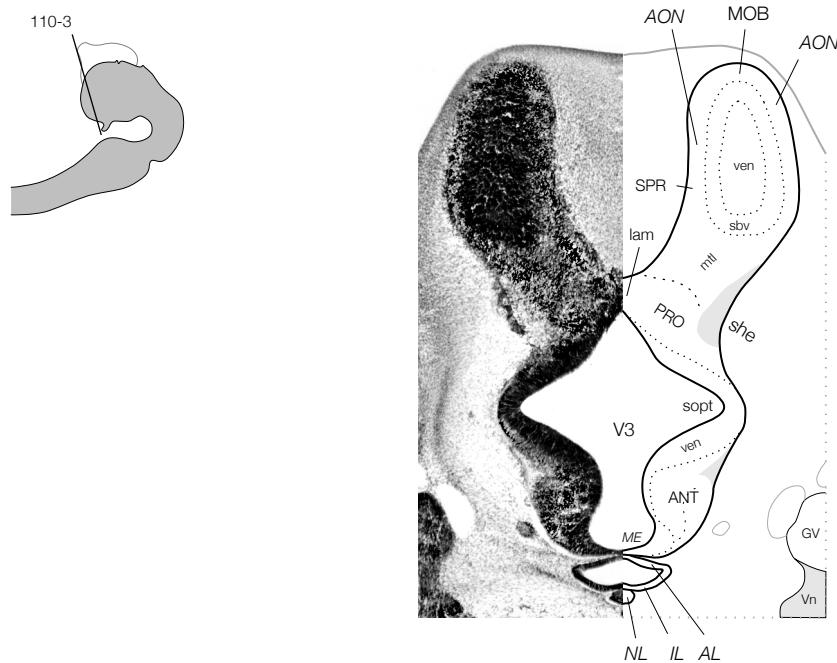


**F. Embryonic Day 13: *mantle layer differentiation***

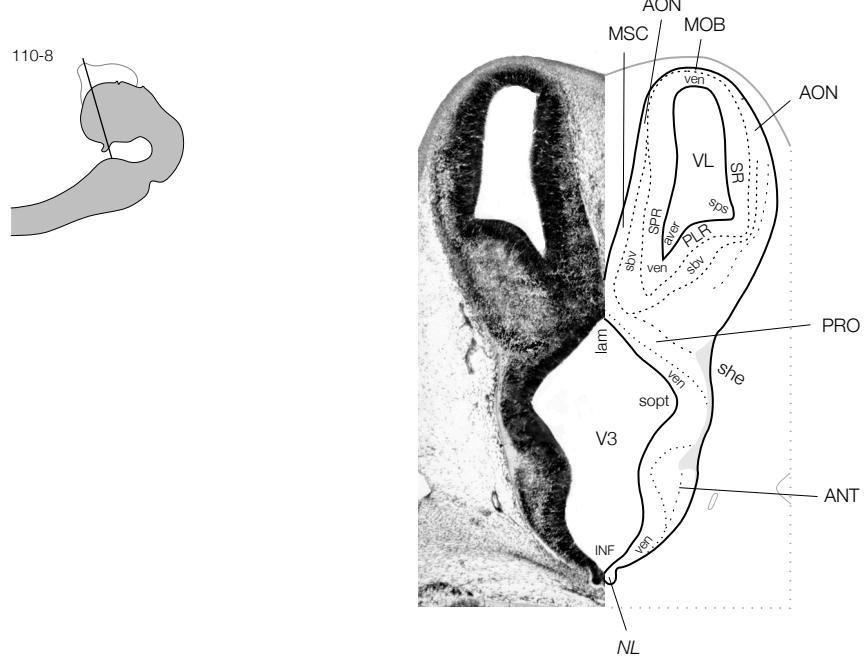
On e13 the brain mantle layer differentiates considerably, and a series of 25 approximately transverse sections has been chosen to illustrate this process.



