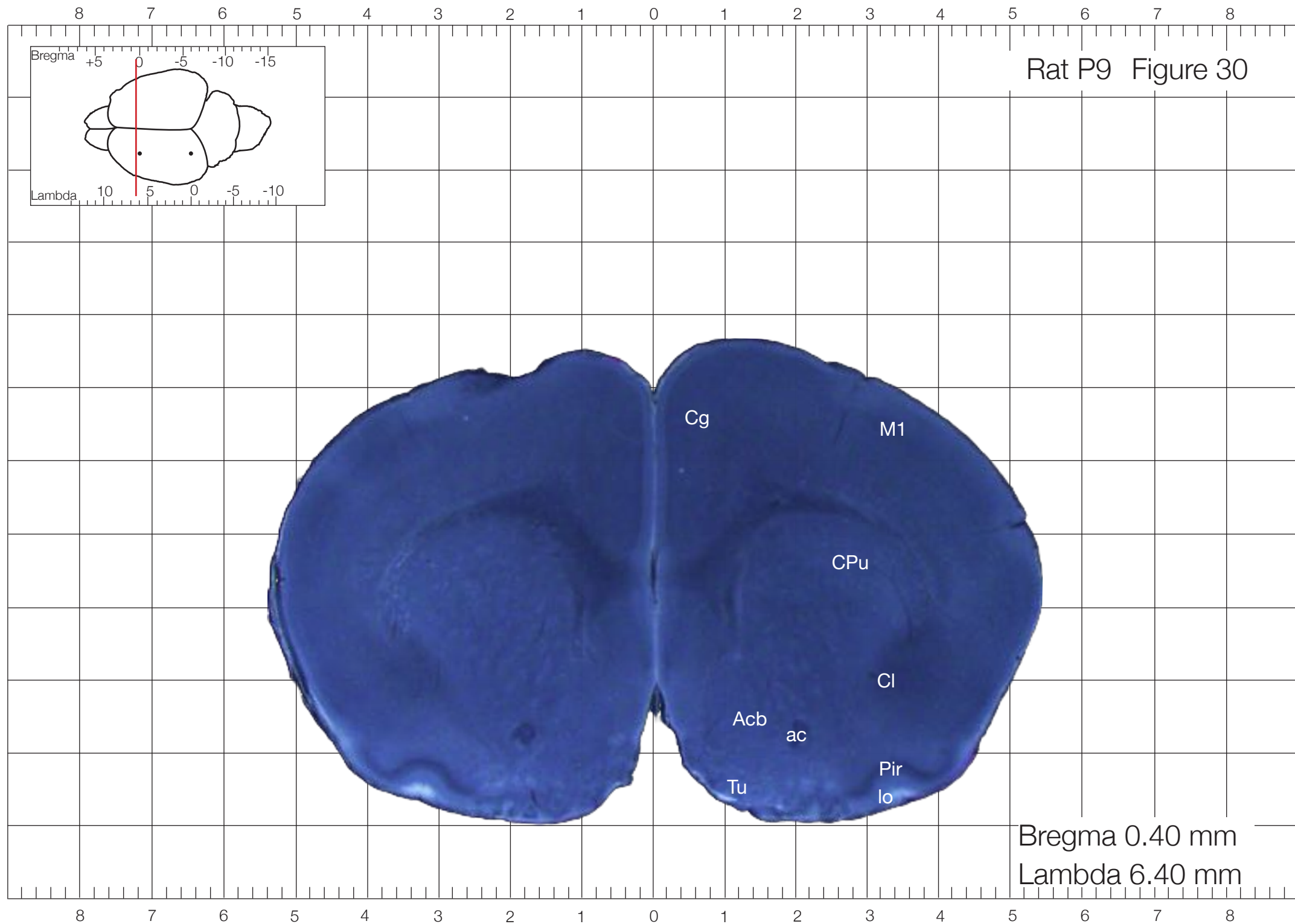


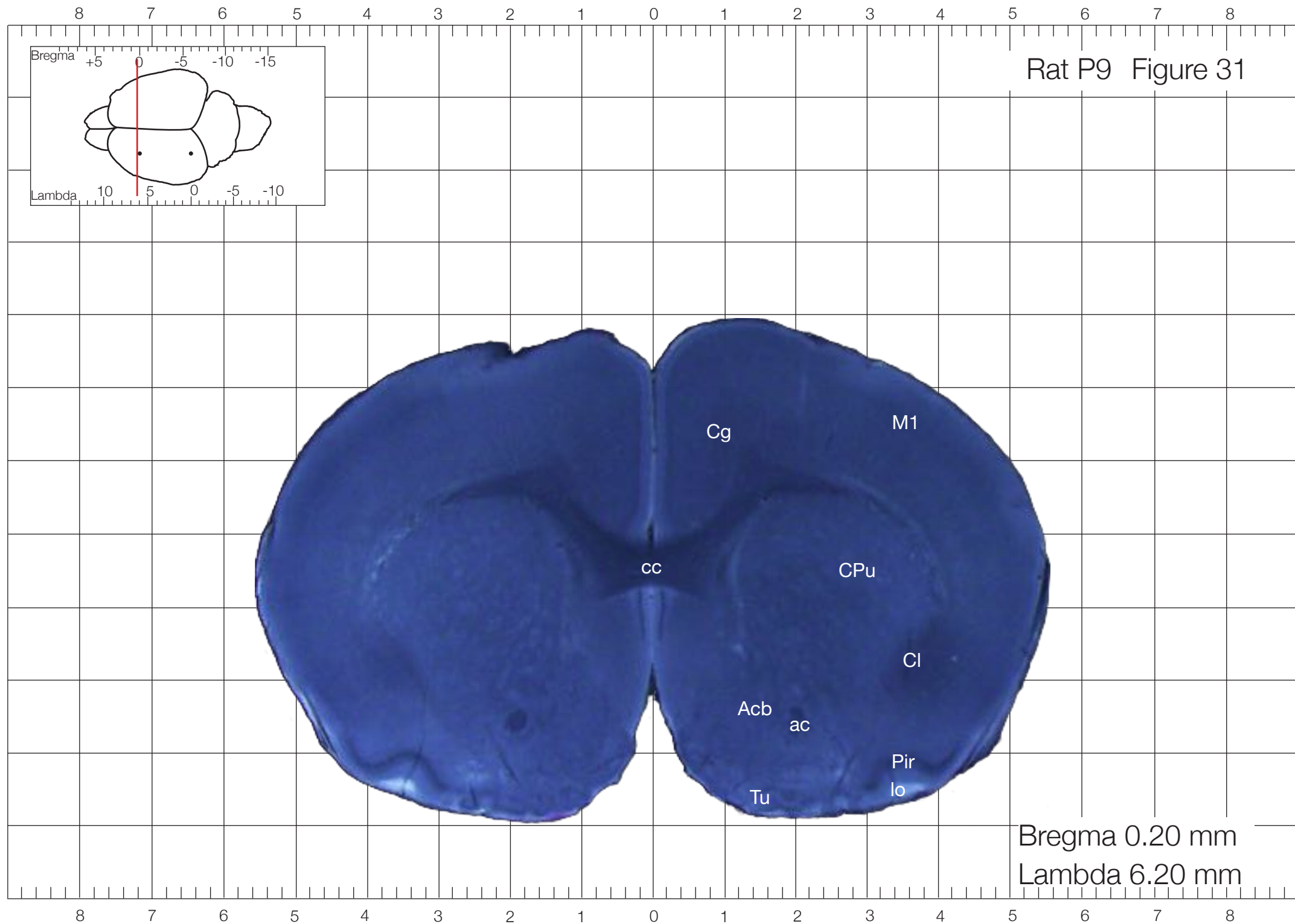


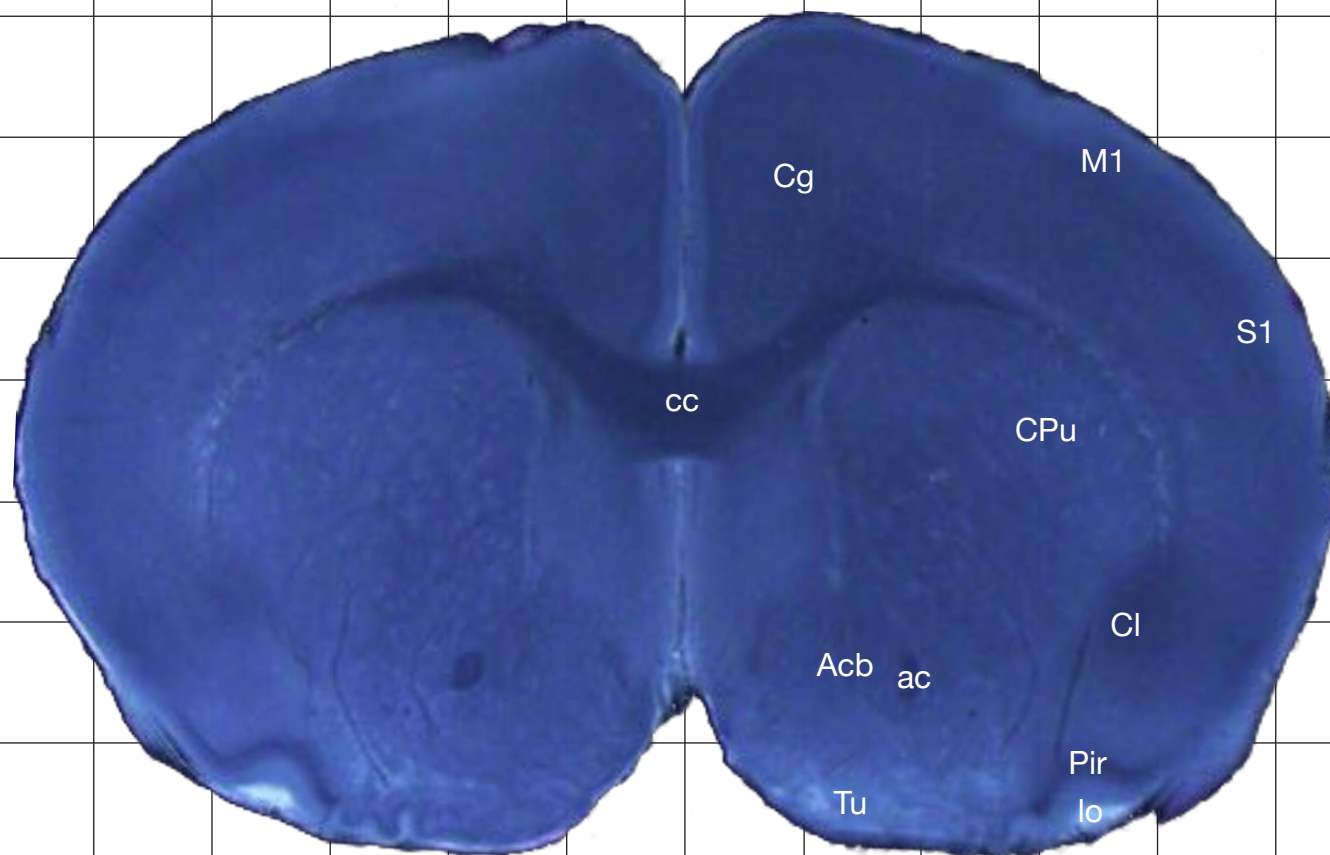
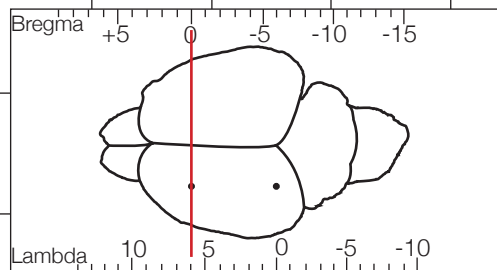




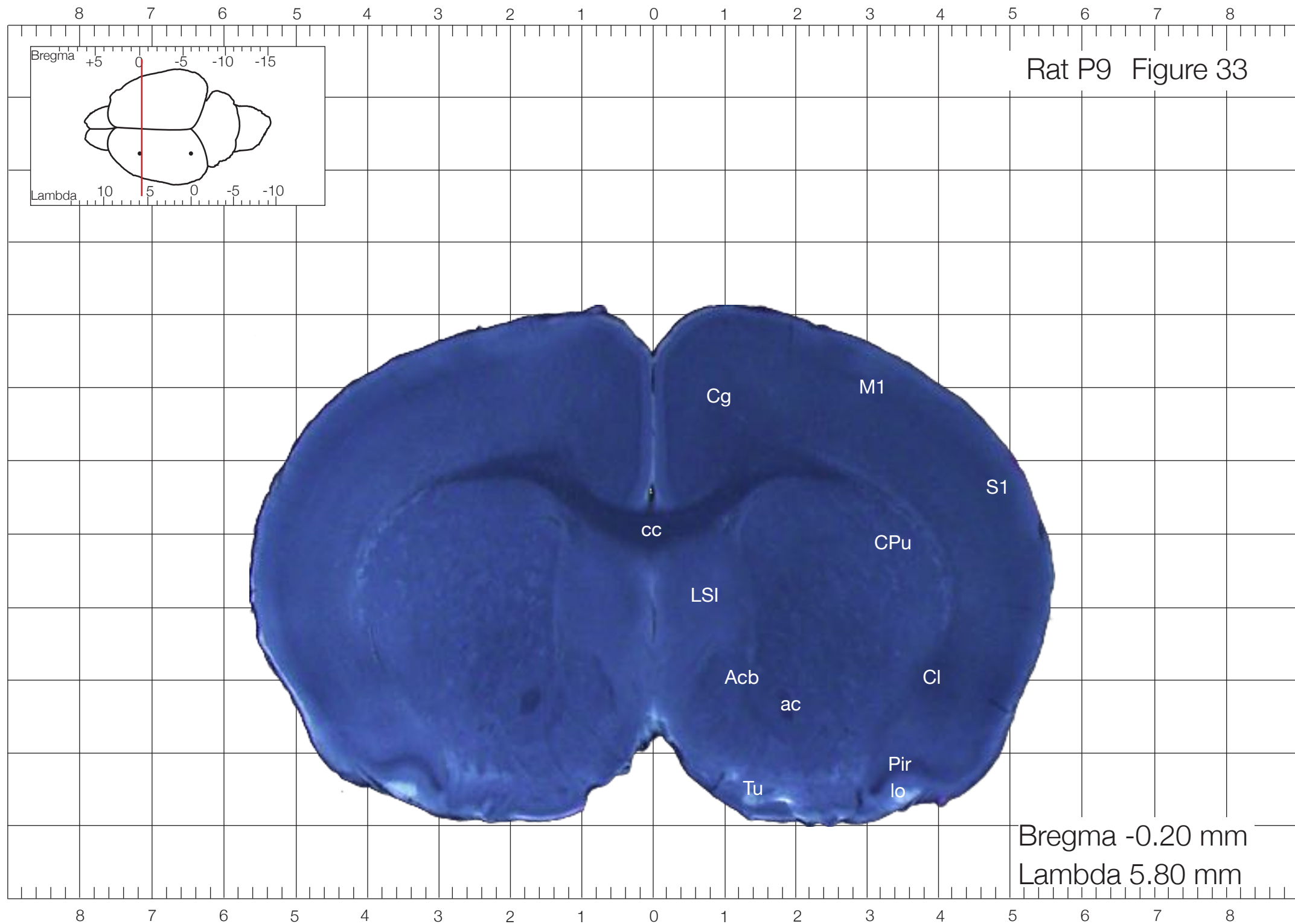


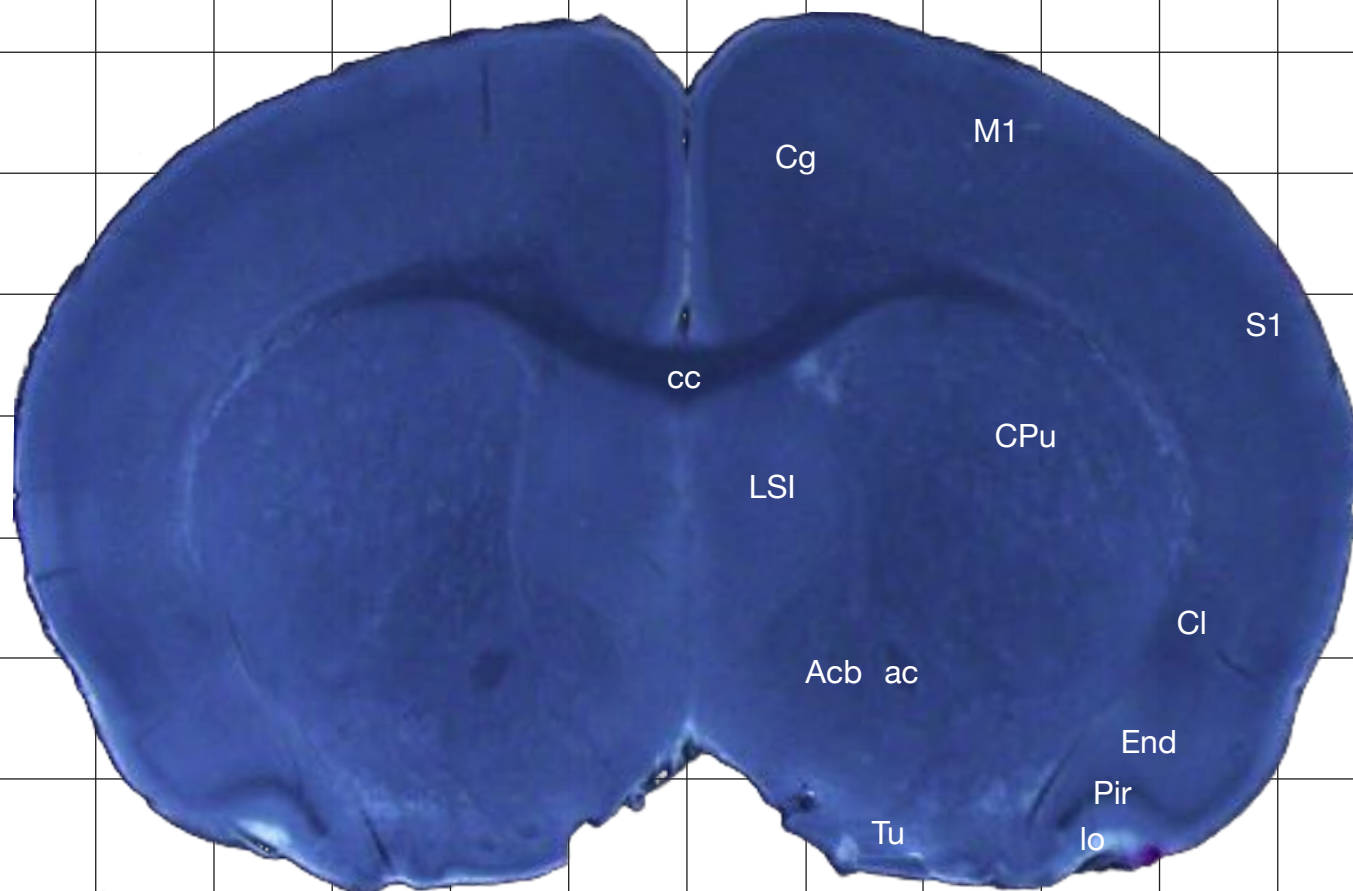
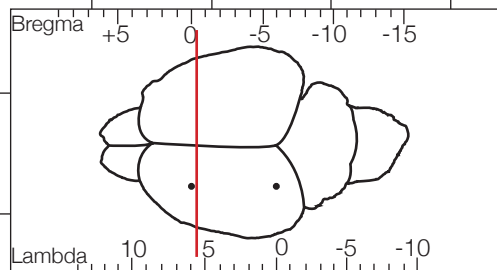




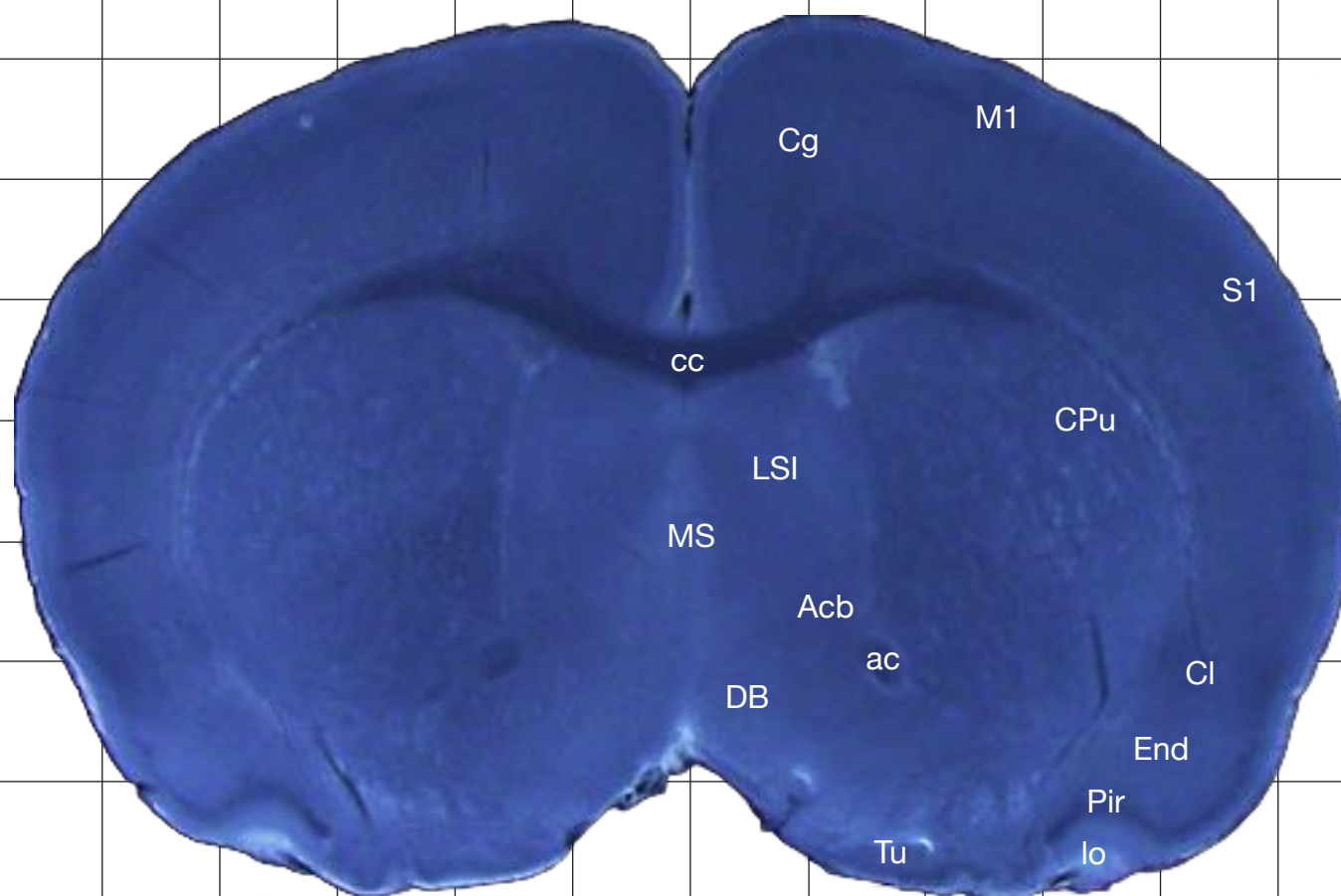
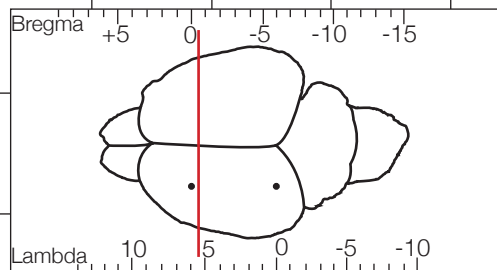


Bregma 0.00 mm
Lambda 6.00 mm

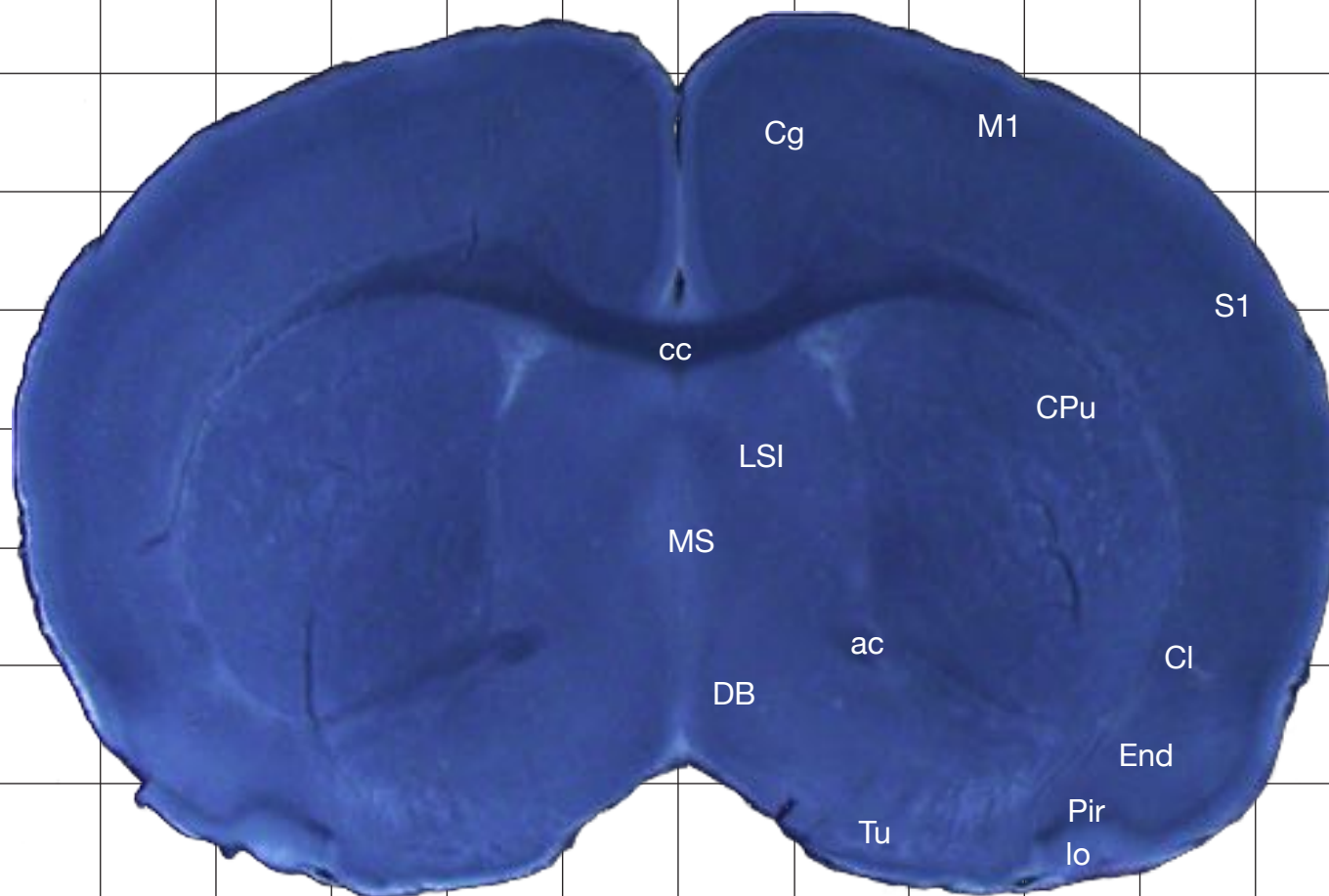
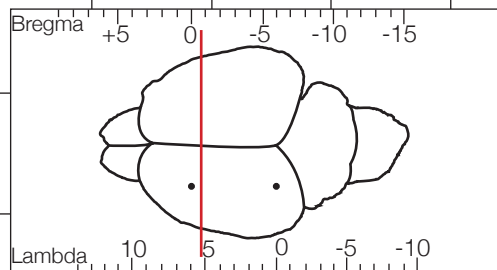