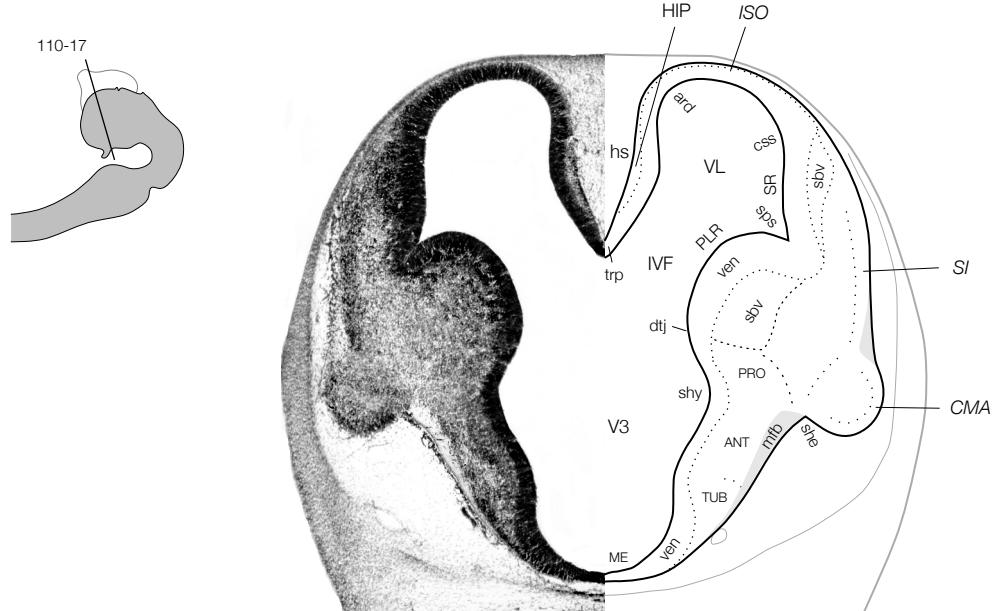
1



2



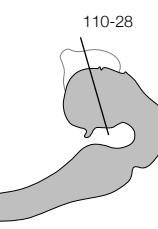
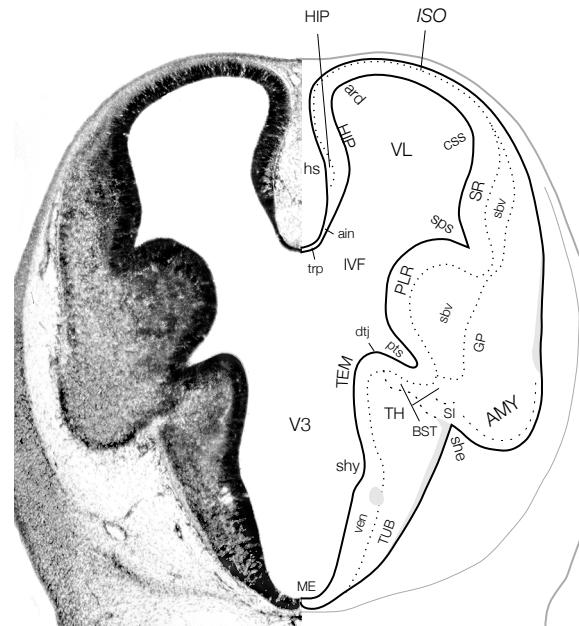
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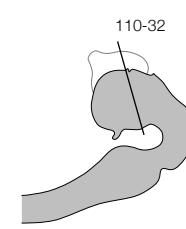
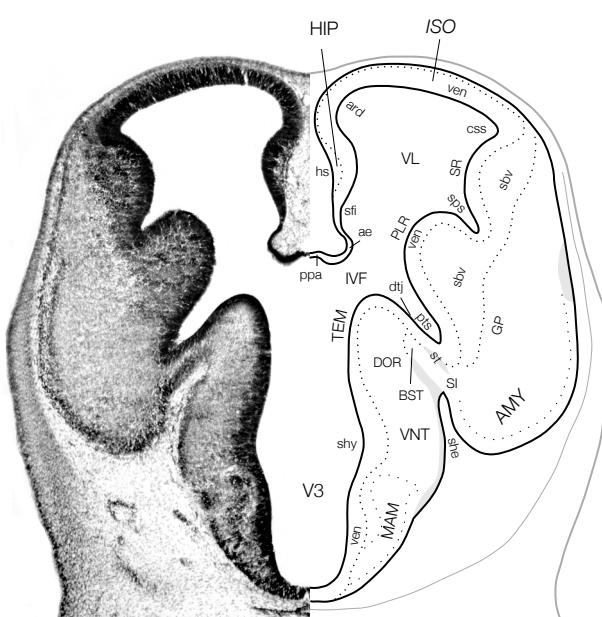
4