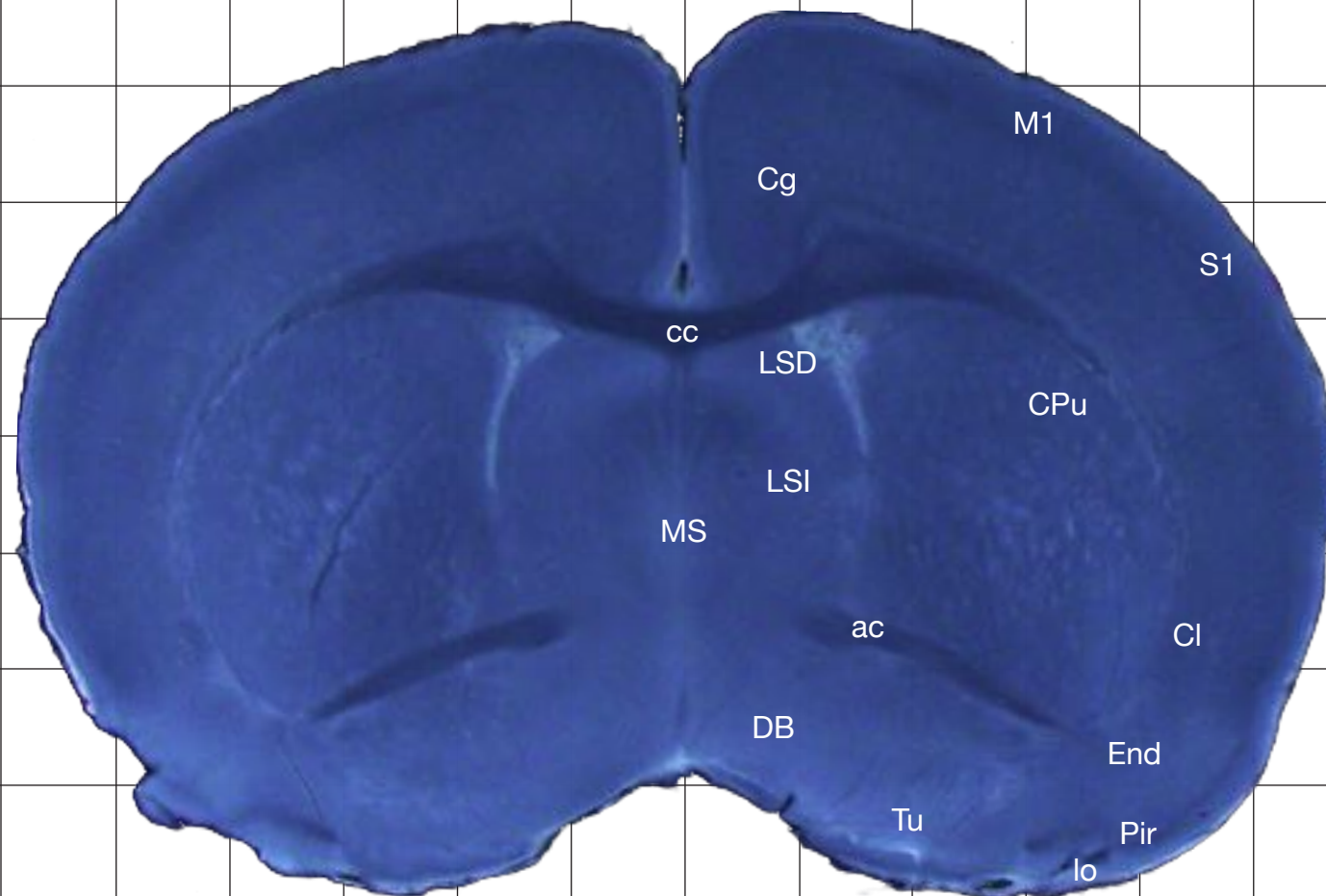
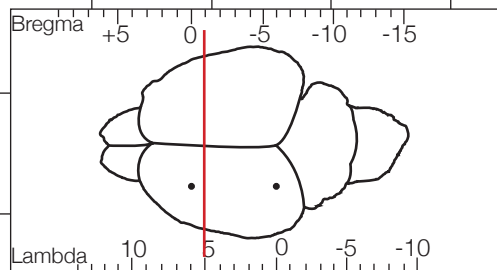
Bregma -0.40 mm
Lambda 5.60 mm



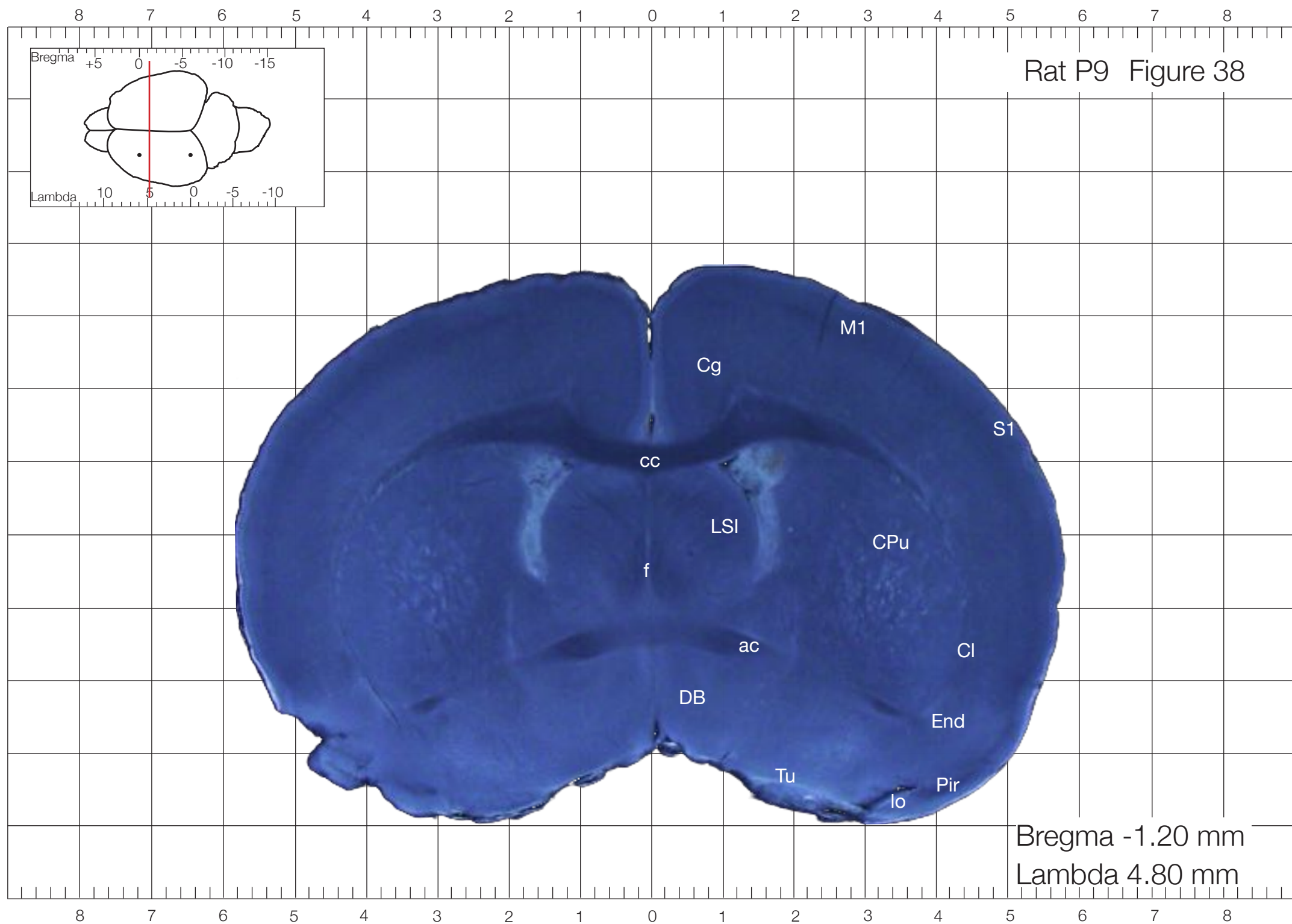
Bregma -0.60 mm
Lambda 5.40 mm

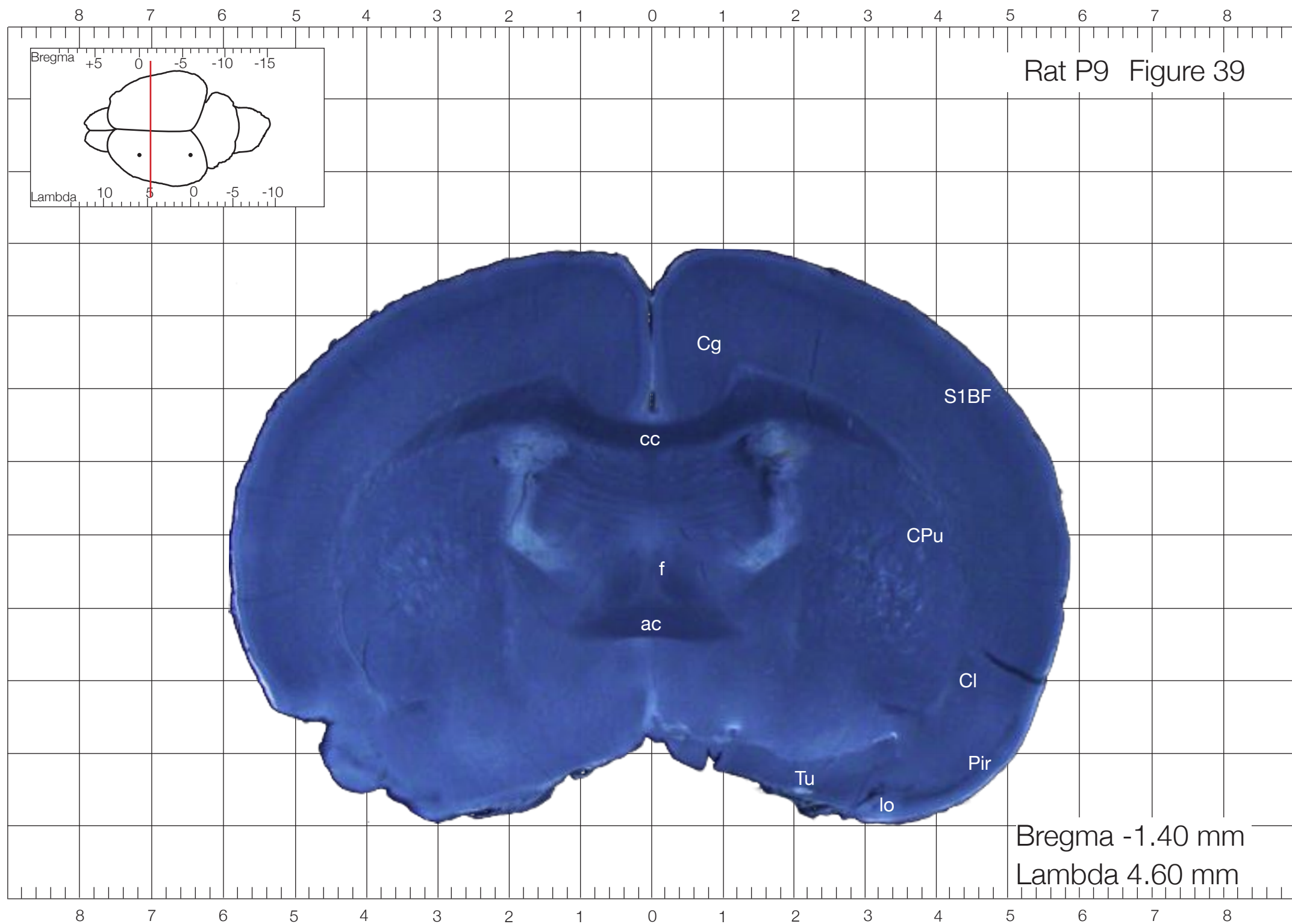


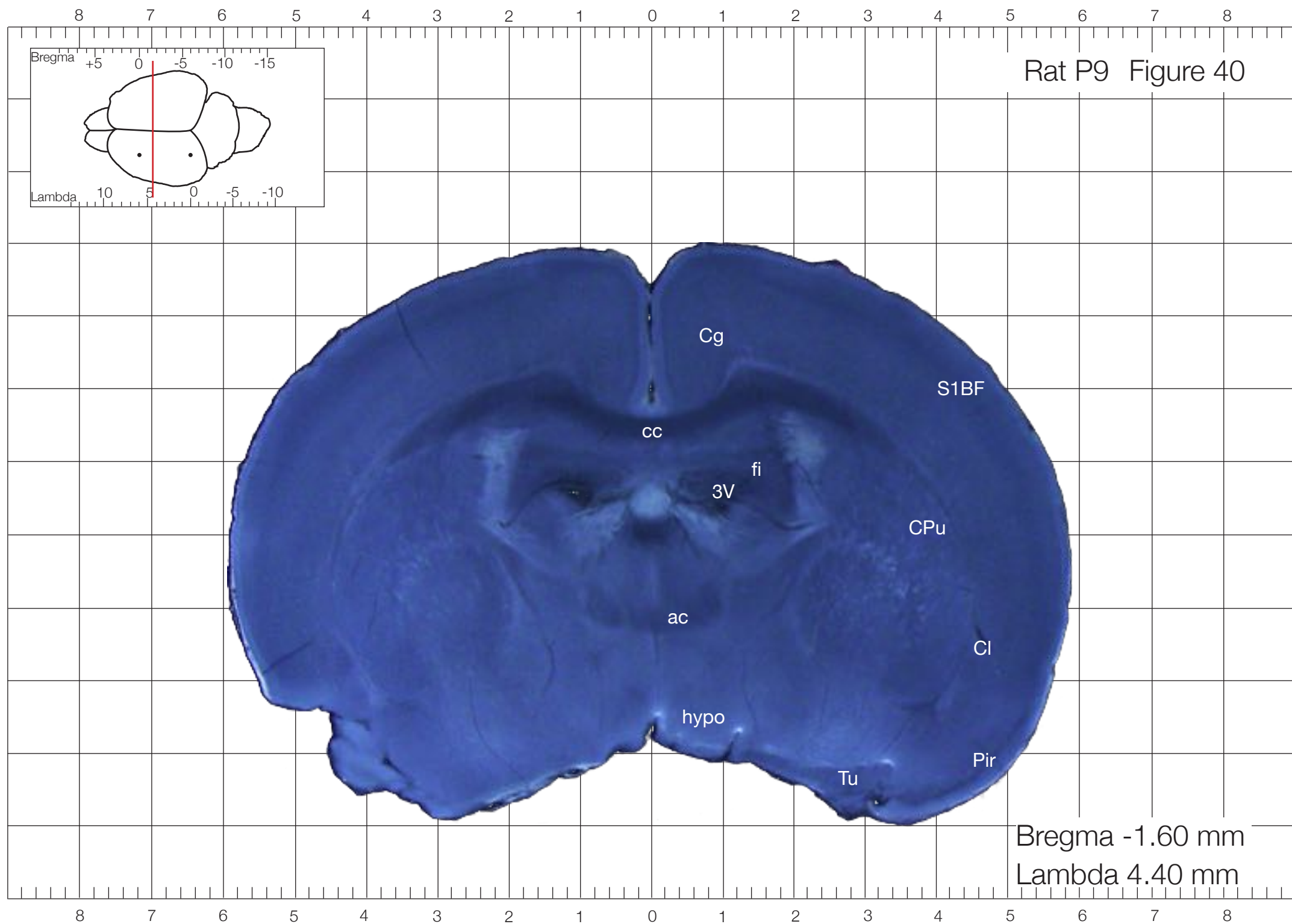
Bregma -0.80 mm
Lambda 5.20 mm

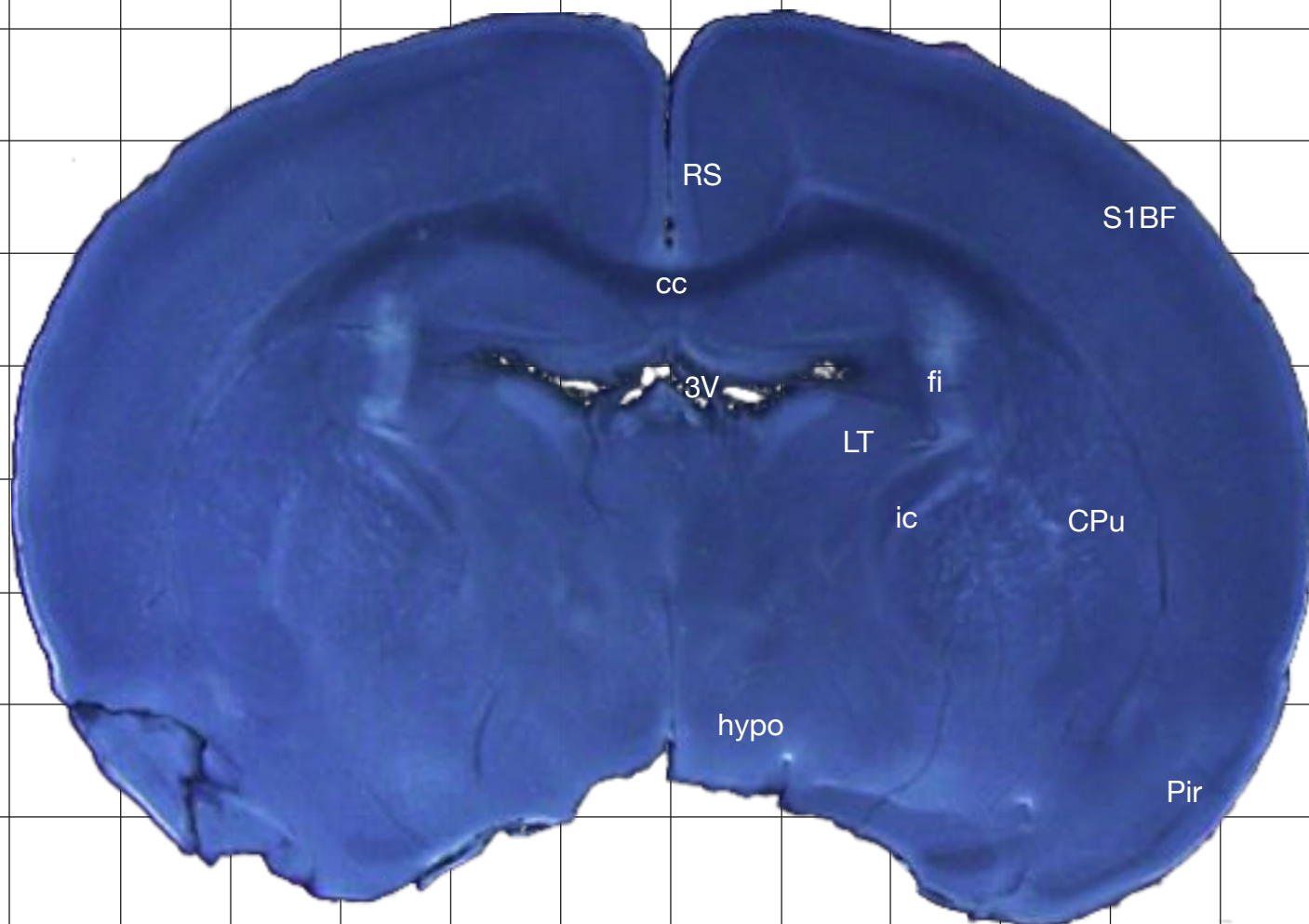
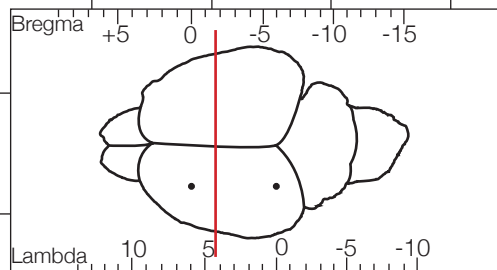


Bregma -1.00 mm
Lambda 5.00 mm

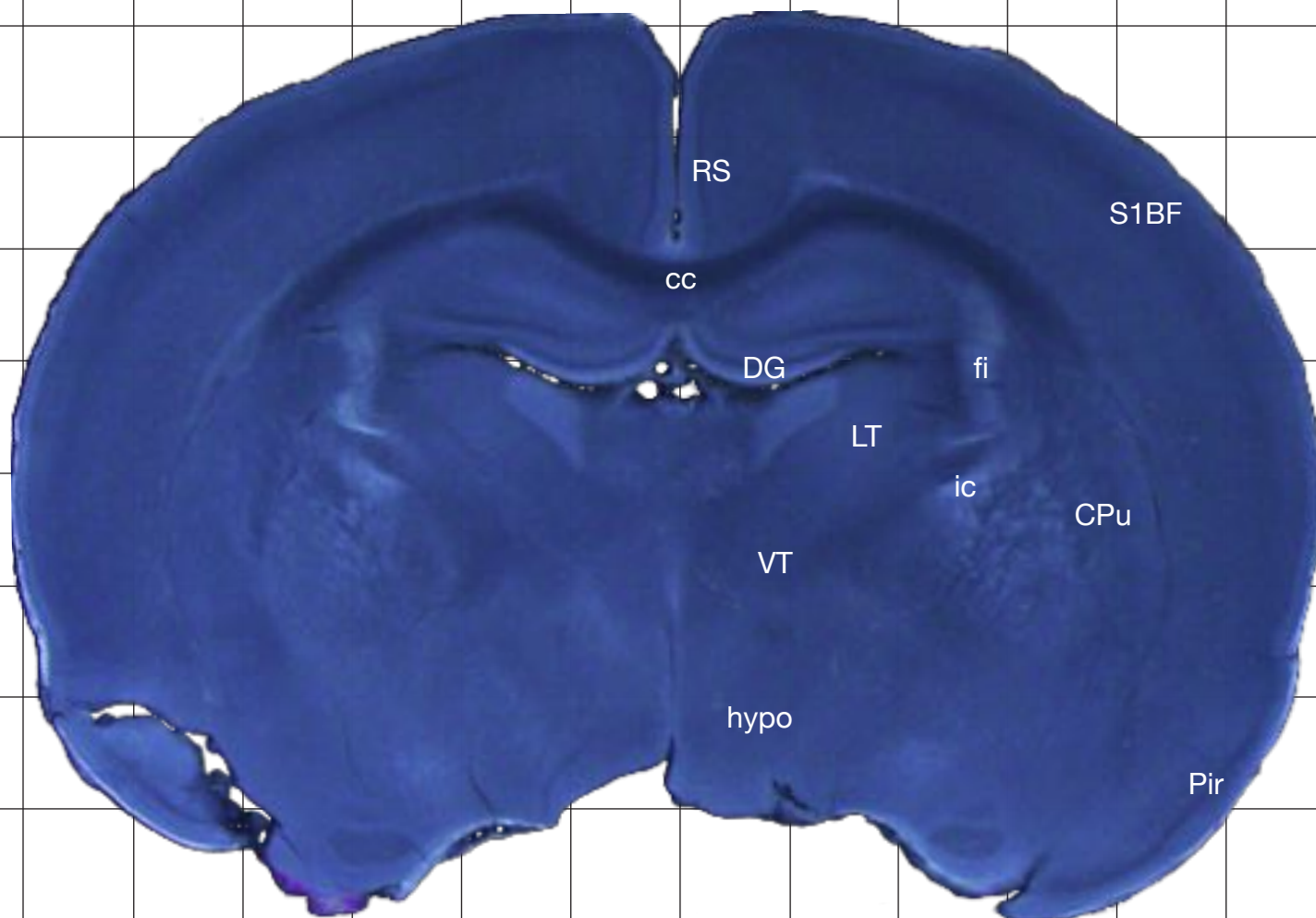
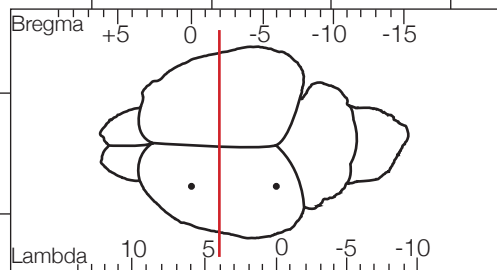