e13 transverse

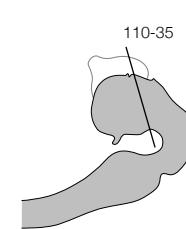
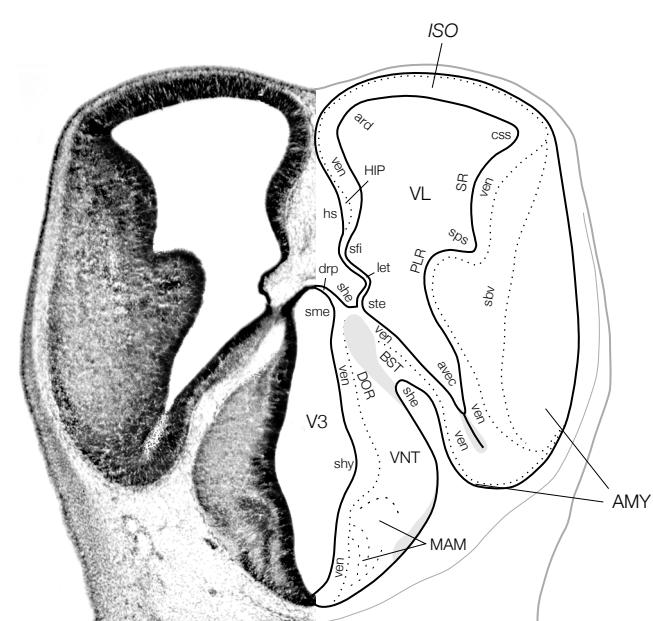
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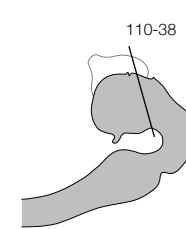
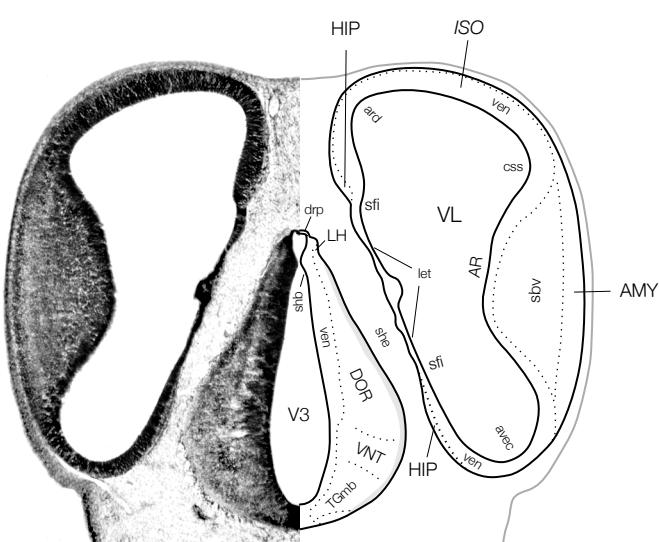
6



7



8



0.5 mm

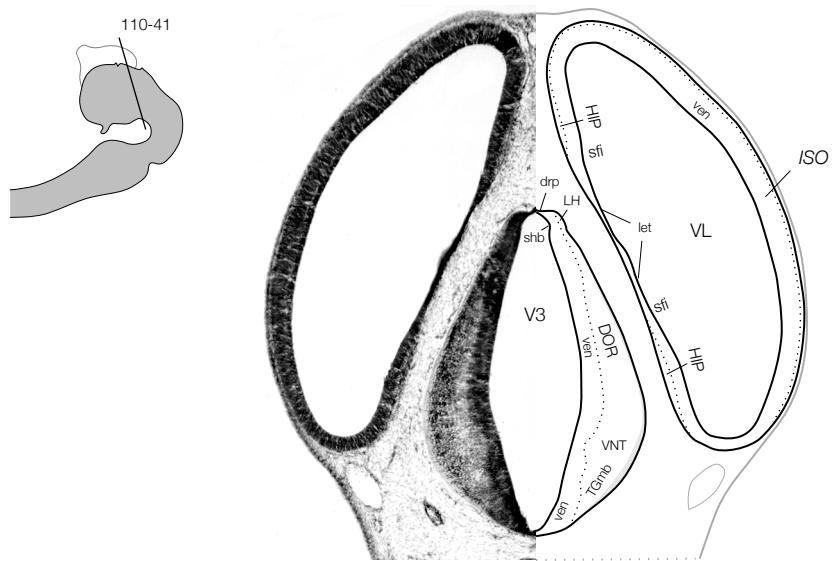
ae area epithelialis  
ain area intercalata  
AL pituitary gland, anterior lobe  
AMY amygdala  
ANT anterior level, hypothalamus  
AON anterior olfactory nucleus  
AR amygdalar ridge  
ard dorsal arch  
avec ventral angle, caudal  
aver ventral angle, rostral  
BST bed nuclei stria terminalis  
CMA corticomedial complex, amygdala  
css corticostratial sulcus  
DOR dorsal thalamus  
drp diencephalic roof plate  
dtj ditelencephalic junction  
GP globus pallidus  
GV trigeminal ganglion  
HIP hippocampal region