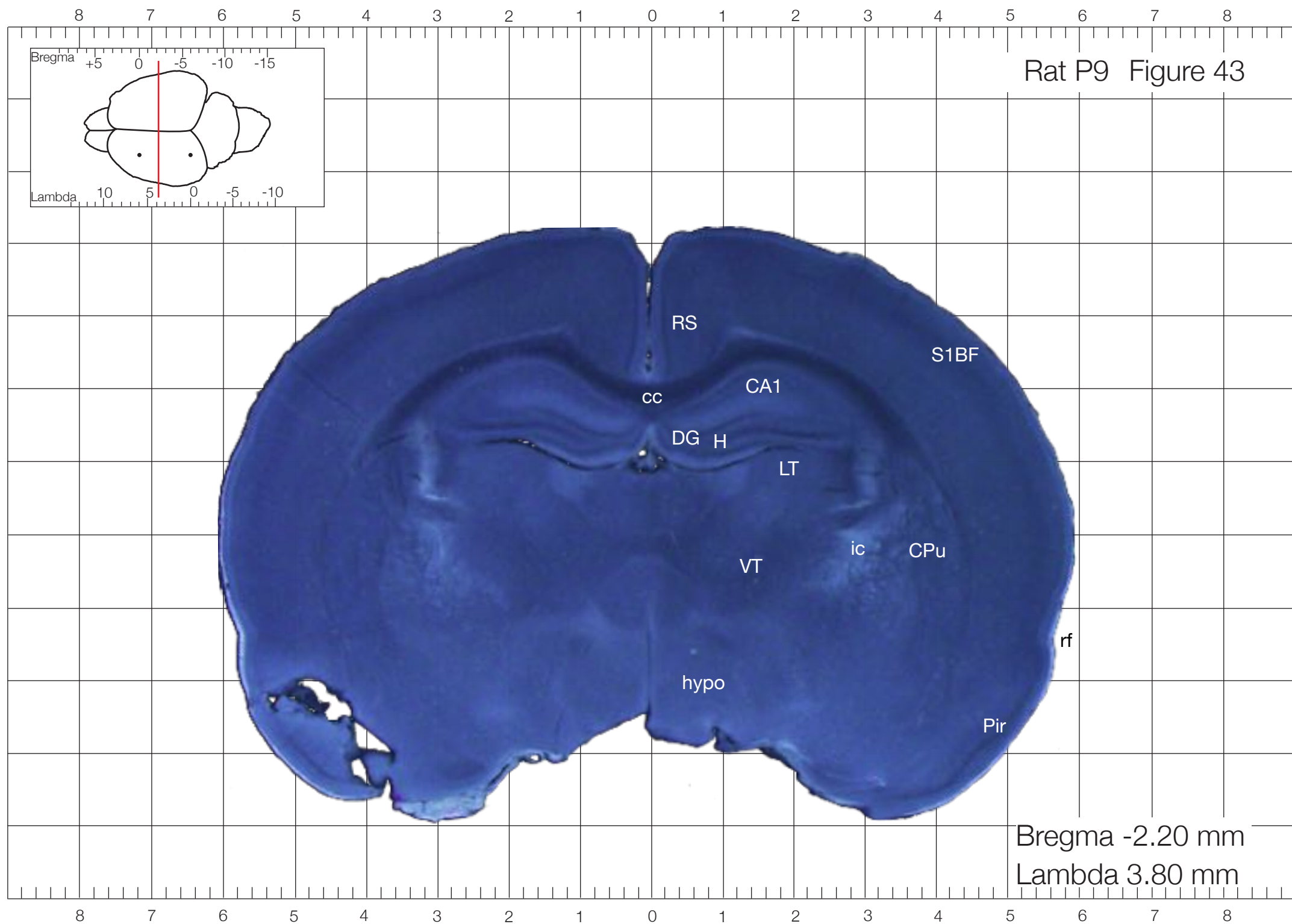


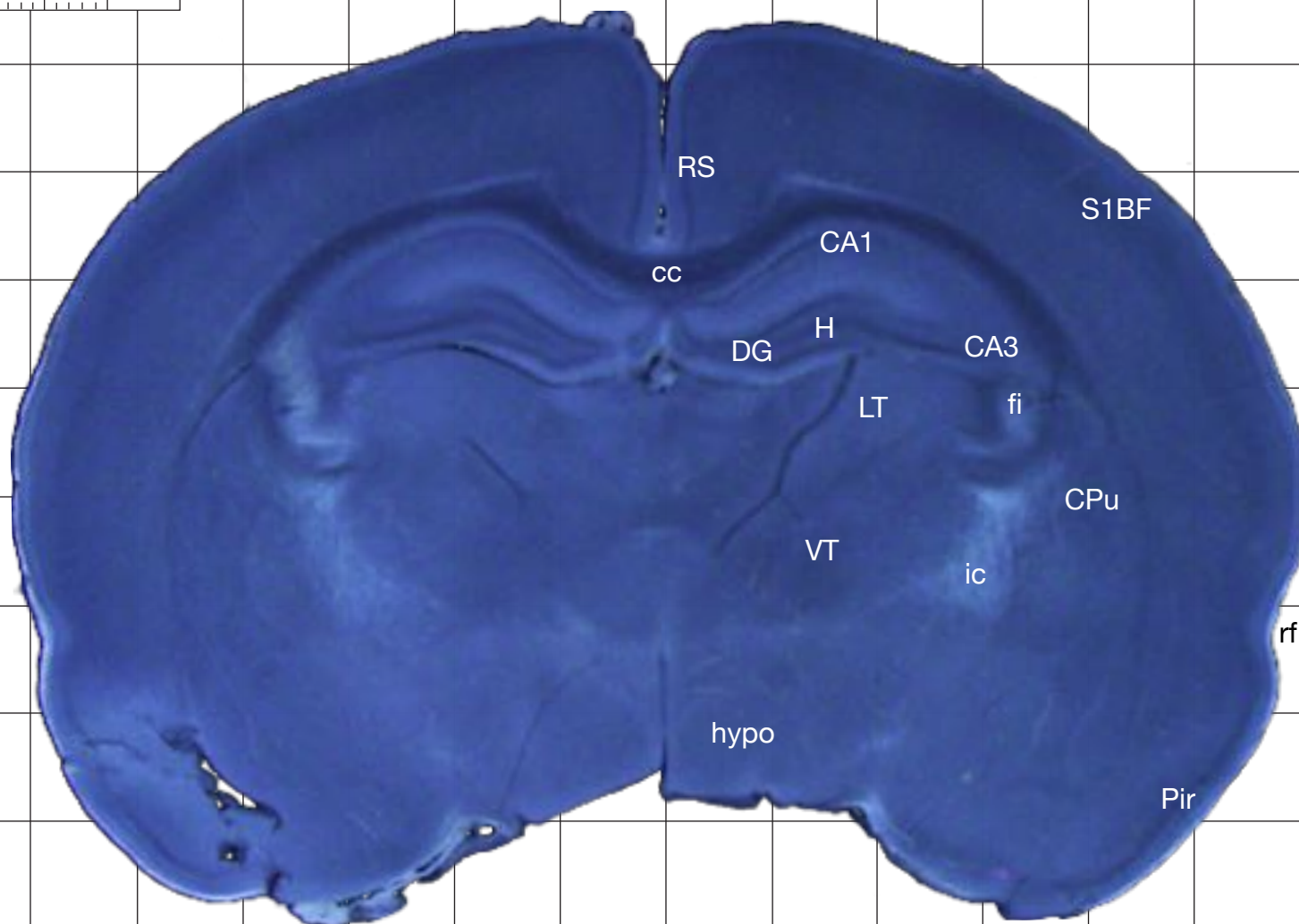
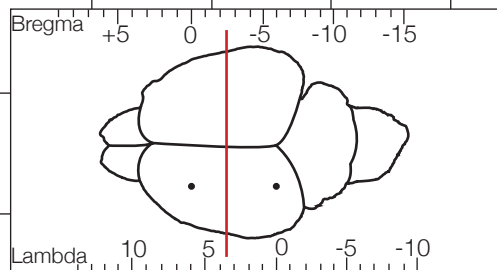


Bregma -1.80 mm
Lambda 4.20 mm

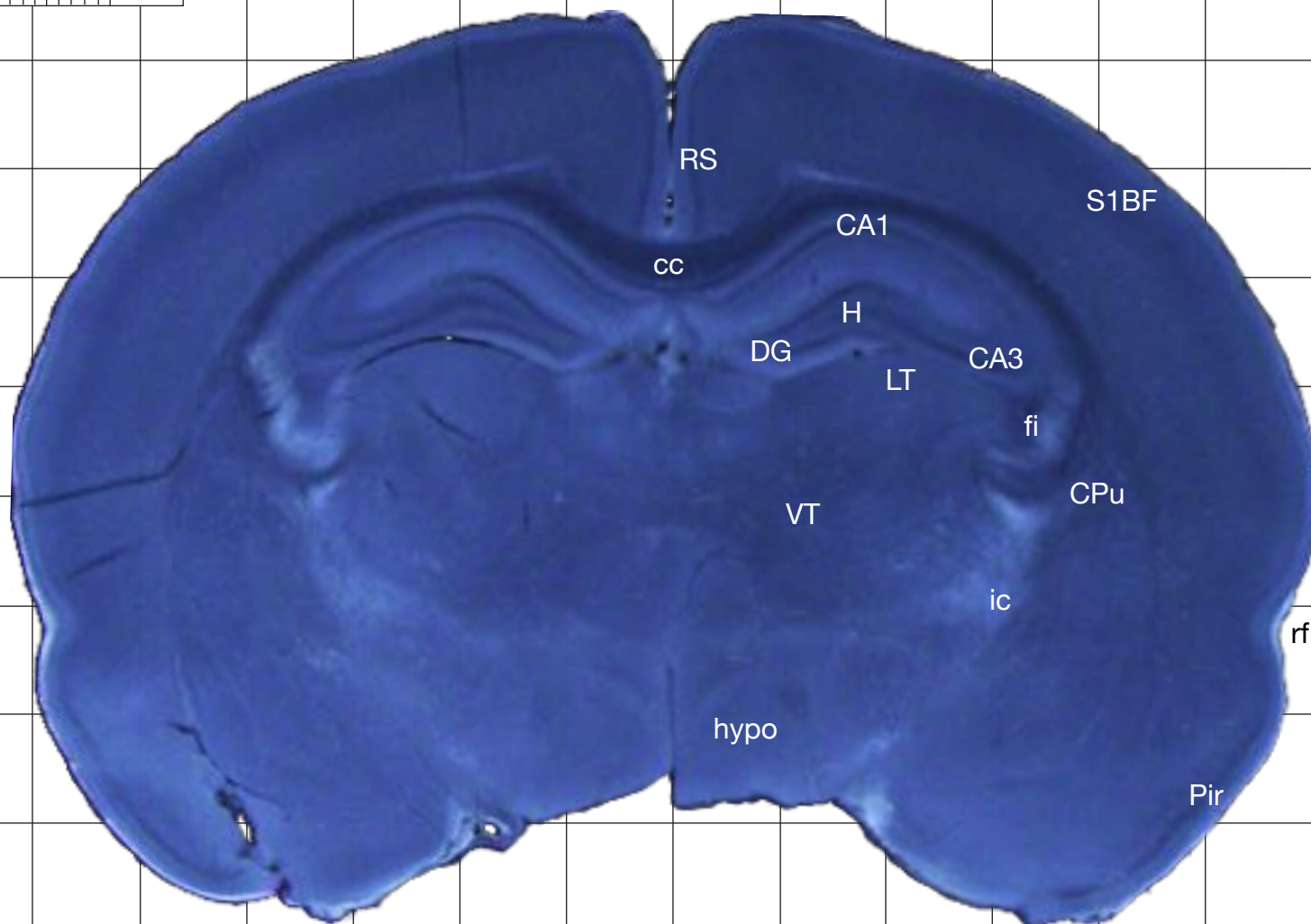
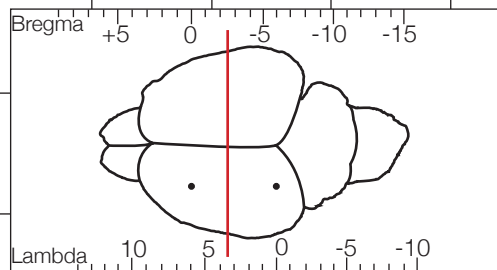


Bregma -2.00 mm
Lambda 4.00 mm

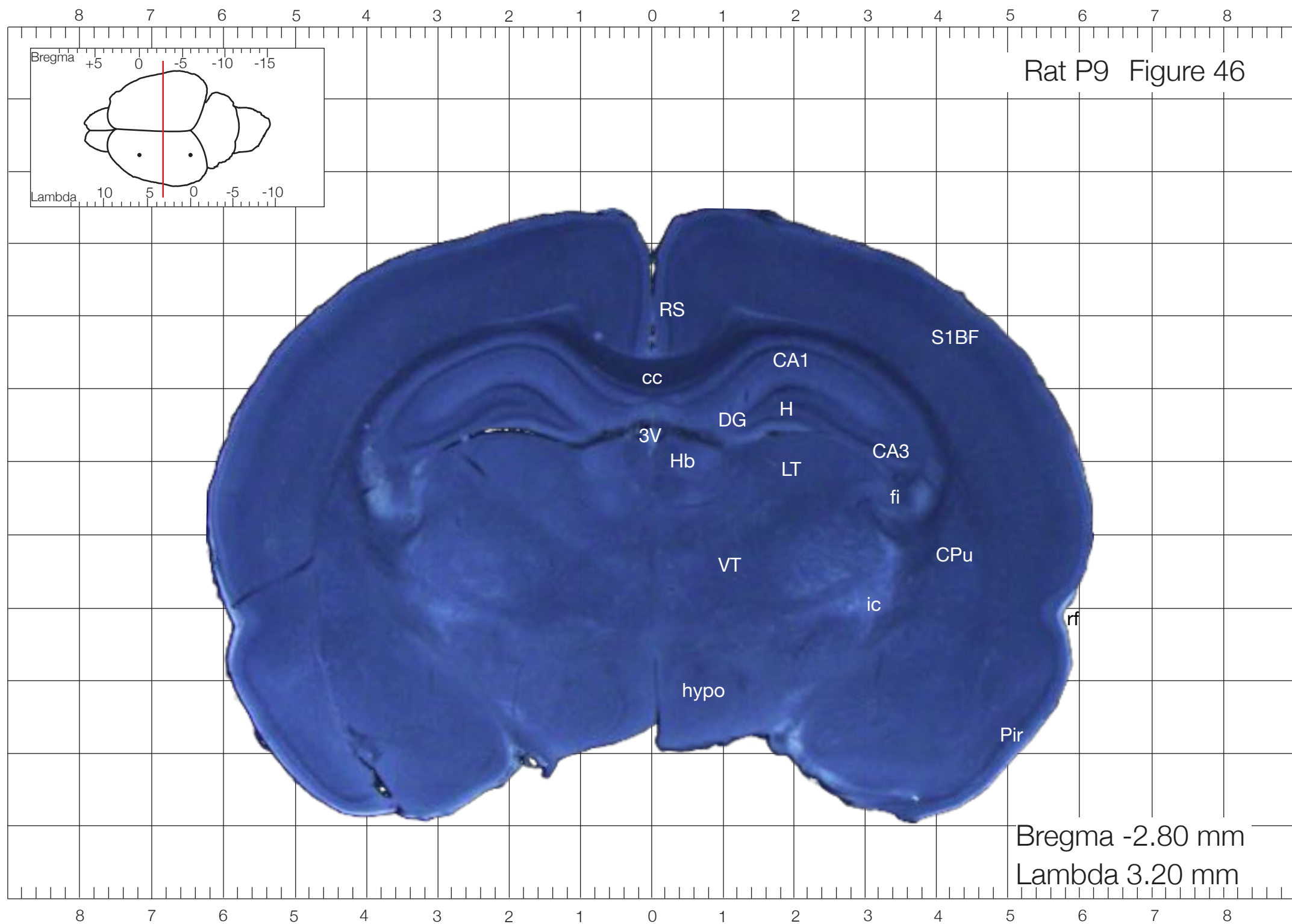


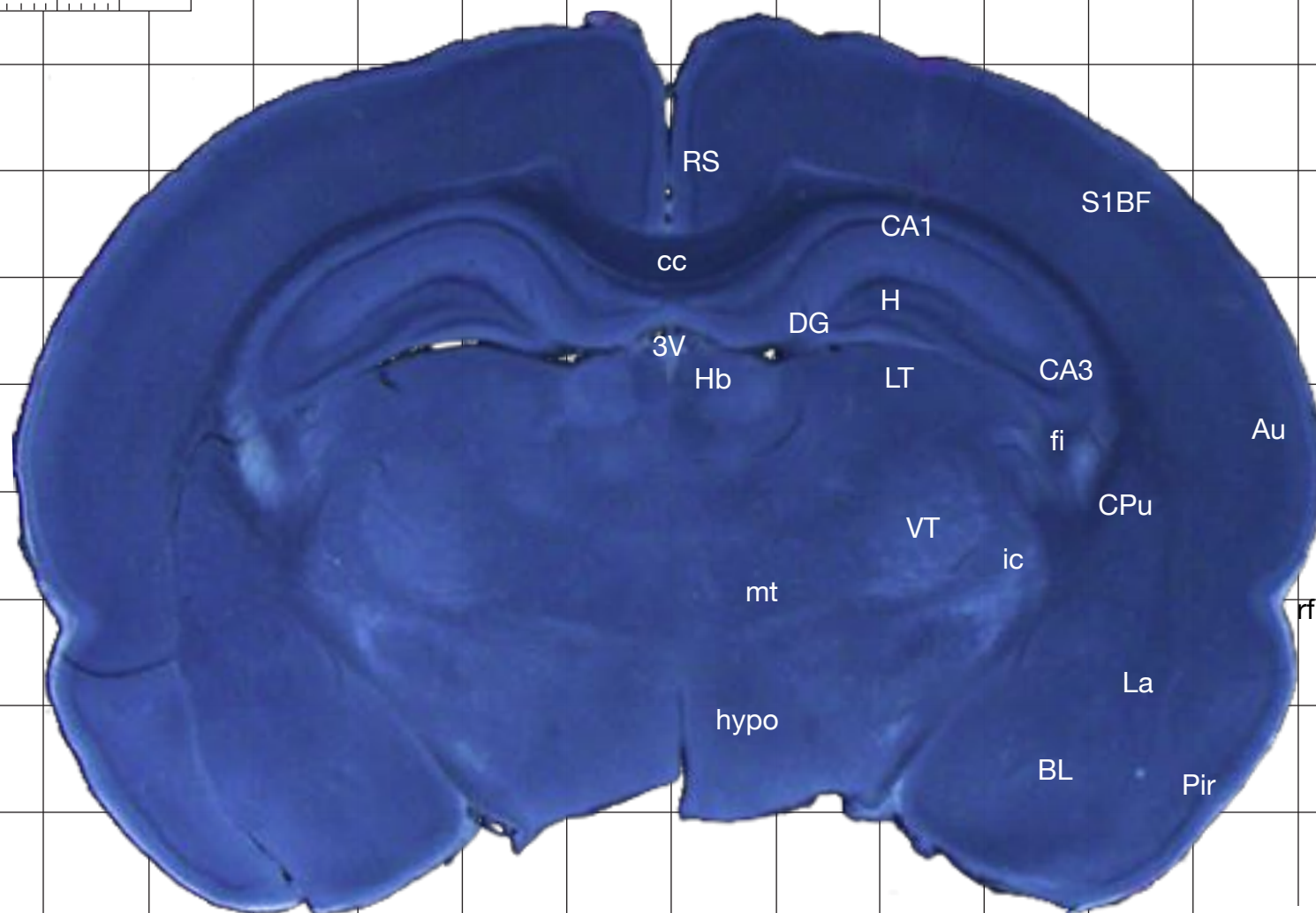
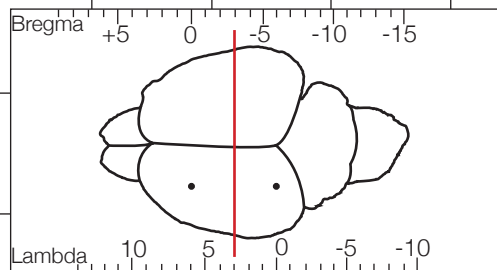


Bregma -2.40 mm
Lambda 3.60 mm

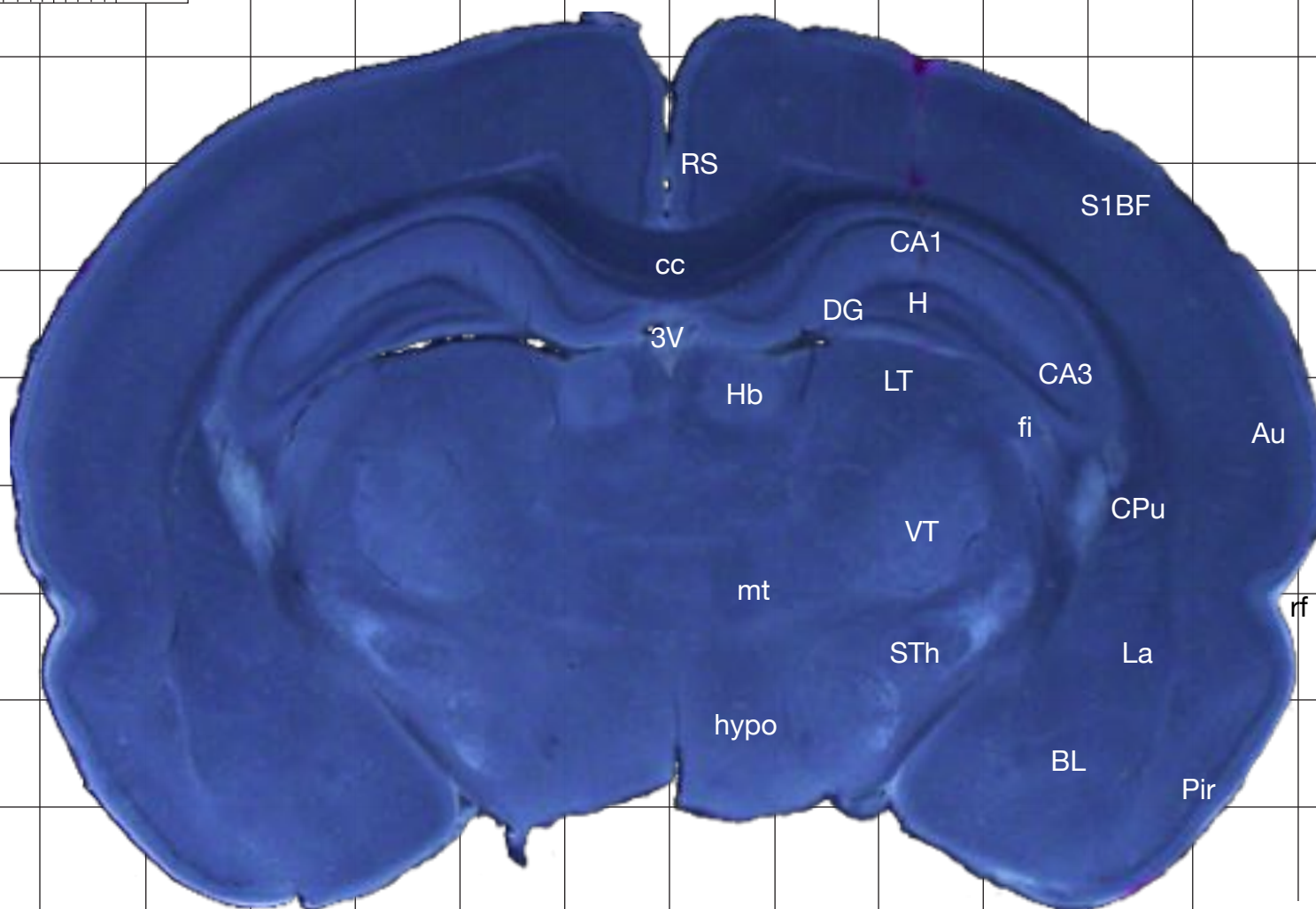
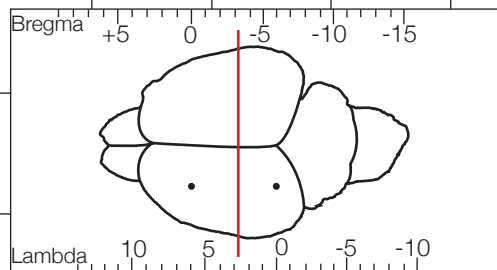


Bregma -2.60 mm
Lambda 3.40 mm

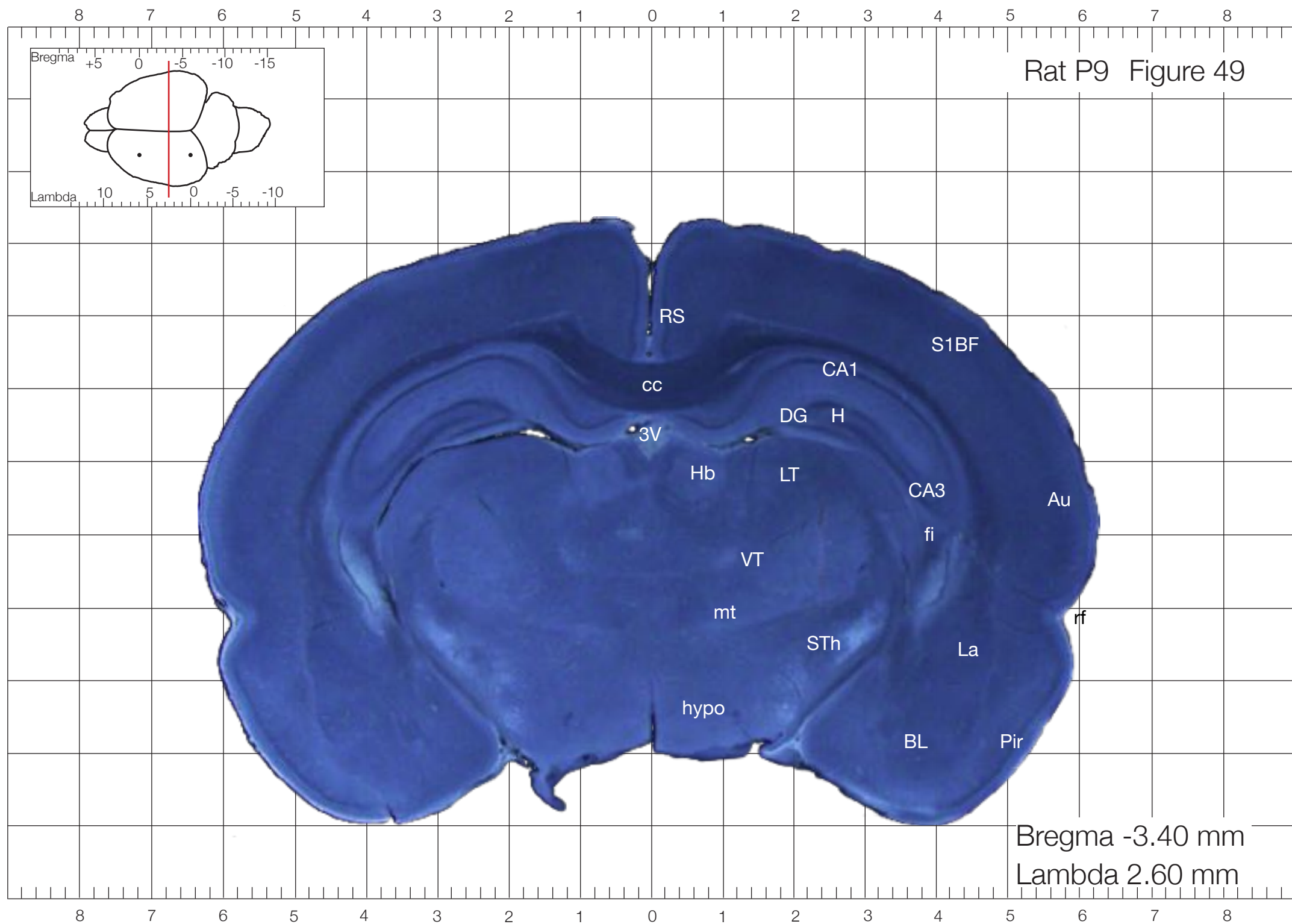


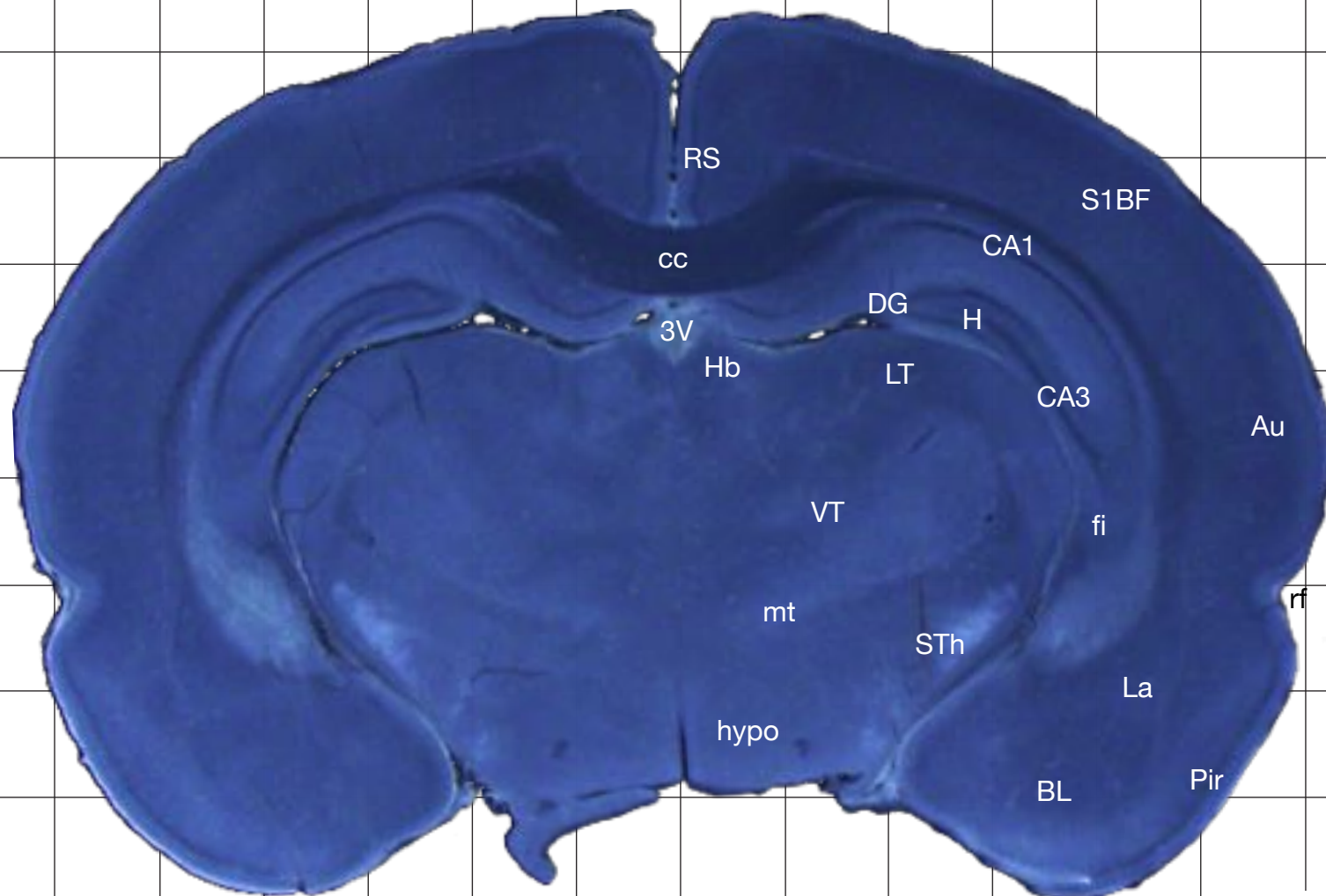
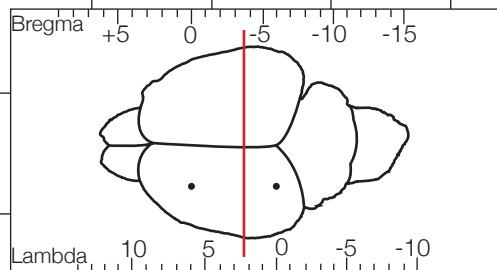


Bregma -3.00 mm
Lambda 3.00 mm

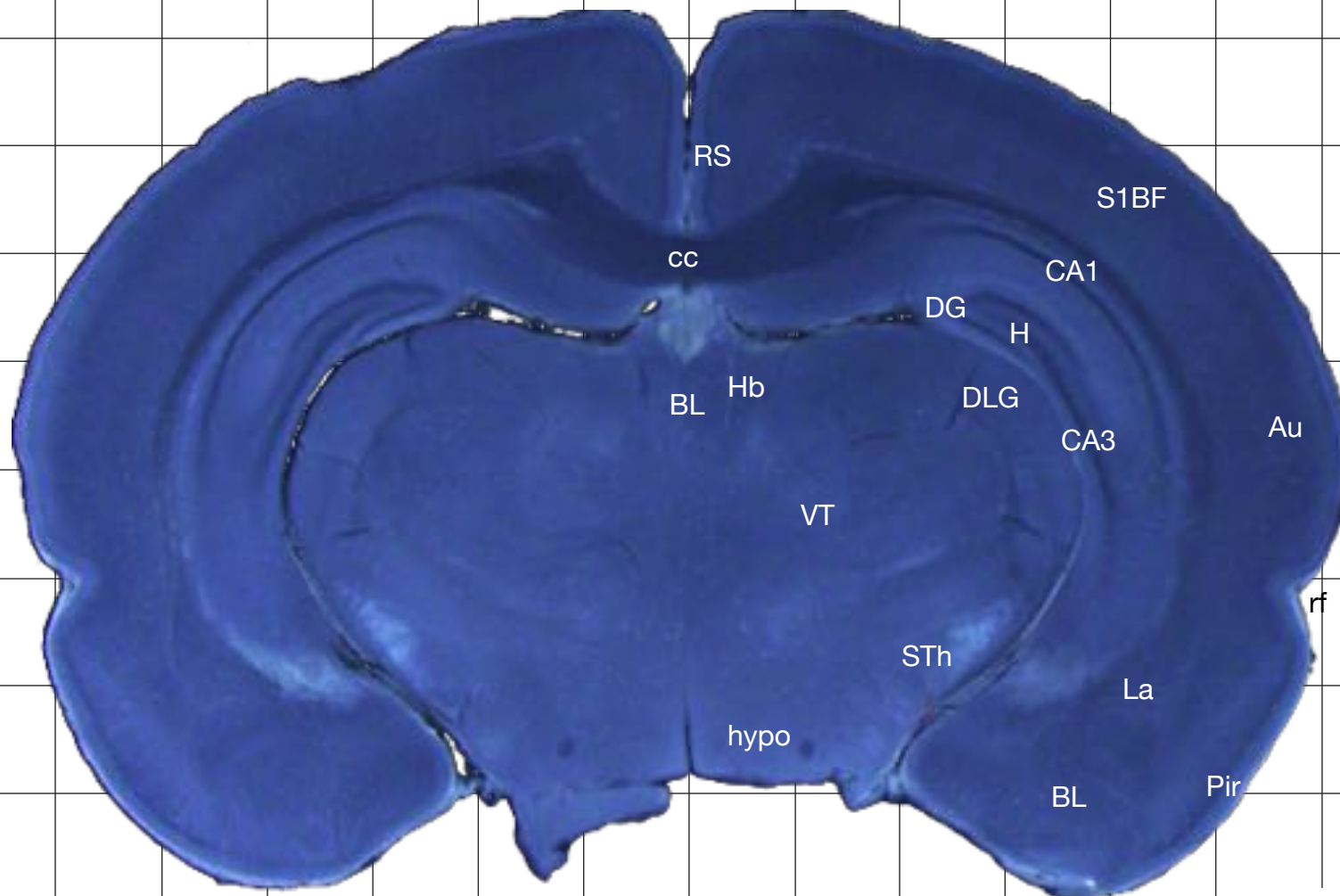
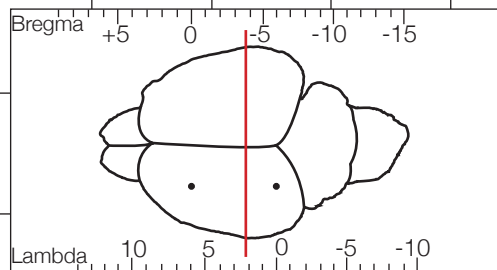


Bregma -3.20 mm
Lambda 2.80 mm

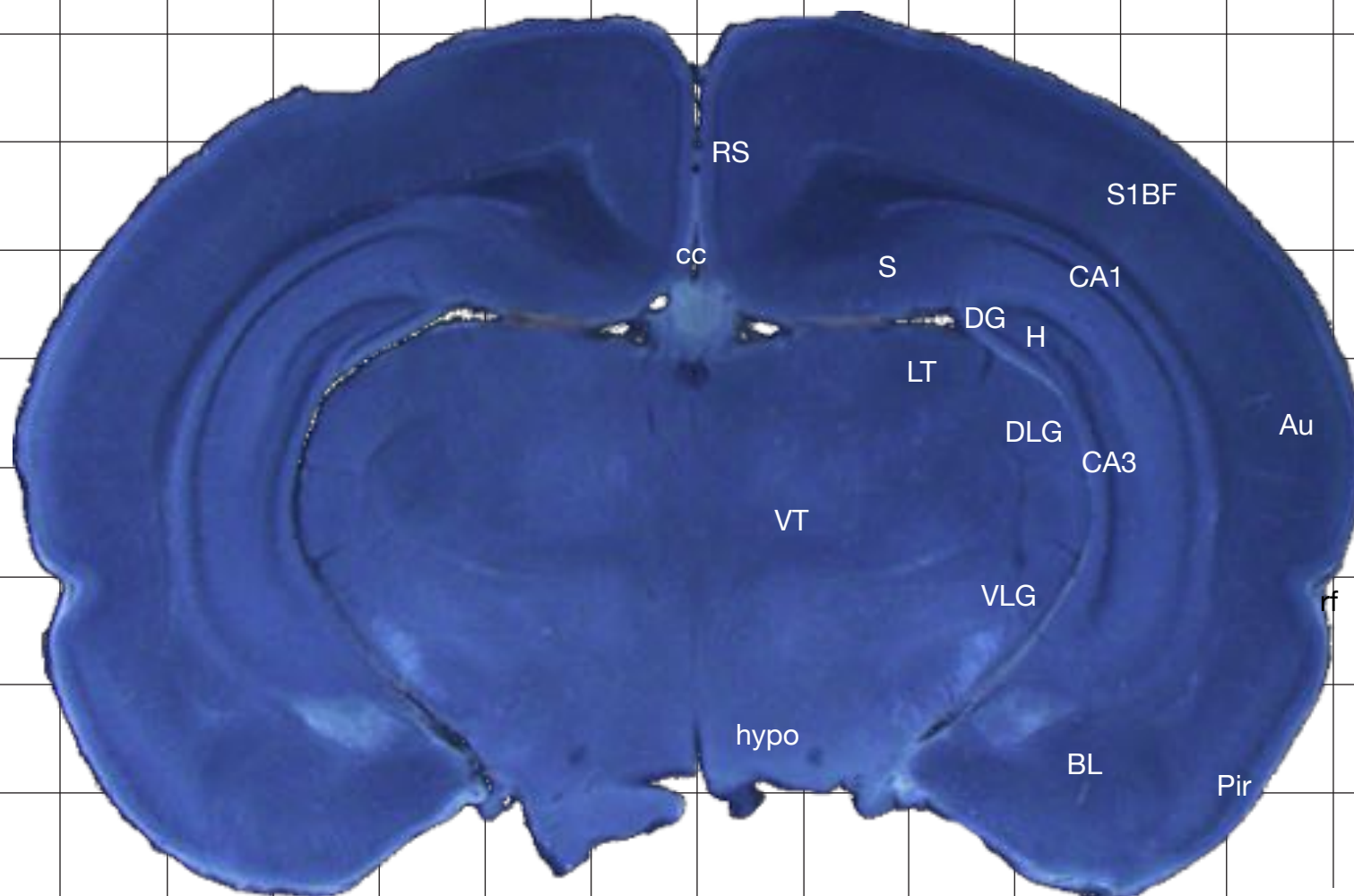
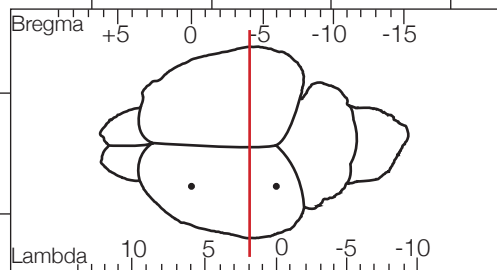




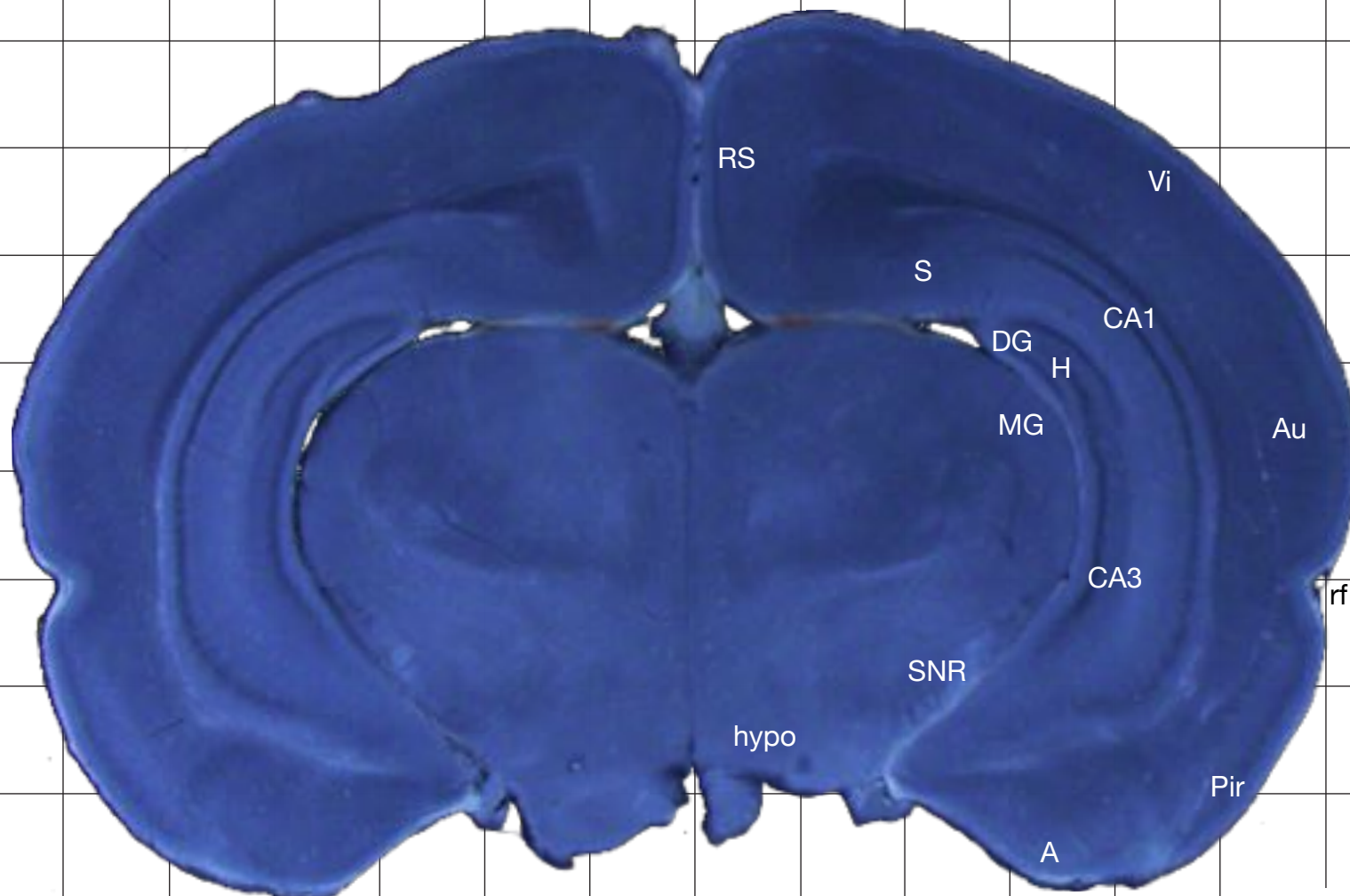
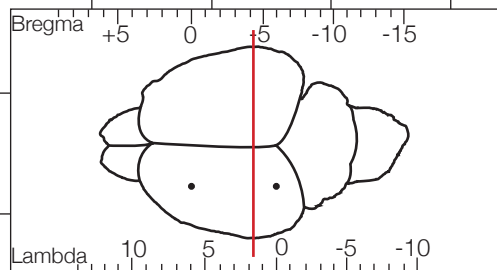
Bregma -3.60 mm
Lambda 2.40 mm



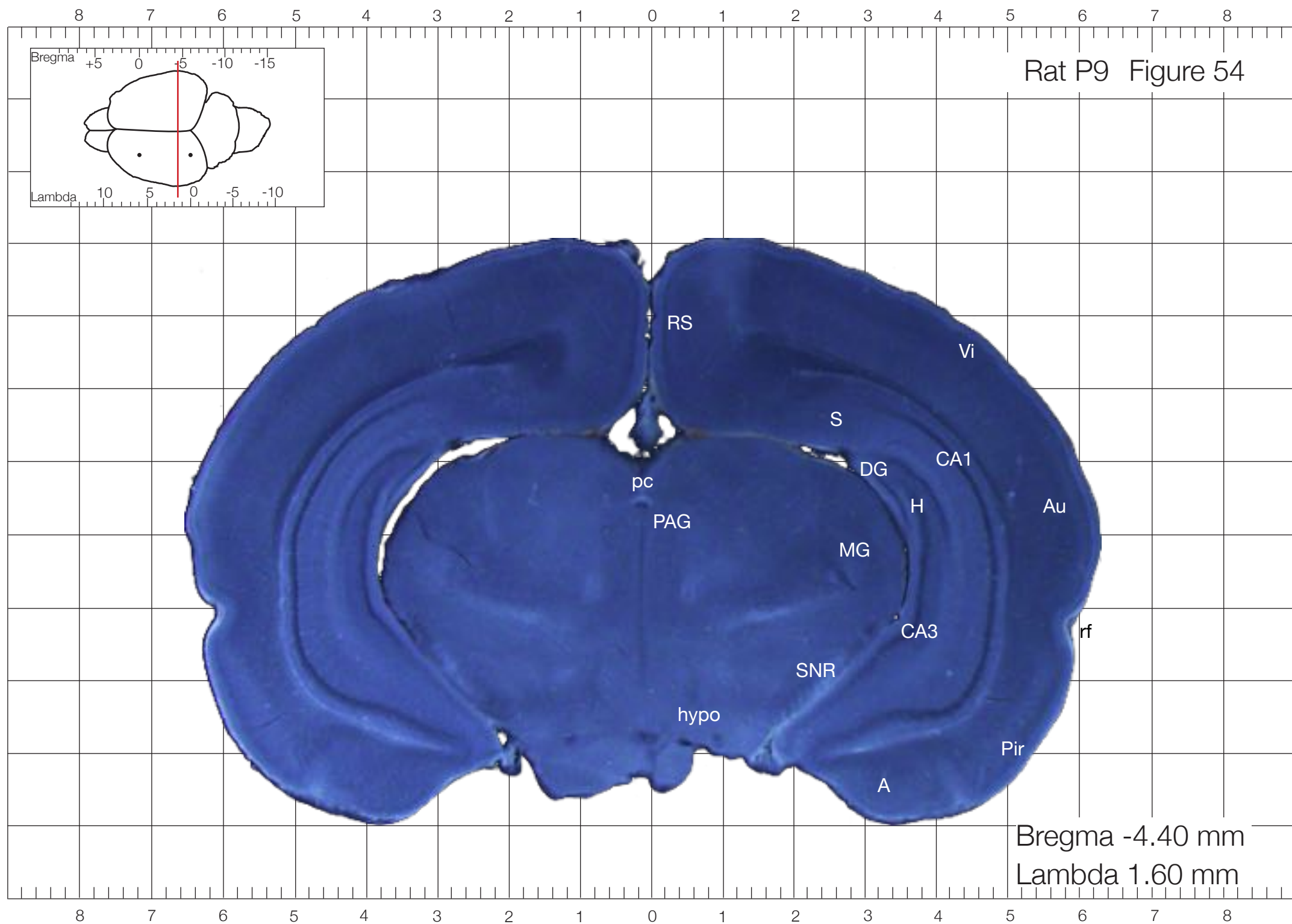
Bregma -3.80 mm
Lambda 2.20 mm

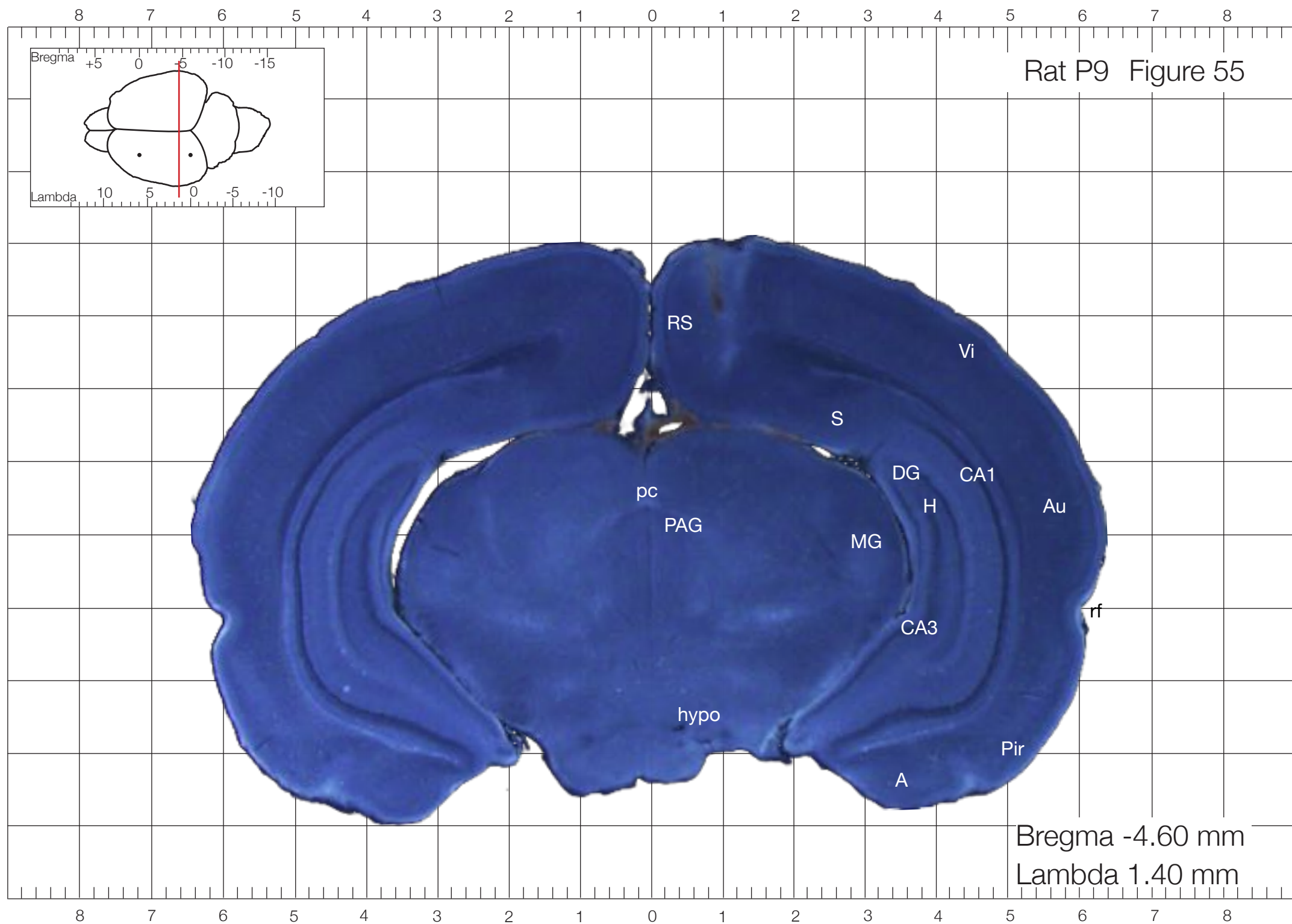


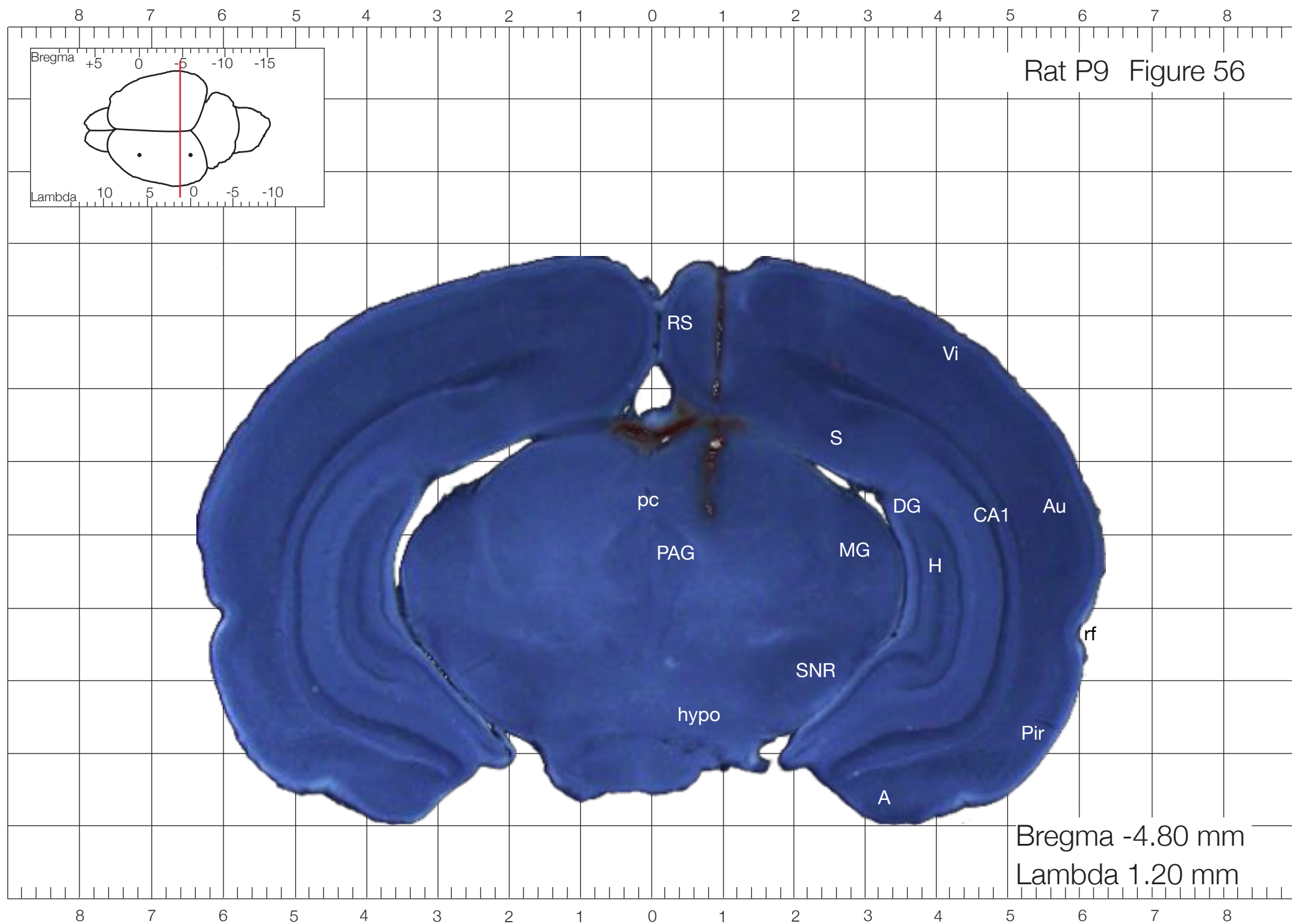
Bregma -4.00 mm
Lambda 2.00 mm

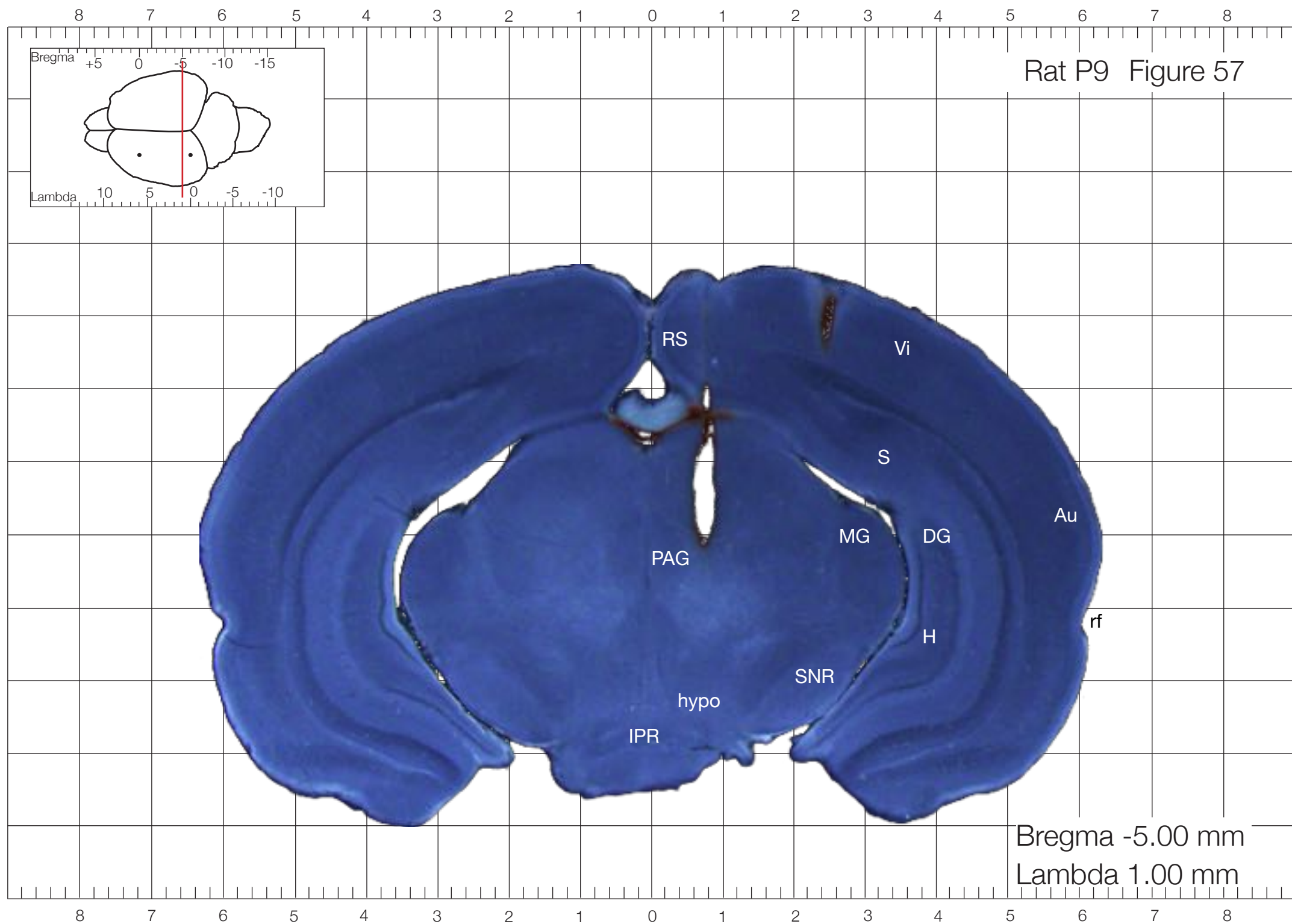


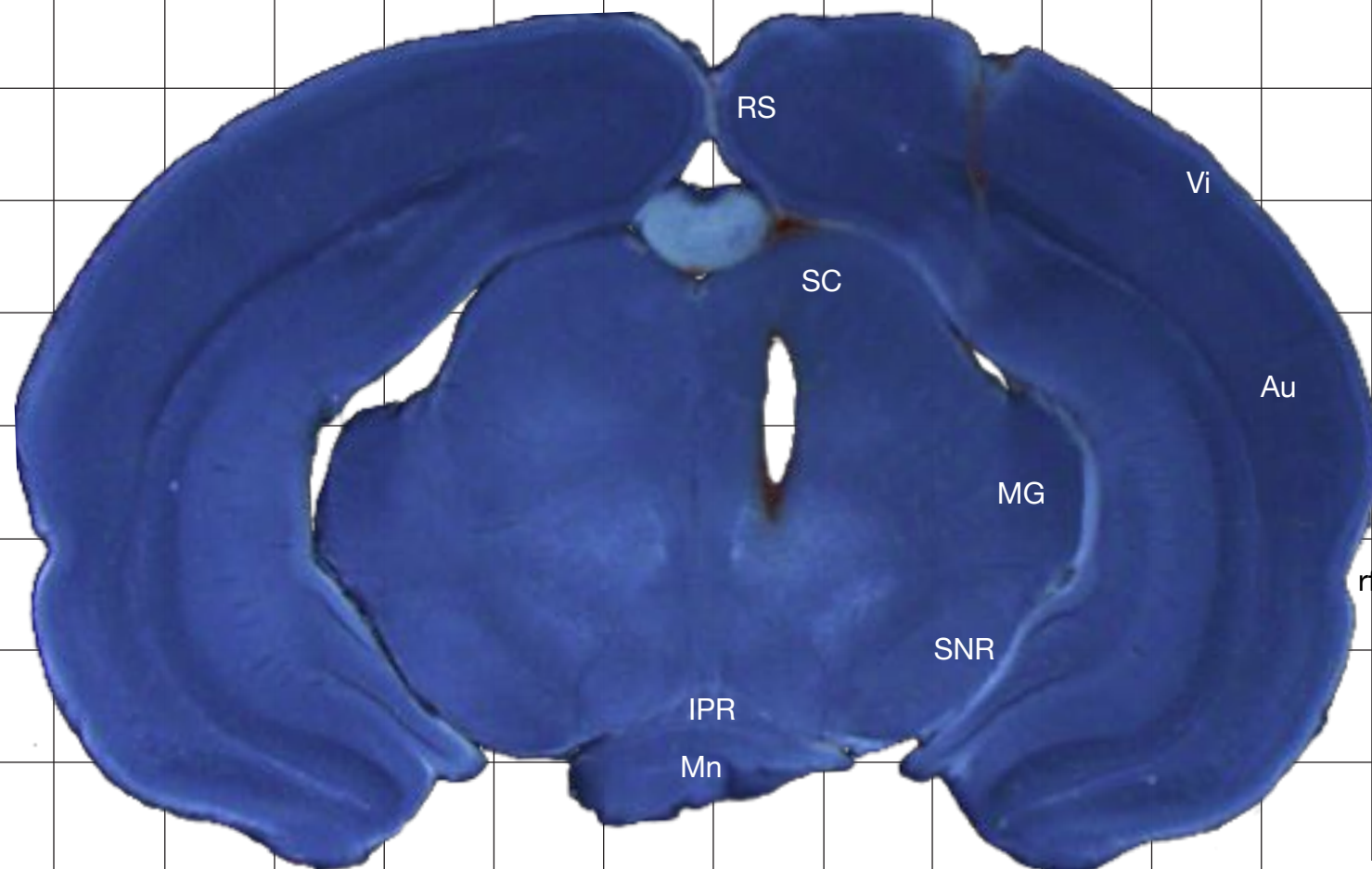
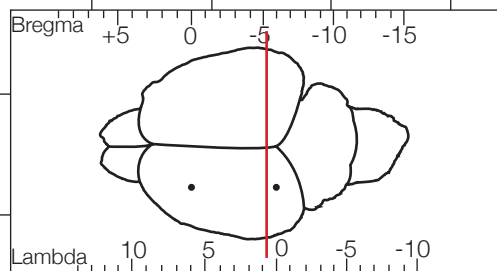
Bregma -4.20 mm
Lambda 1.80 mm



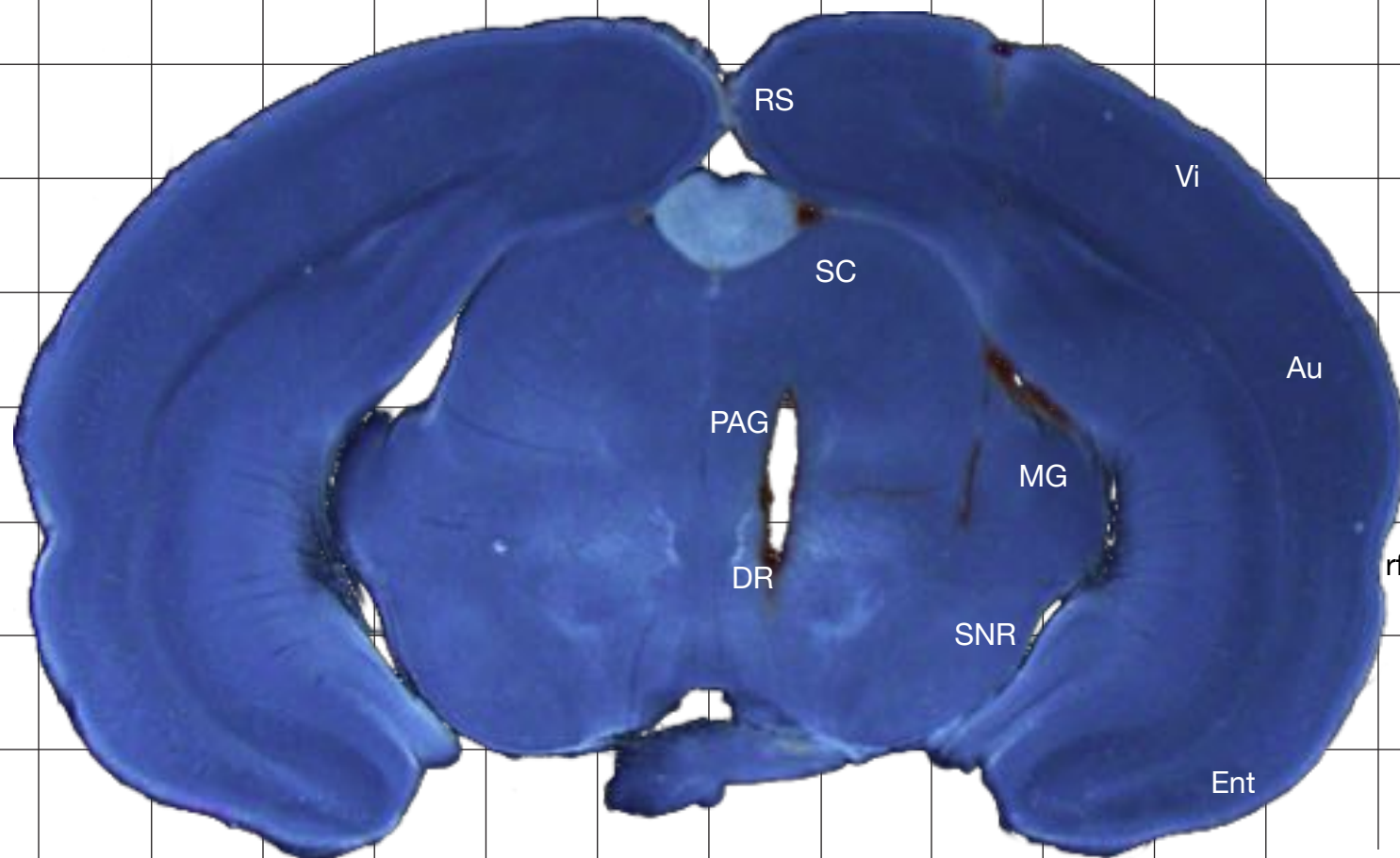
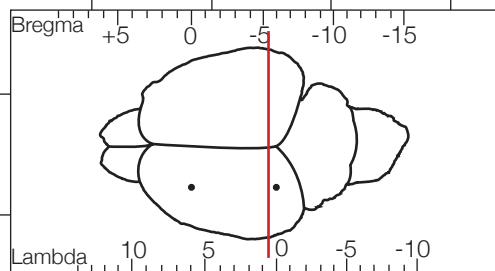




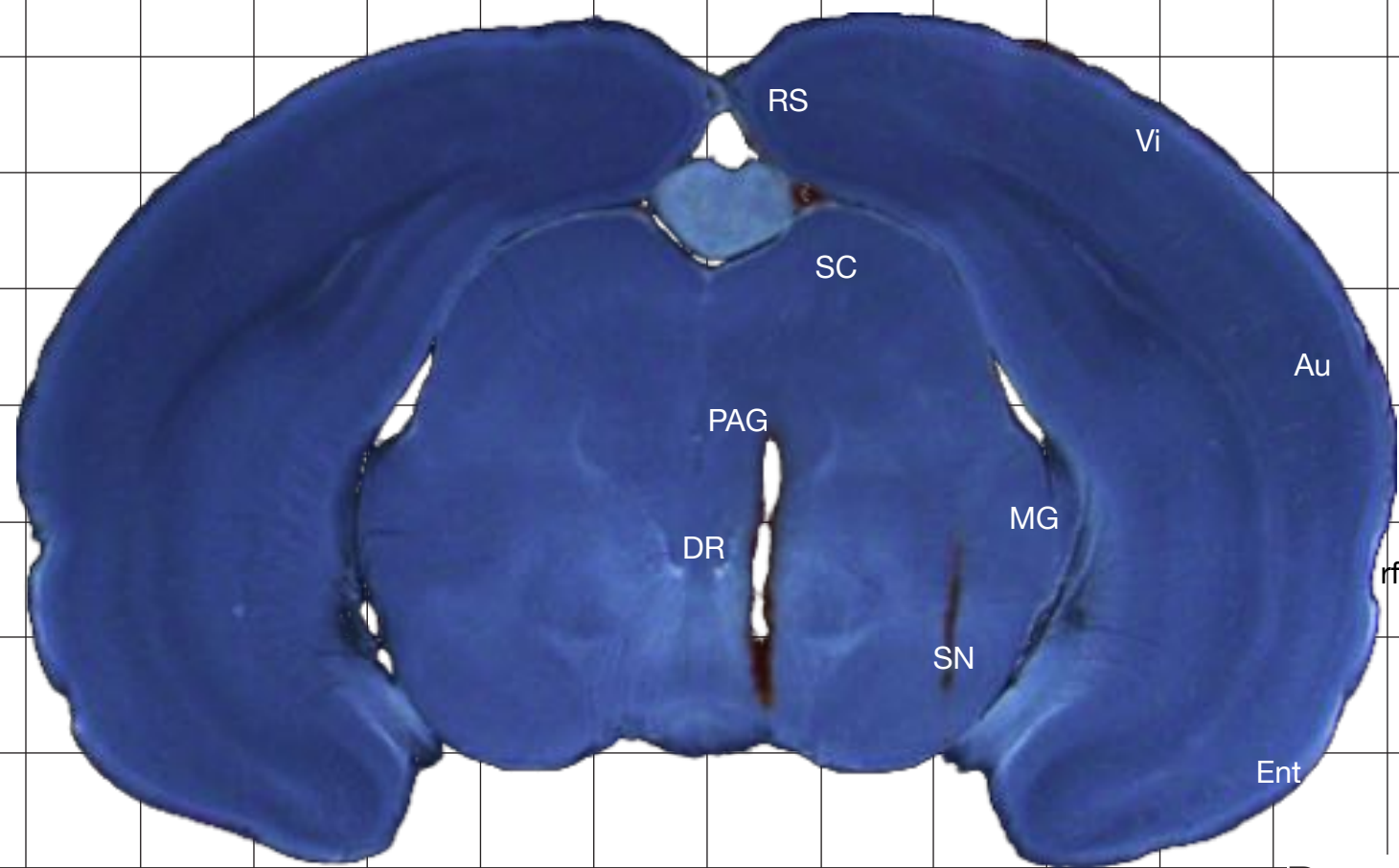
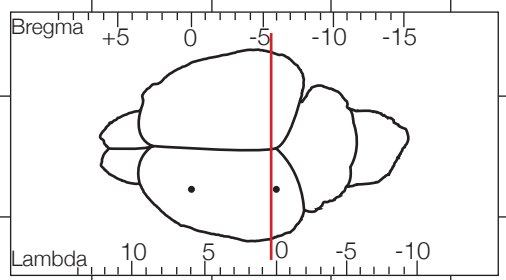




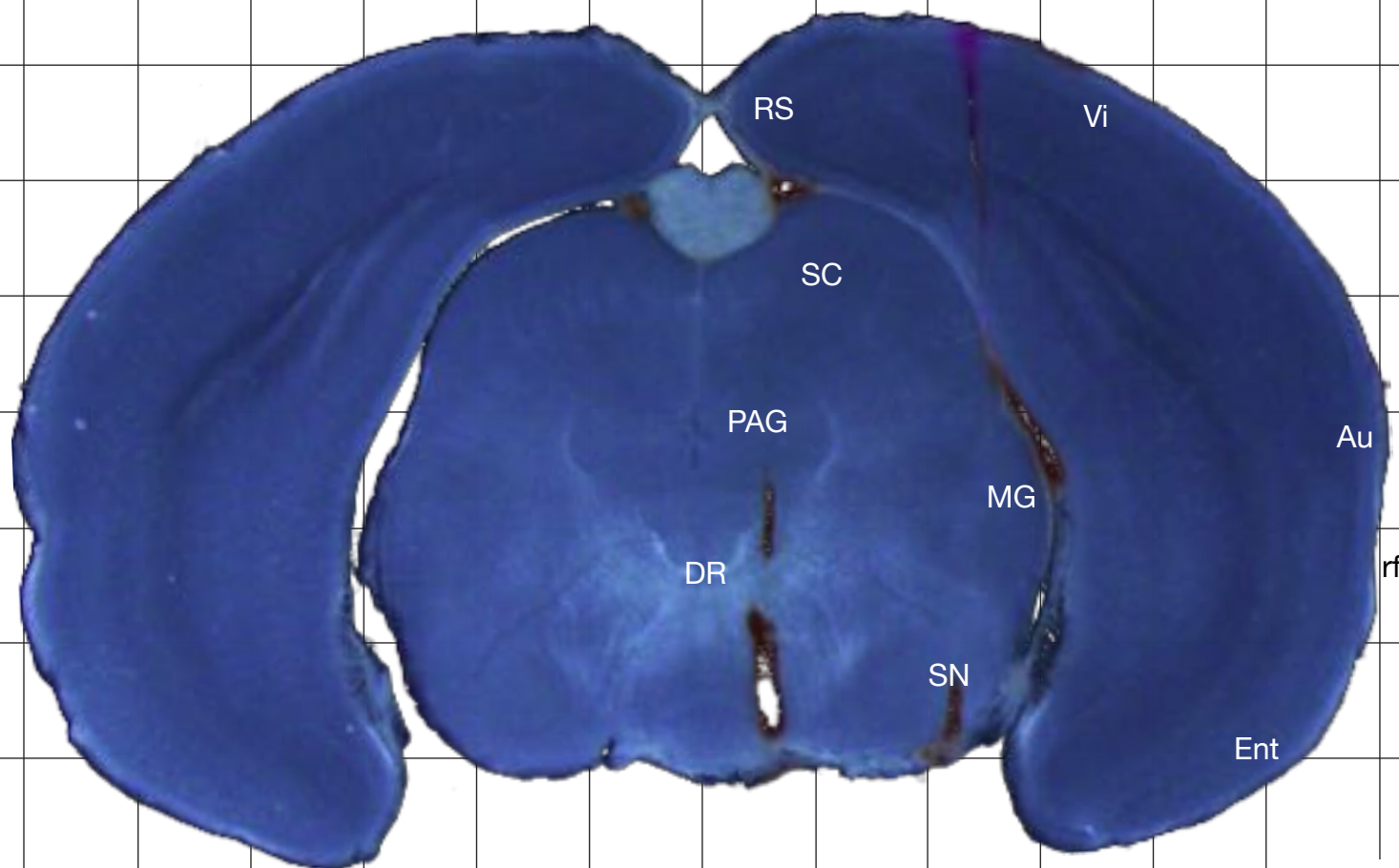
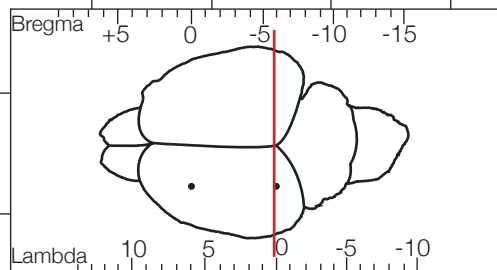
Bregma -5.20 mm
Lambda 0.80 mm



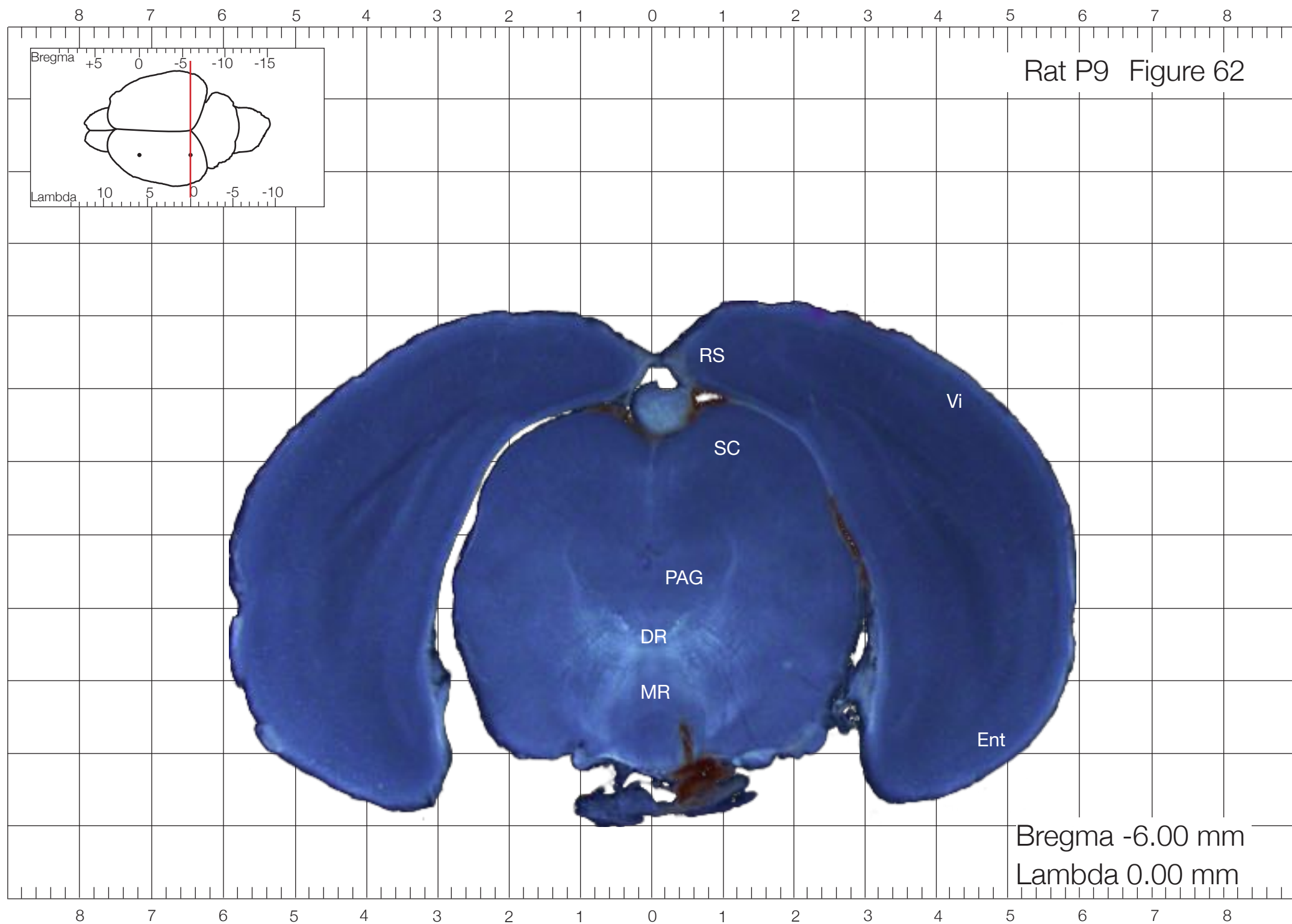
Bregma -5.40 mm
Lambda 0.60 mm

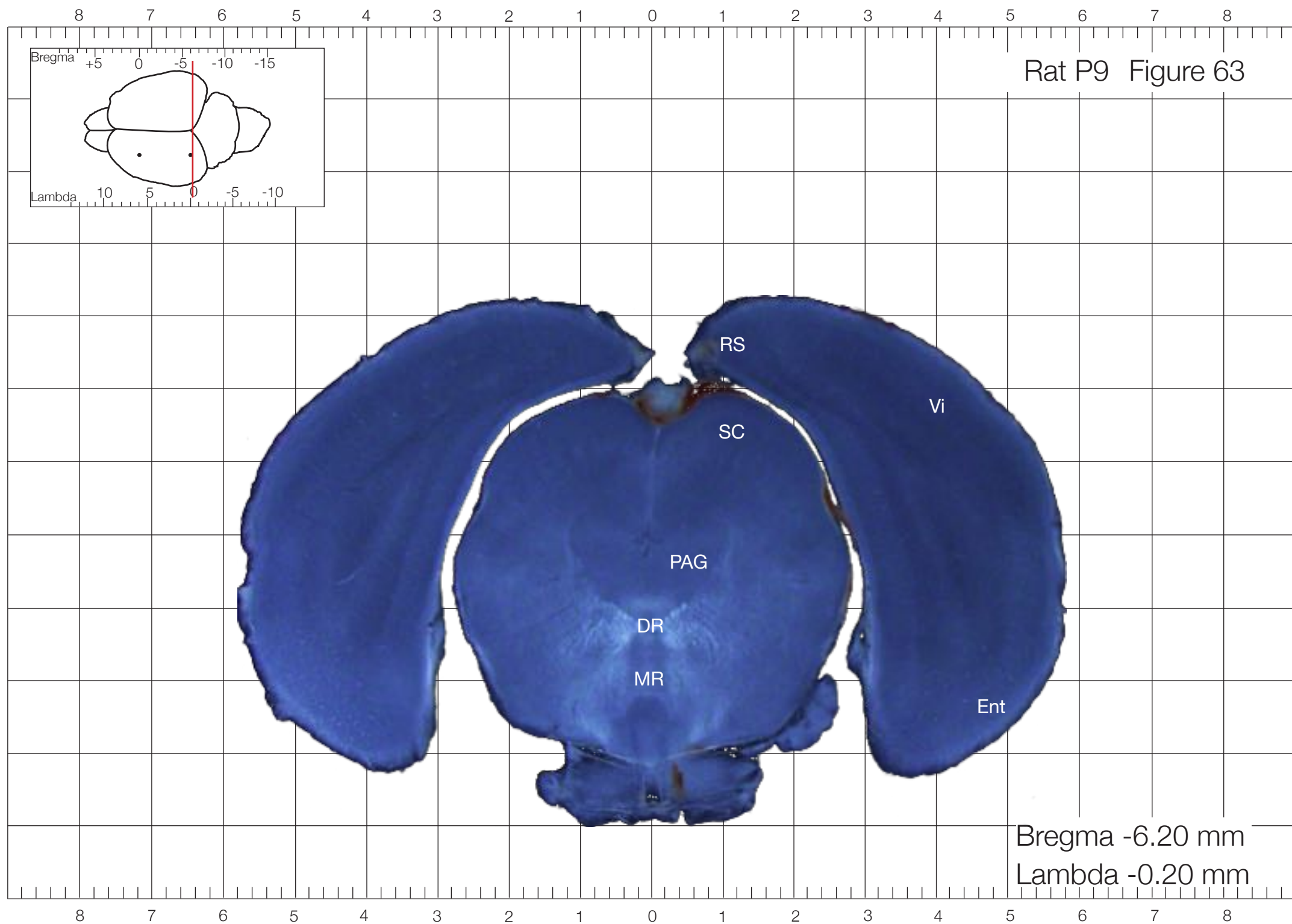


Bregma -5.60 mm
Lambda 0.40 mm

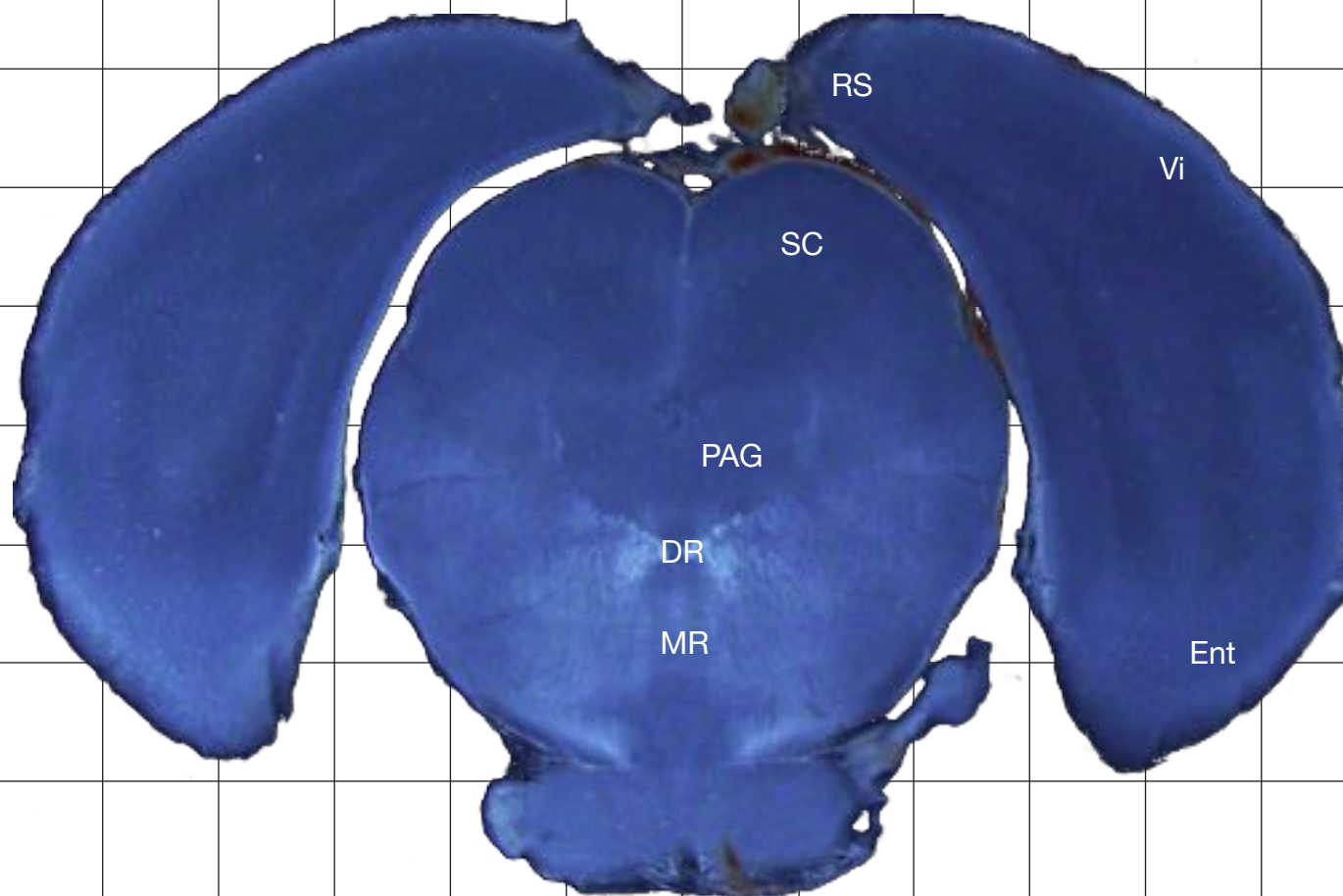
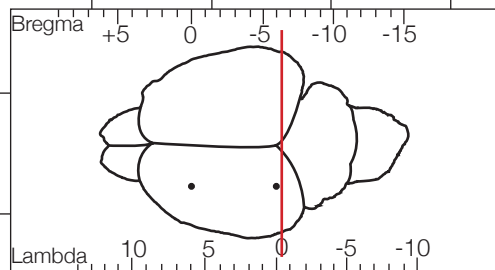


Bregma -5.80 mm
Lambda 0.20 mm

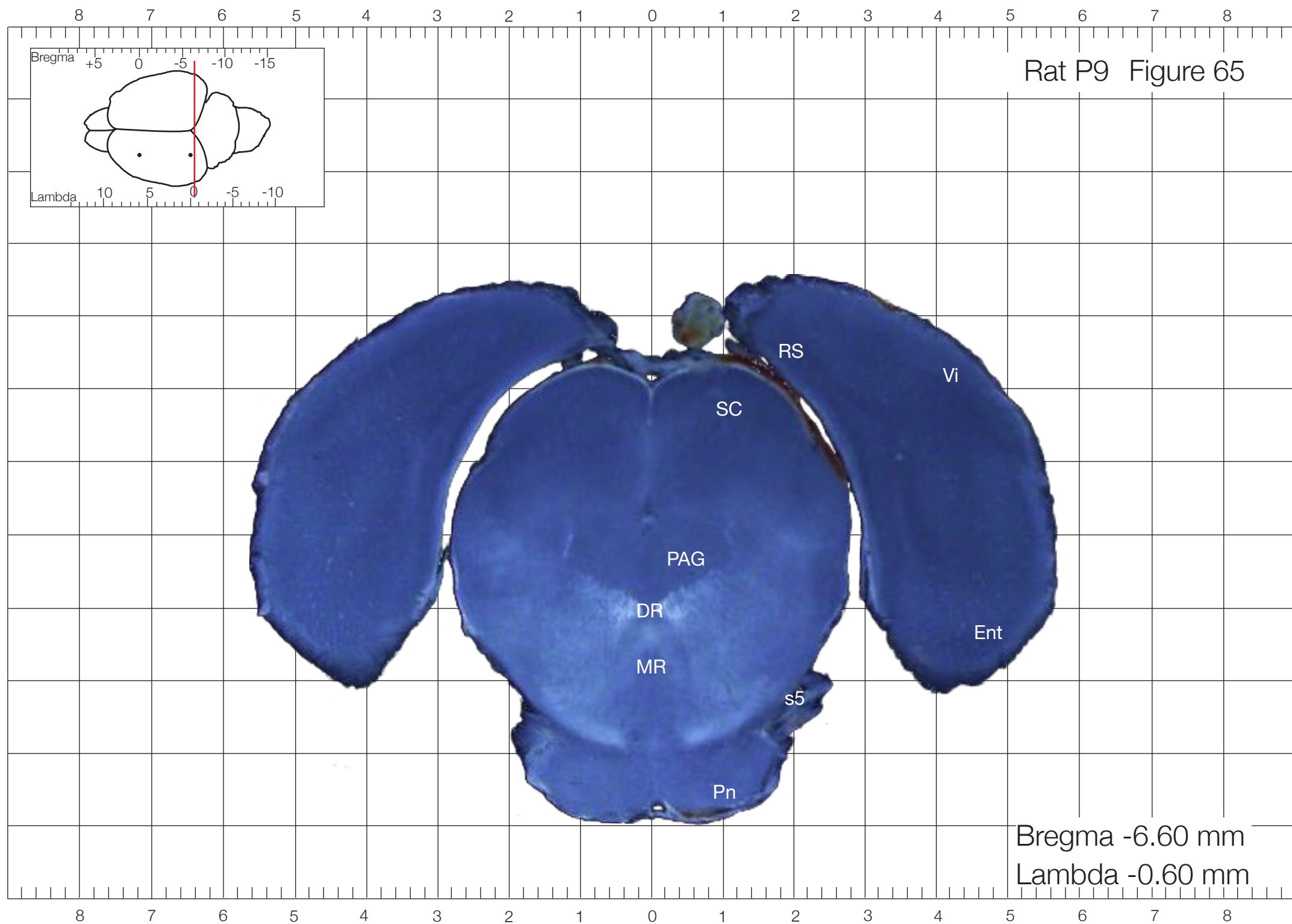


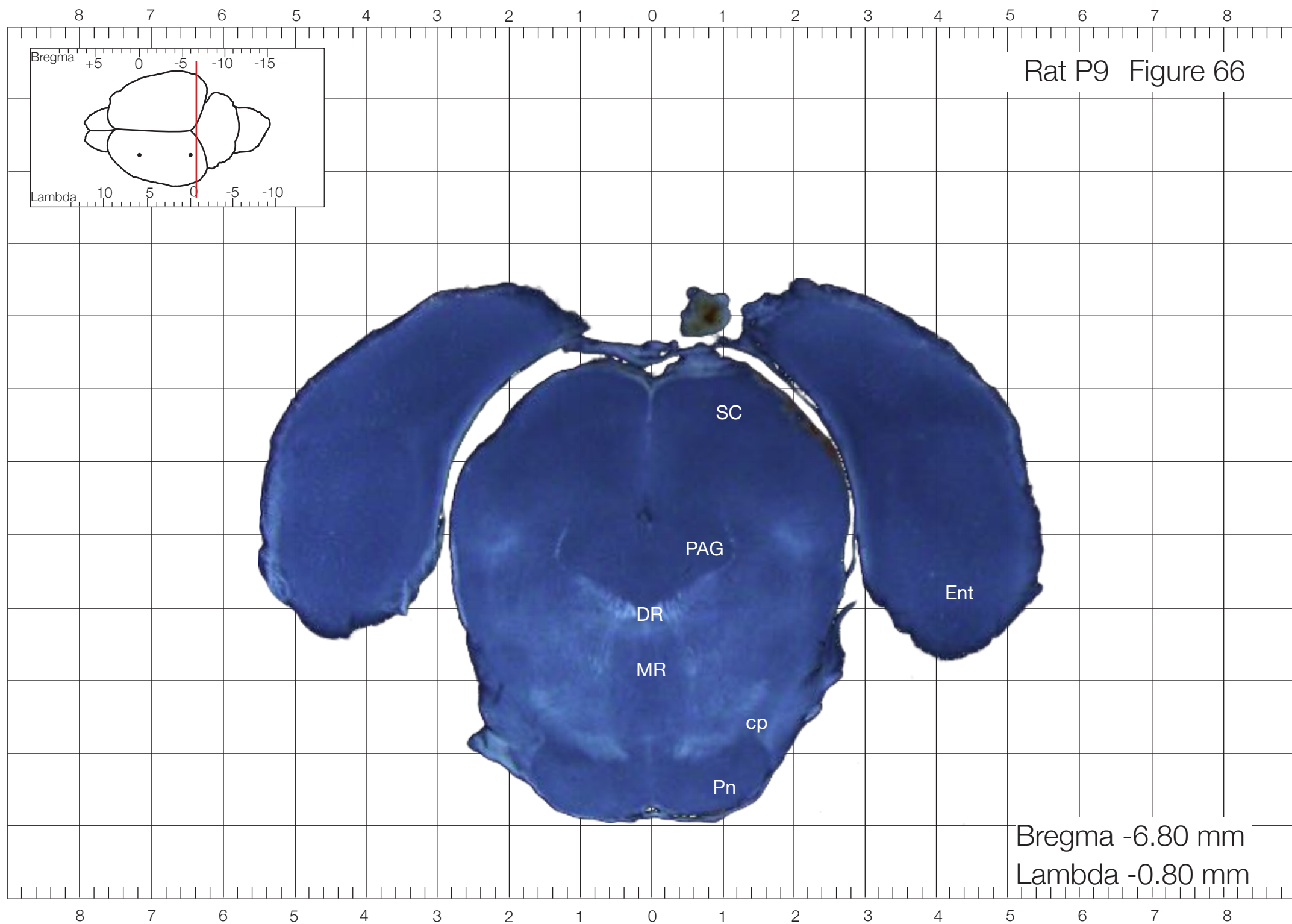


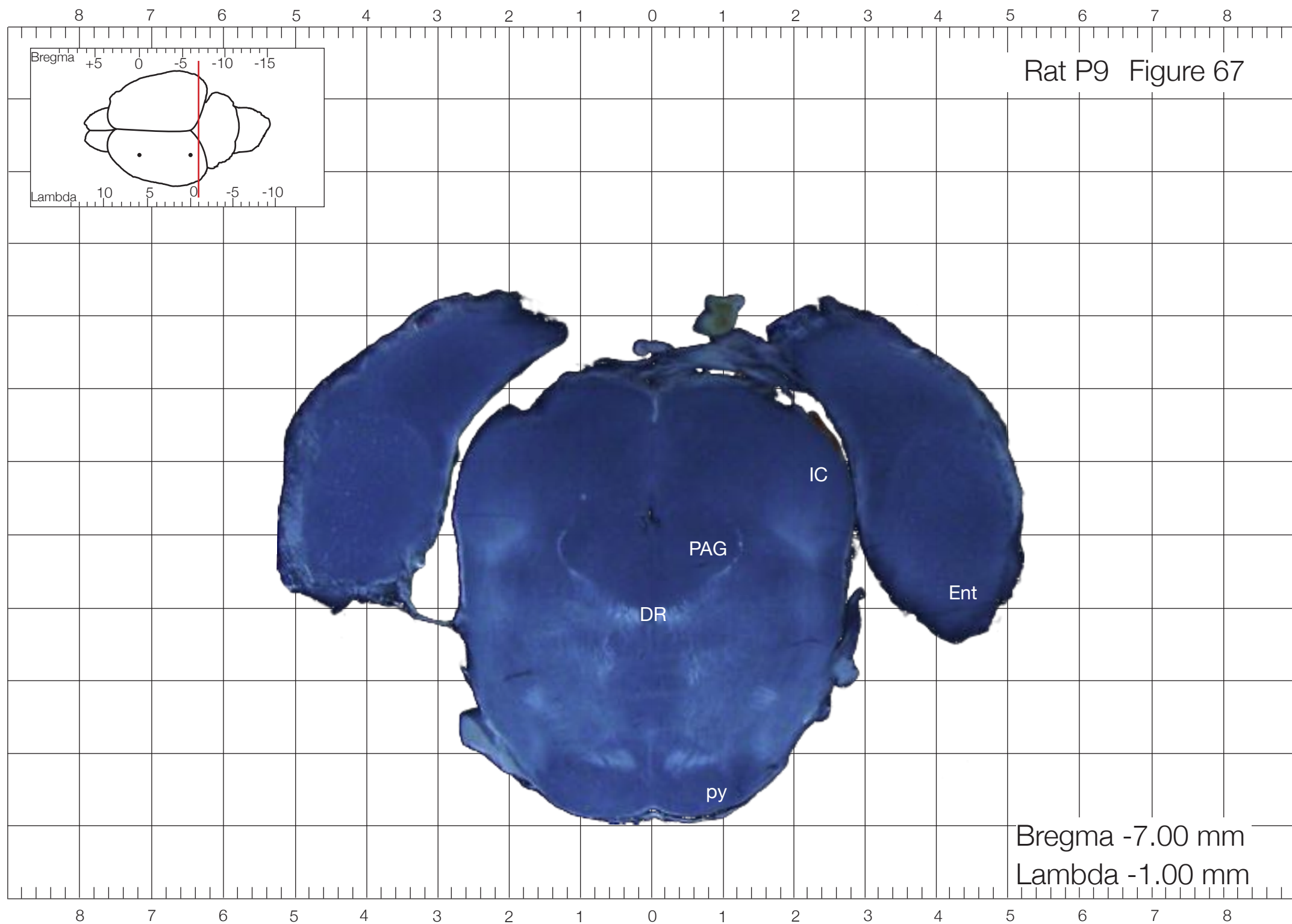
Rat P9 Figure 64

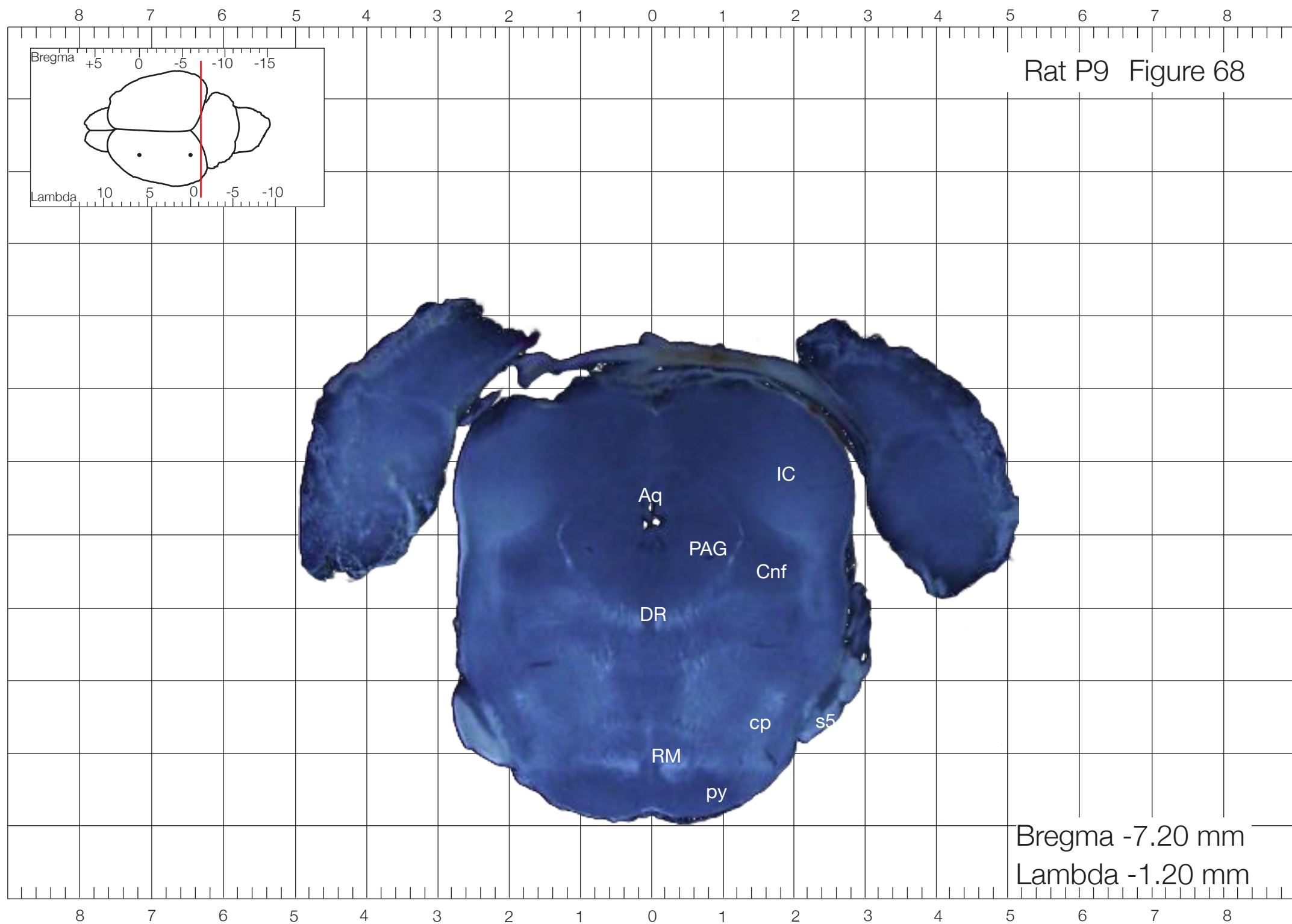


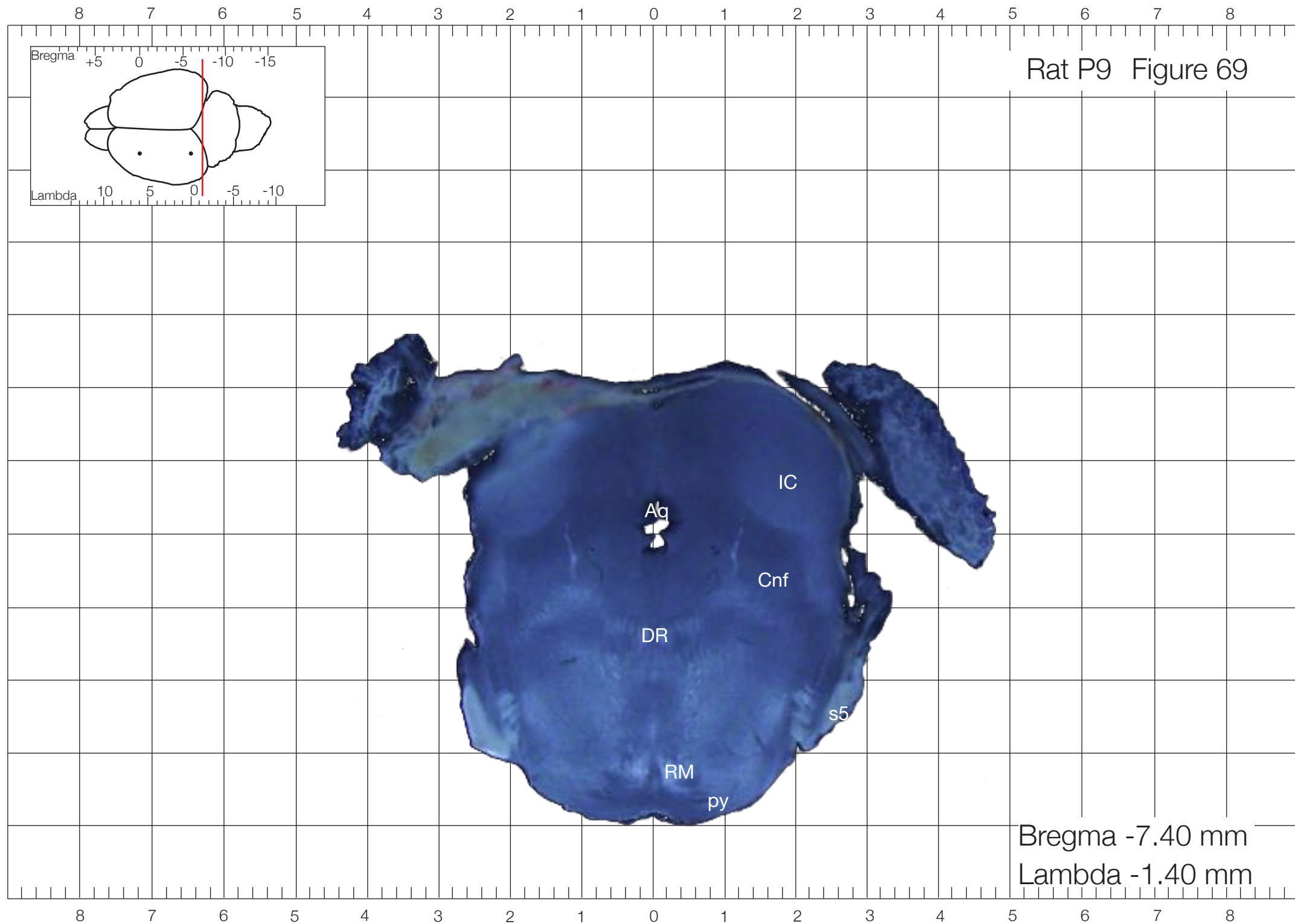
Bregma -6.40 mm
Lambda -0.40 mm

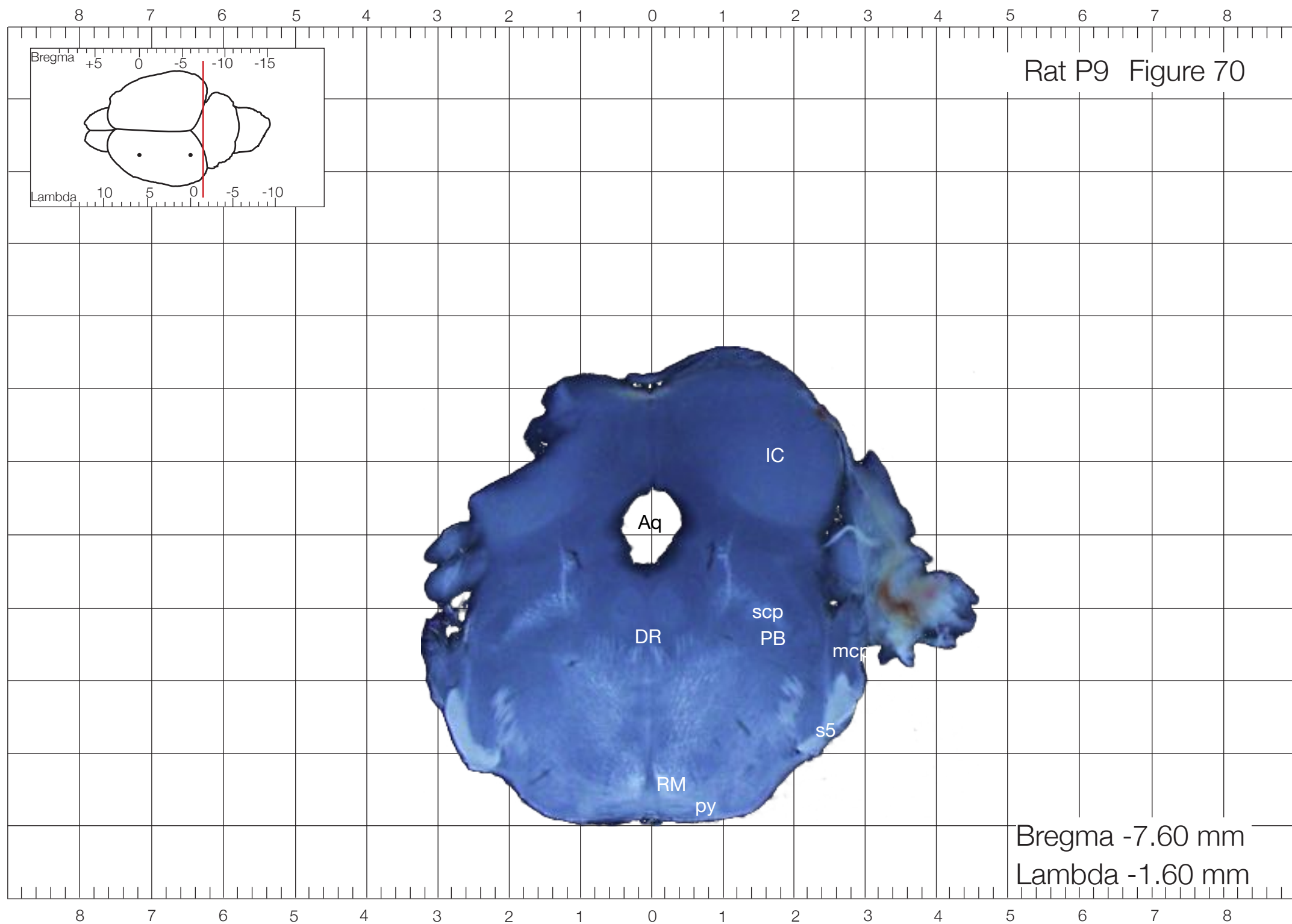


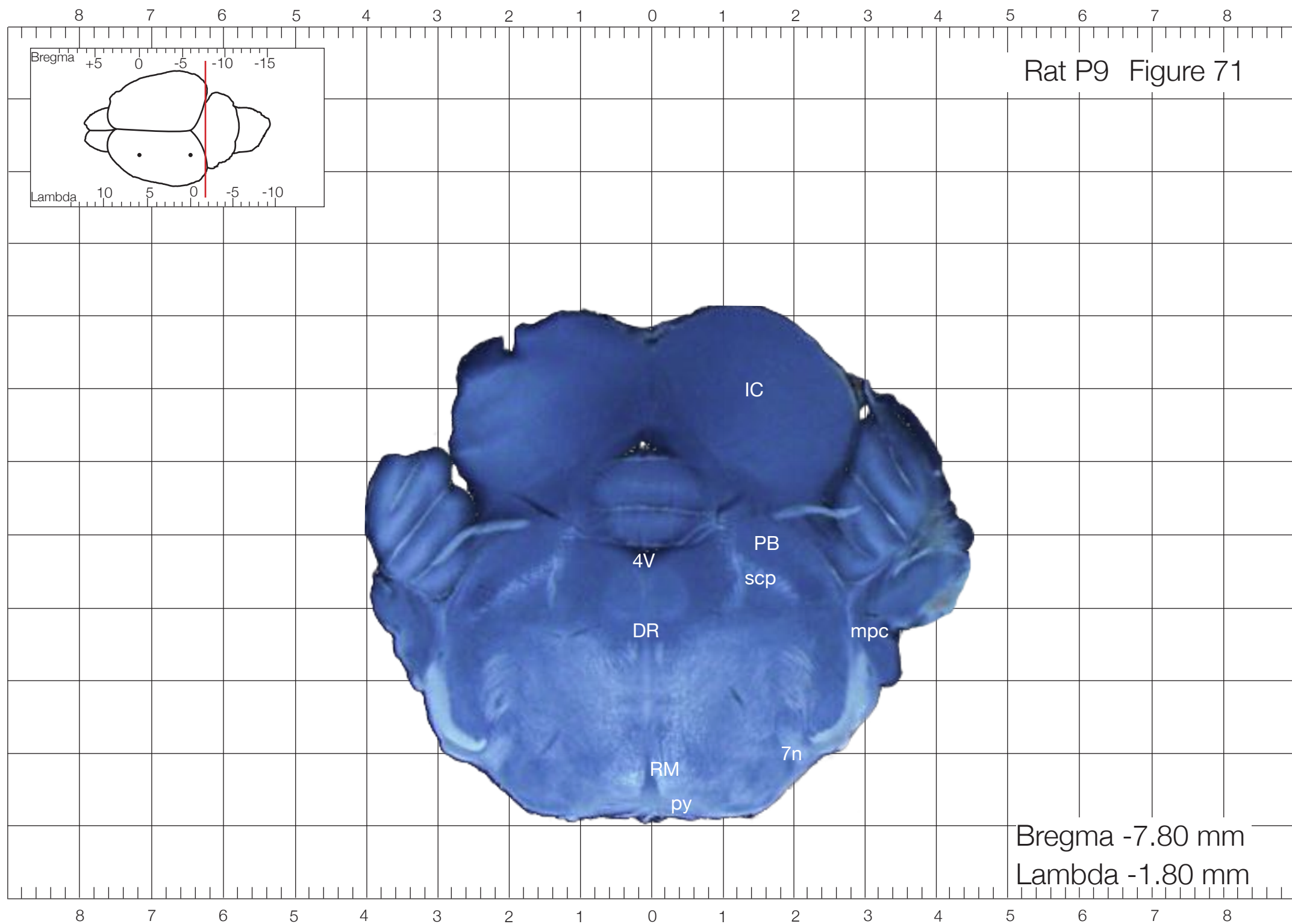


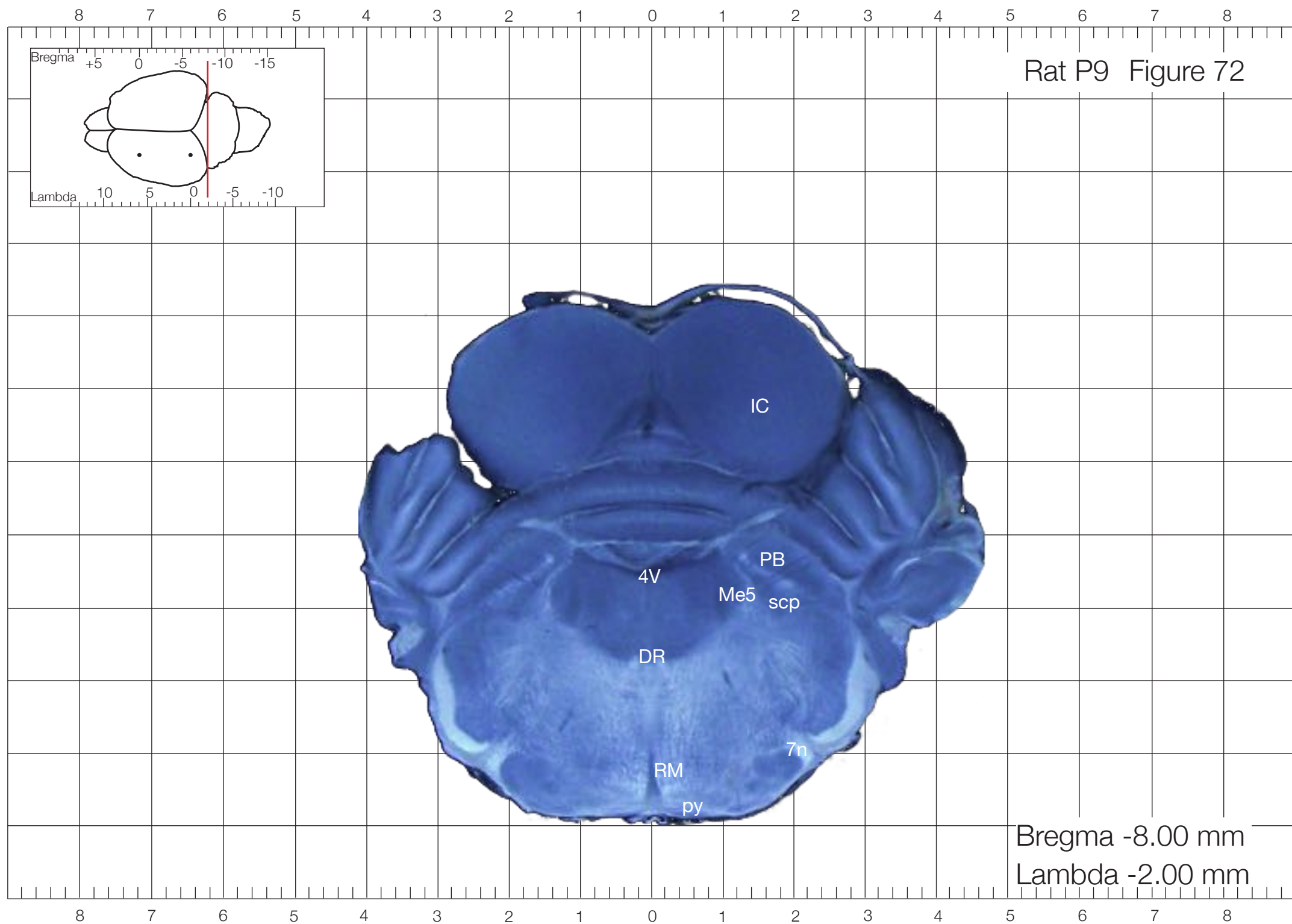


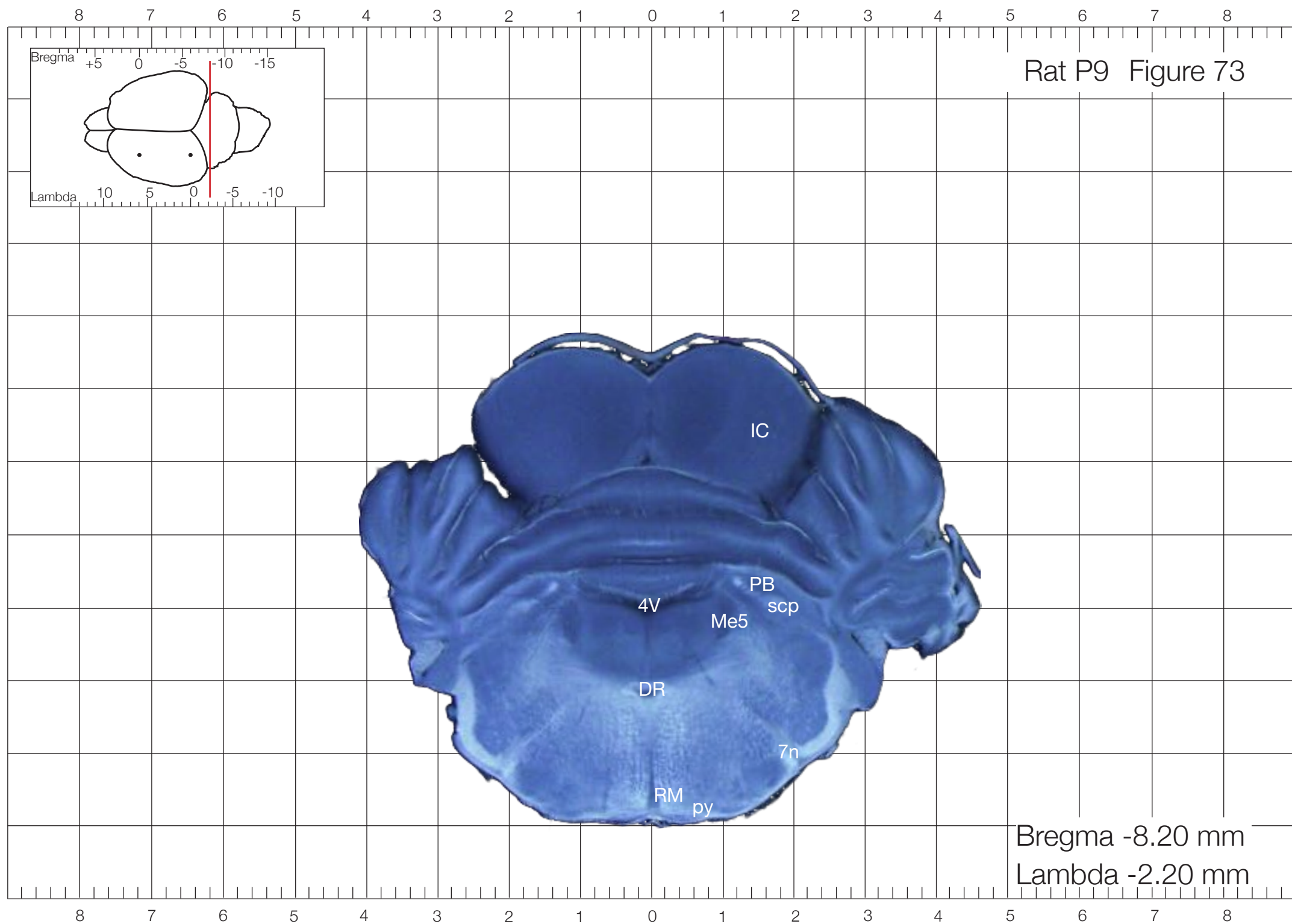


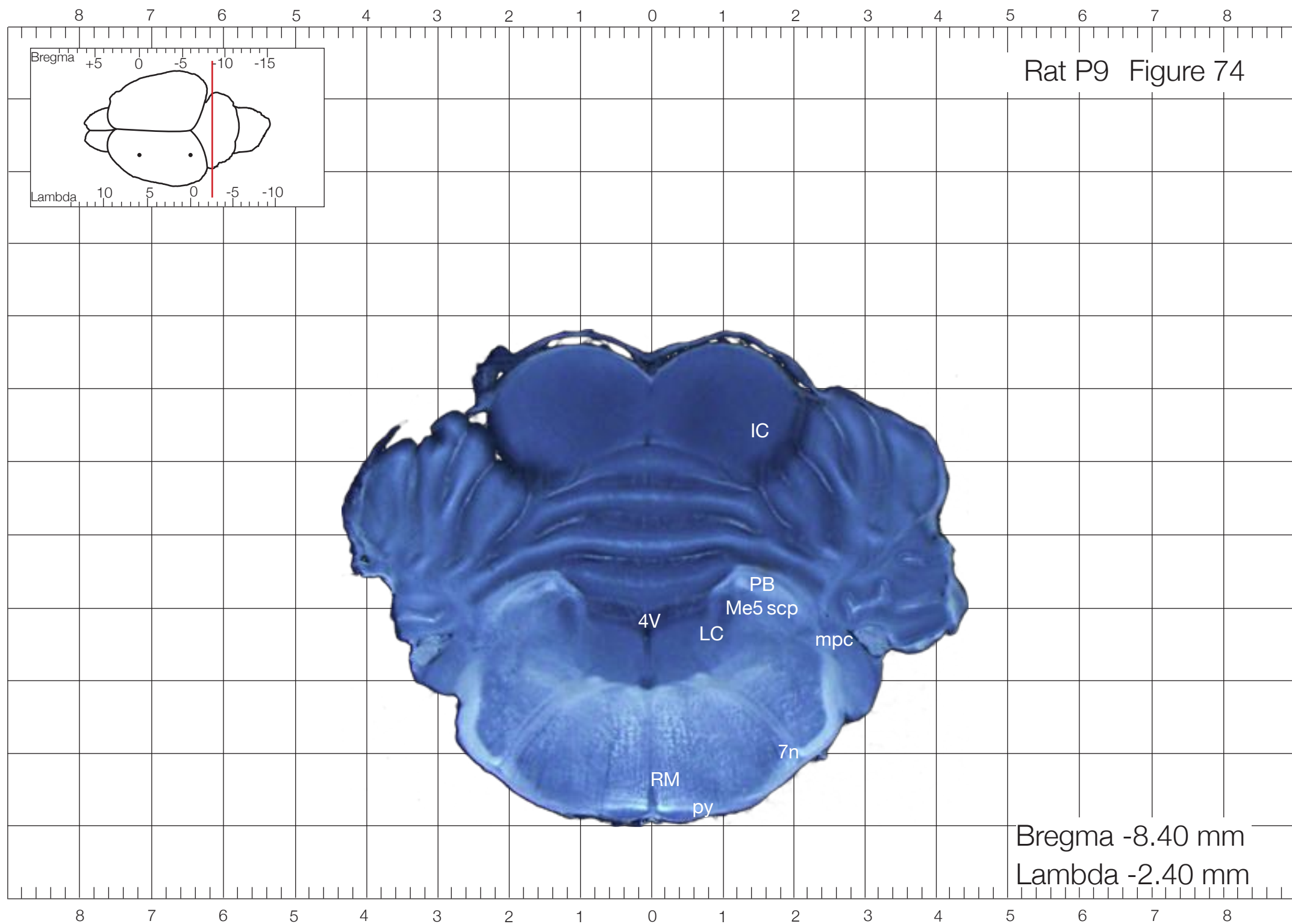


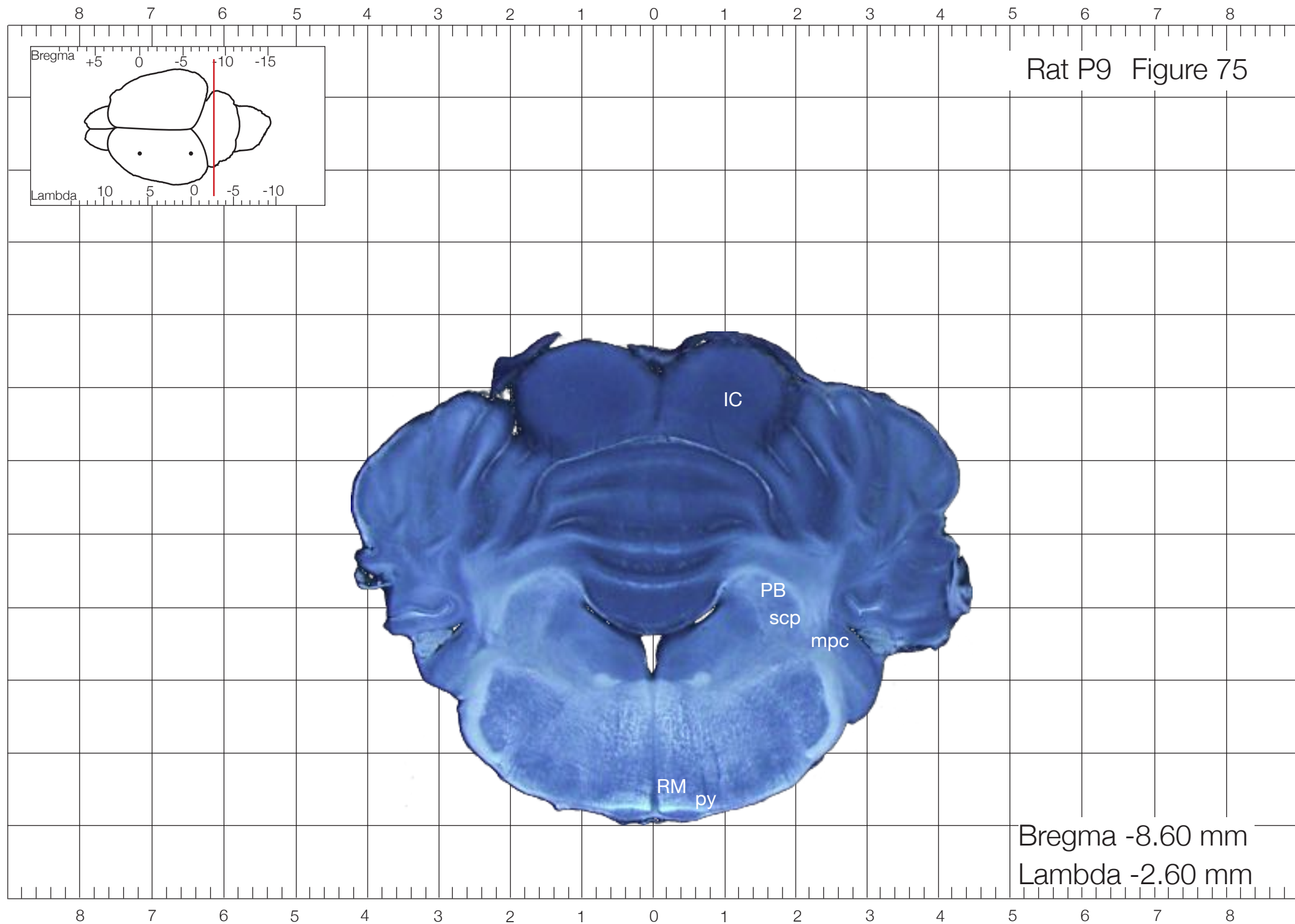


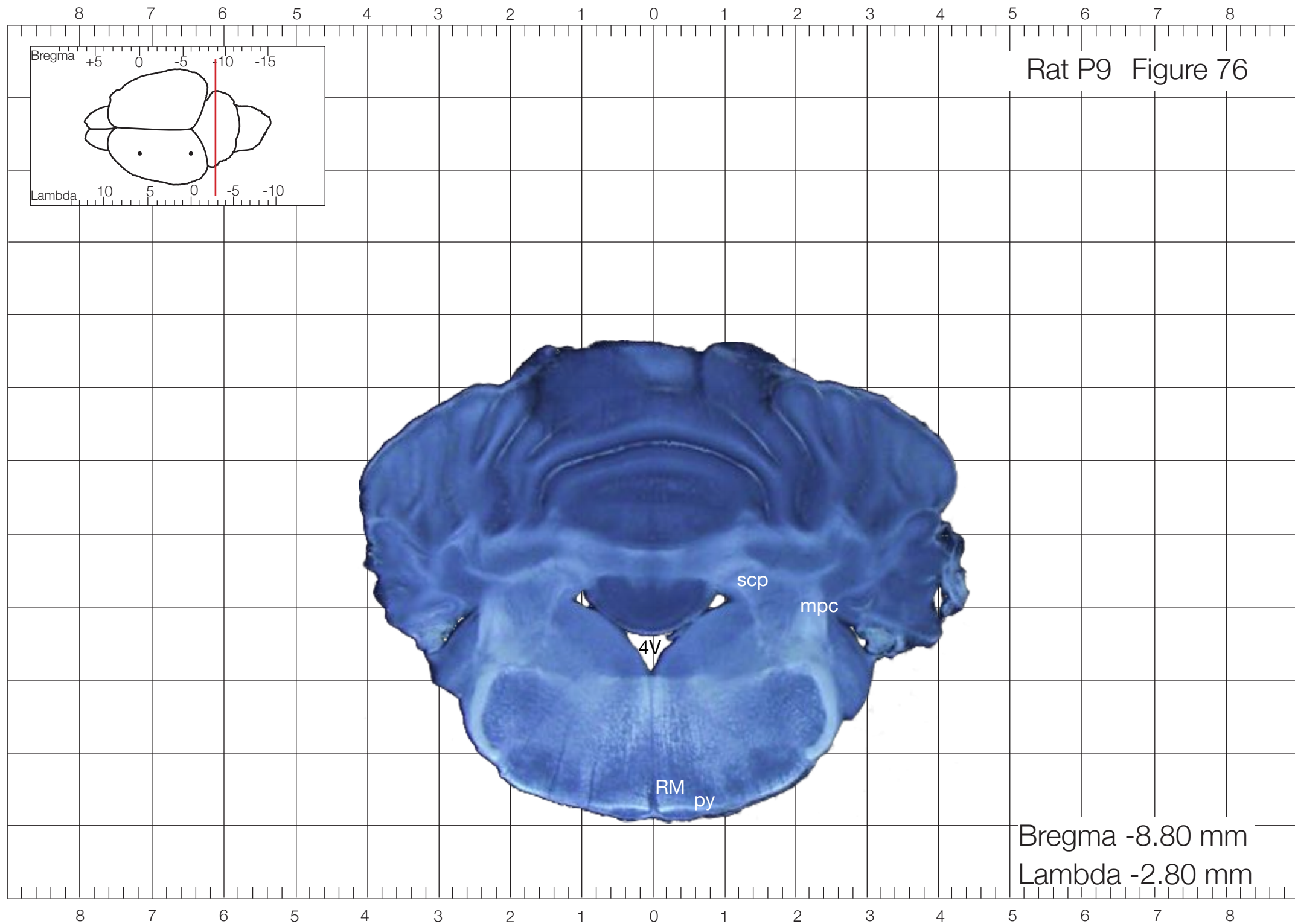


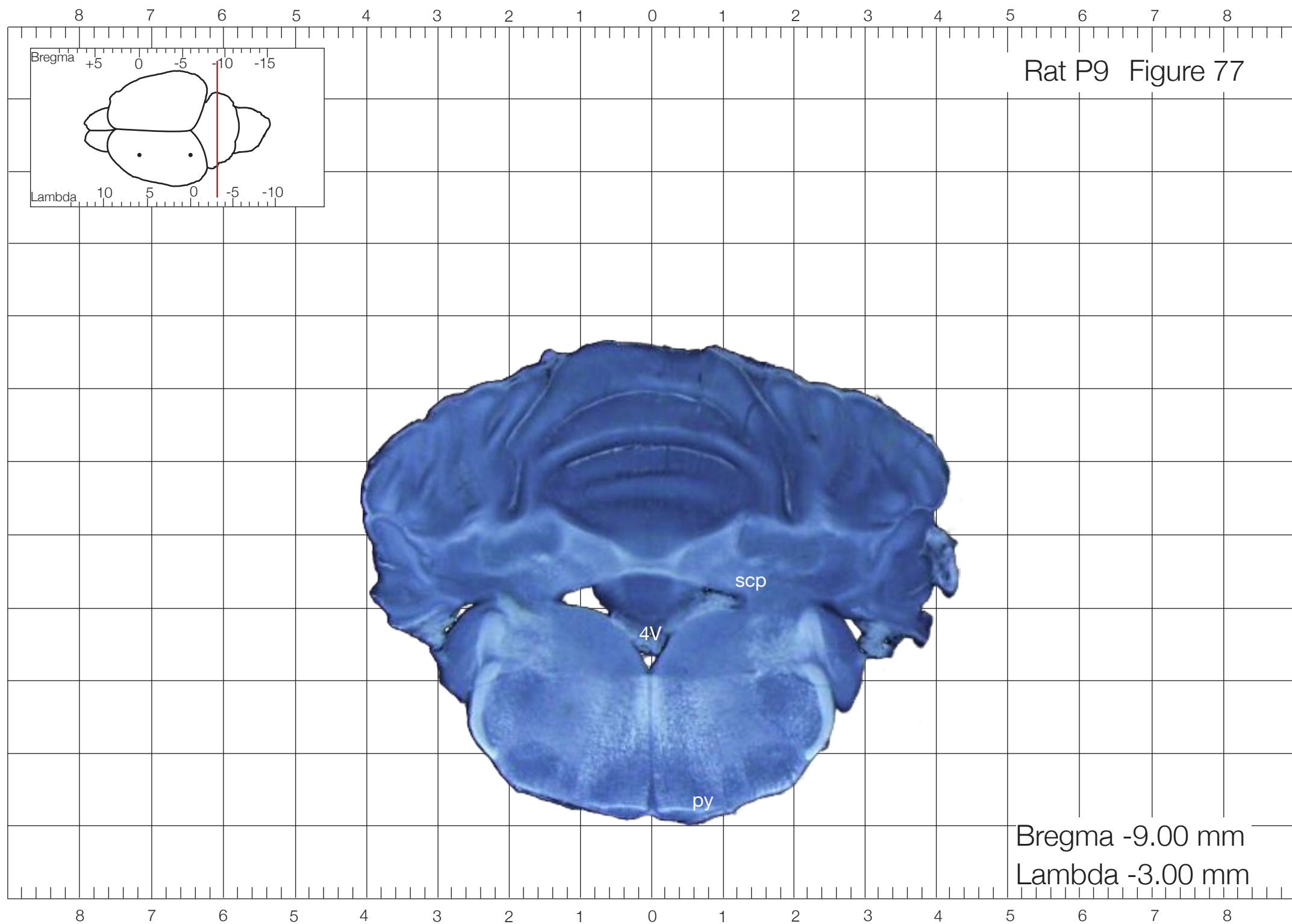


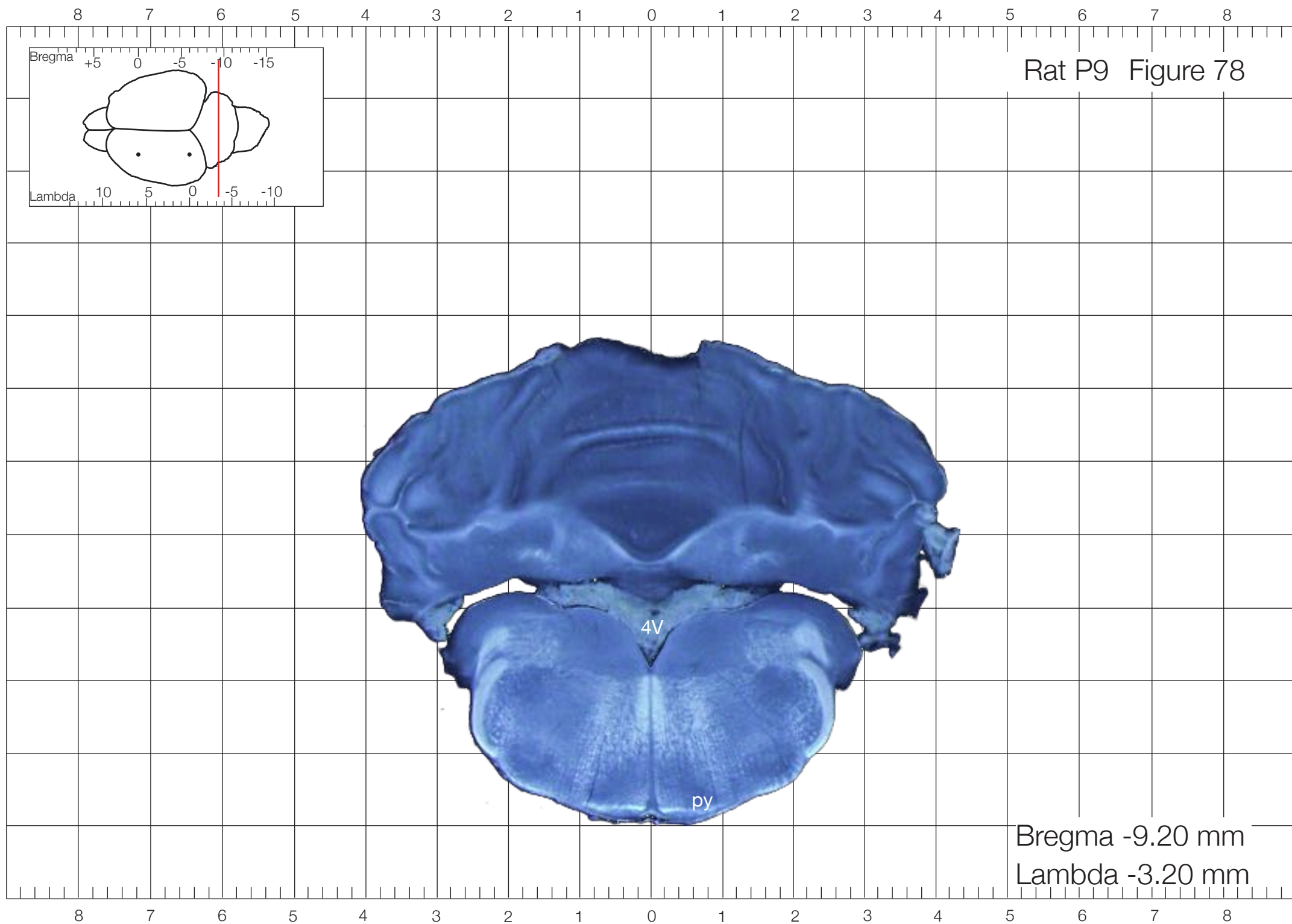


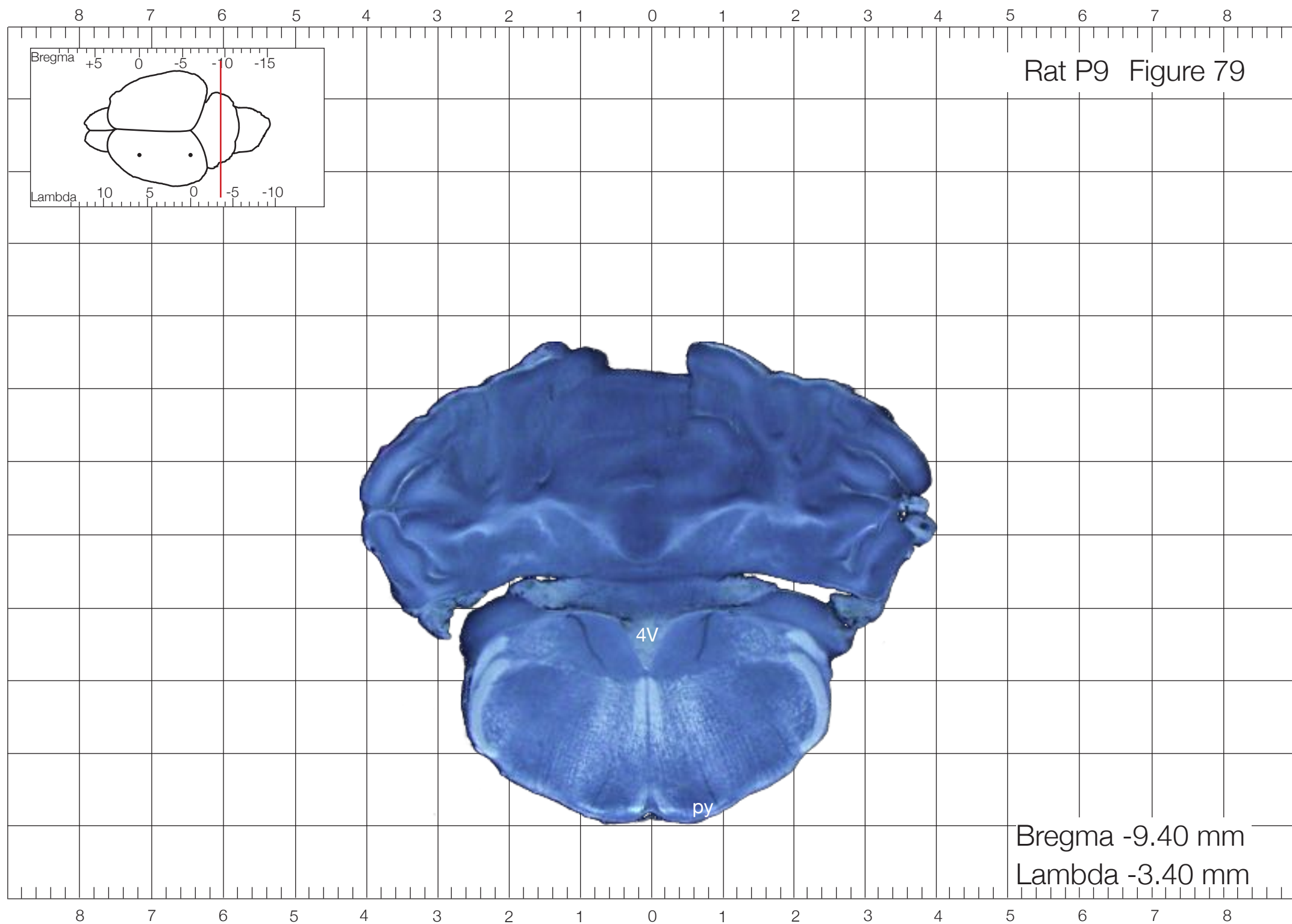


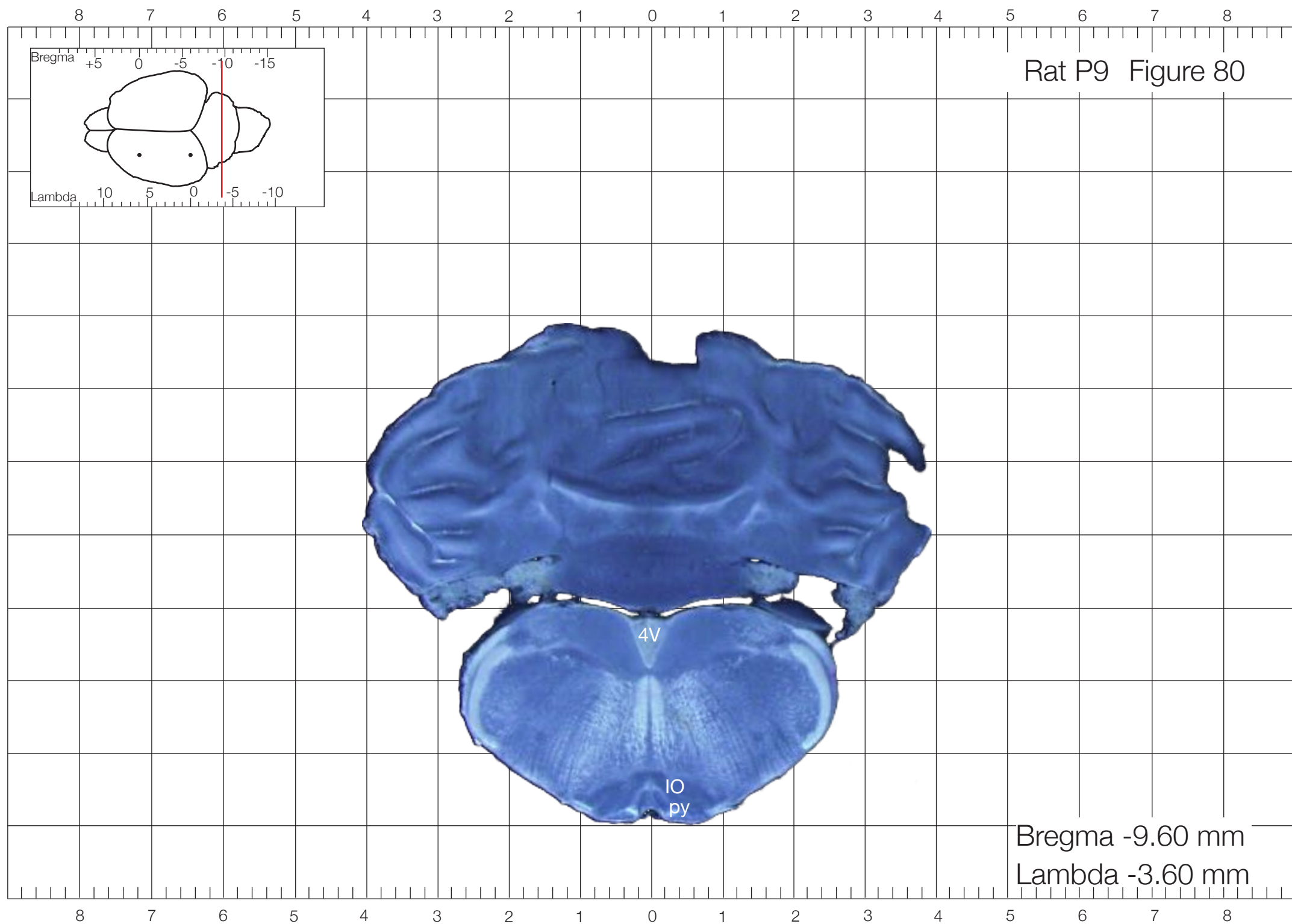


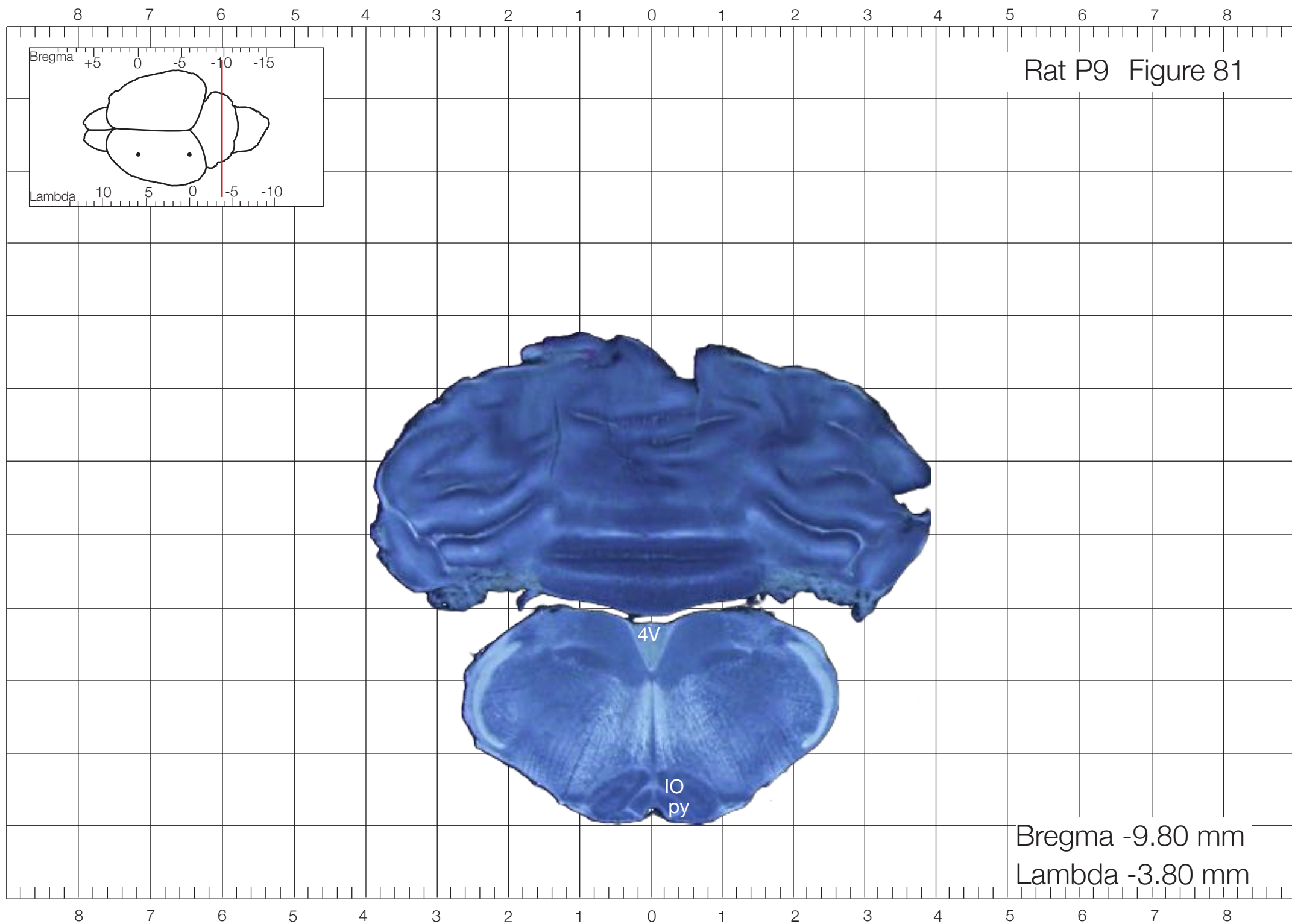


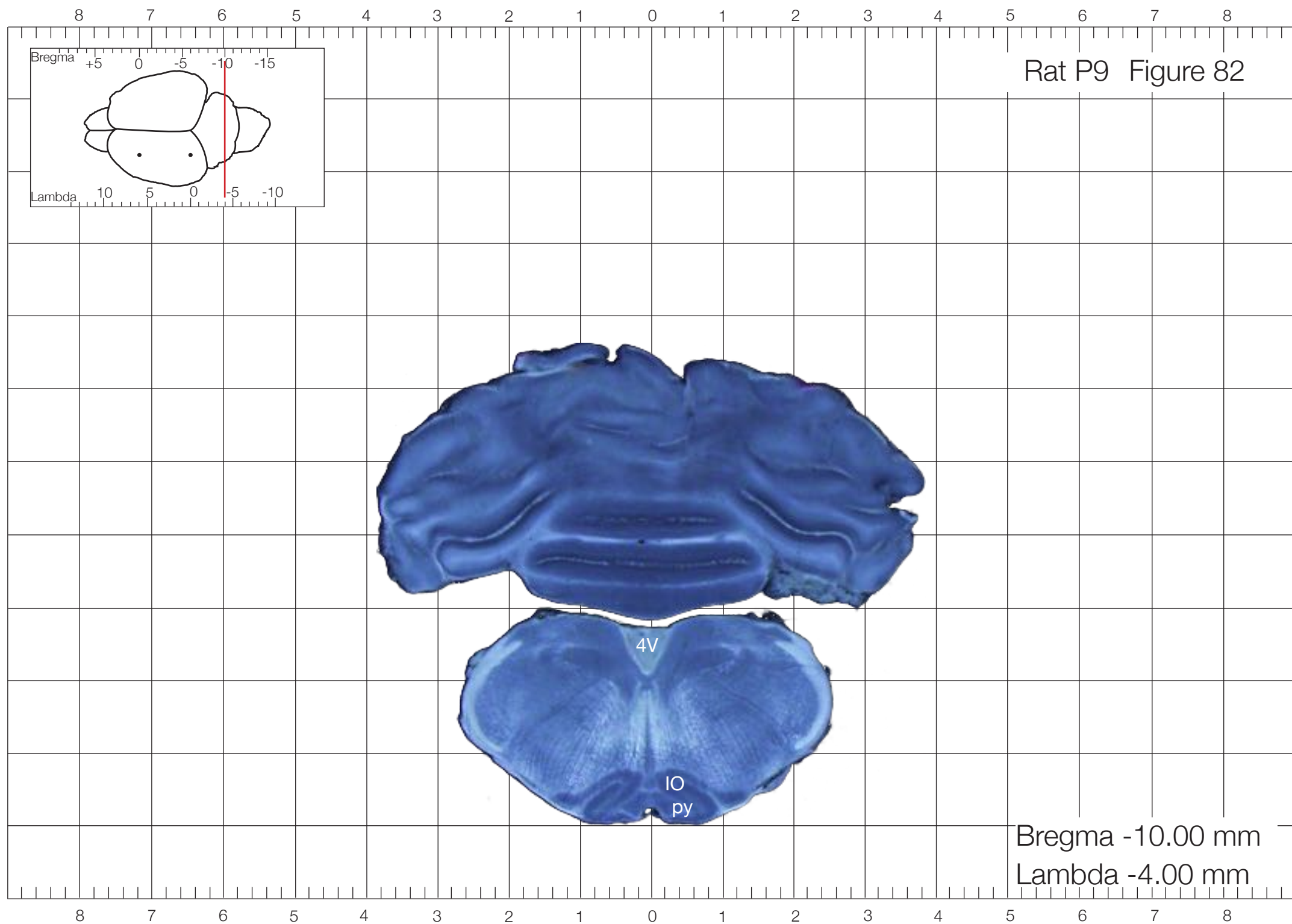


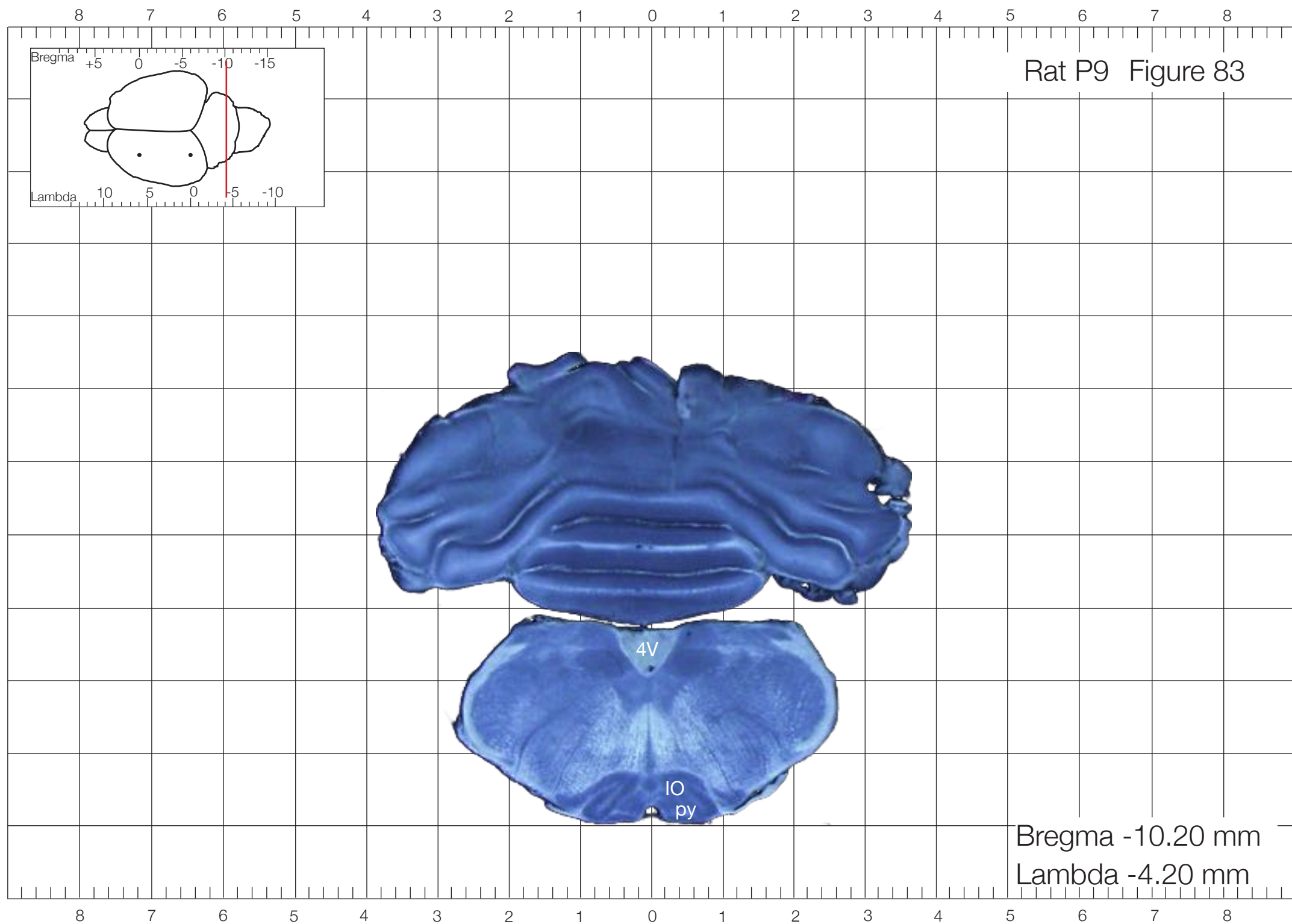


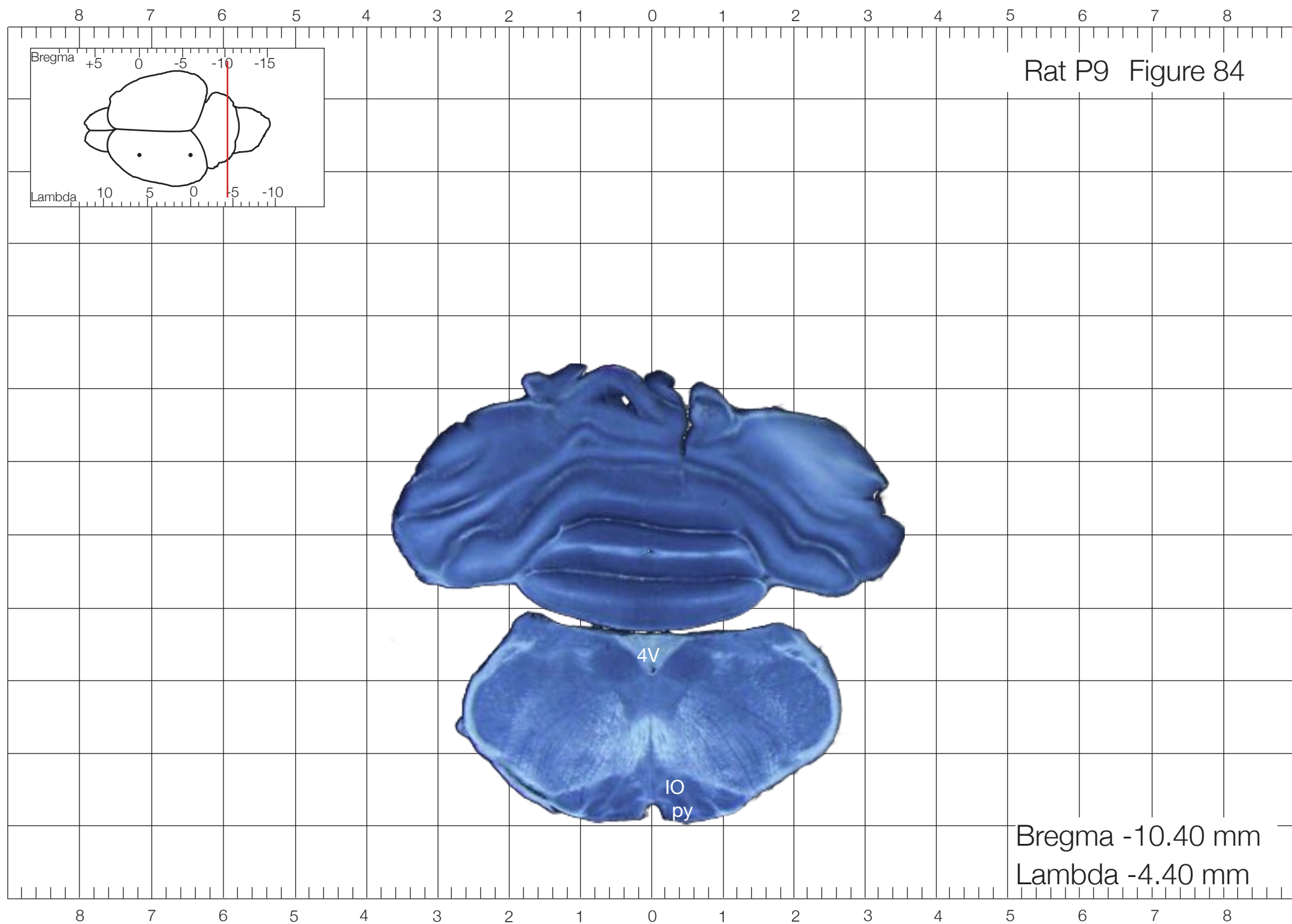


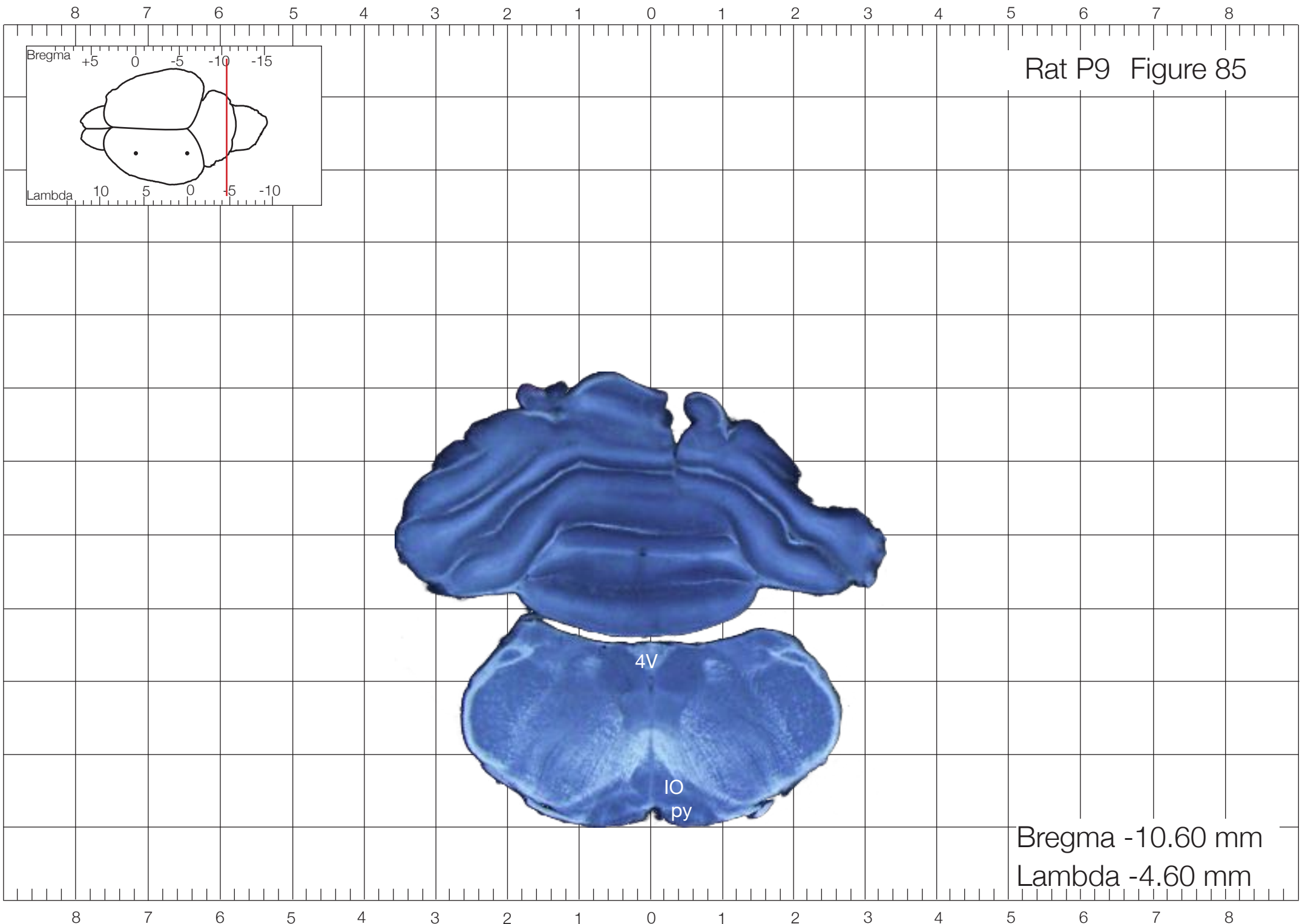












Rat P9 Figure 85

4V

IO
py

Bregma -10.60 mm
Lambda -4.60 mm