hs hippocampal sulcus  
IL pituitary gland, intermediate lobe  
INF infundibulum  
ISO isocortex  
IVF interventricular foramen  
lam lamina terminalis  
let lamina epithelialis  
LH lateral habenula  
MAM mammillary level, hypothalamus  
ME median eminence  
mfb medial forebrain bundle  
MOB main olfactory bulb  
MSC medial septal complex  
mtl mantle layer, neural tube  
NL pituitary gland, neural lobe  
os optic stalk  
PLR pallidal ridge  
ppa paraphysial arch (SFO)  
PRO preoptic level, hypothalamus

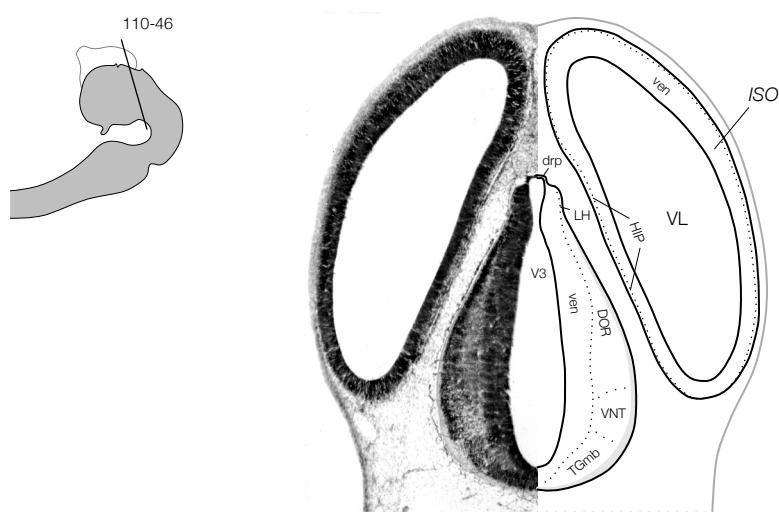
pts pallidothalamic sulcus  
sbv subventricular layer, neural tube  
sfi fimbrial sulcus  
shb habenular sulcus  
she hemispheric sulcus  
shy hypothalamic sulcus  
SI substantia innominata  
sme sulcus medullaris  
sopt optic sulcus  
SPR septal ridge  
sps pallidostratial sulcus  
SR striatal ridge  
st stria terminalis  
ste sulcus terminalis  
TEM thalamic eminence  
TGmb tegmentum, midbrain  
TH thalamus  
trp telencephalic roof plate  
TUB tuberal level, hypothalamus

V3 third ventricle  
ven ventricular layer, neural tube  
VL lateral ventricle  
Vn trigeminal nerve  
VNT ventral thalamus

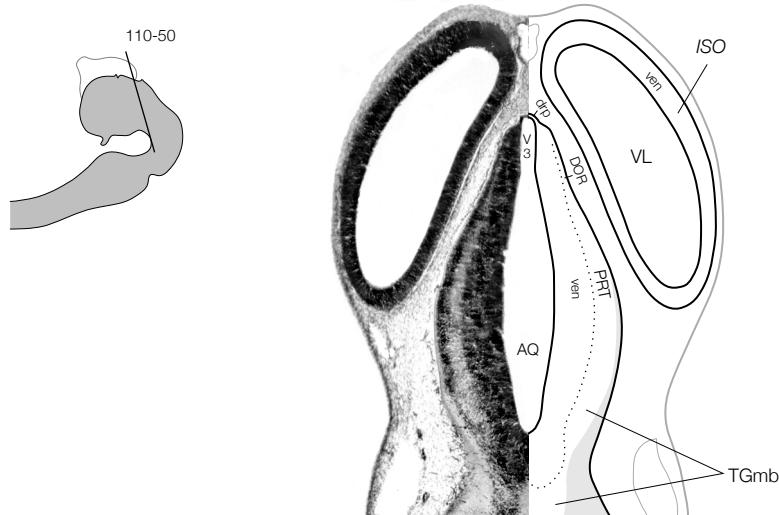
9



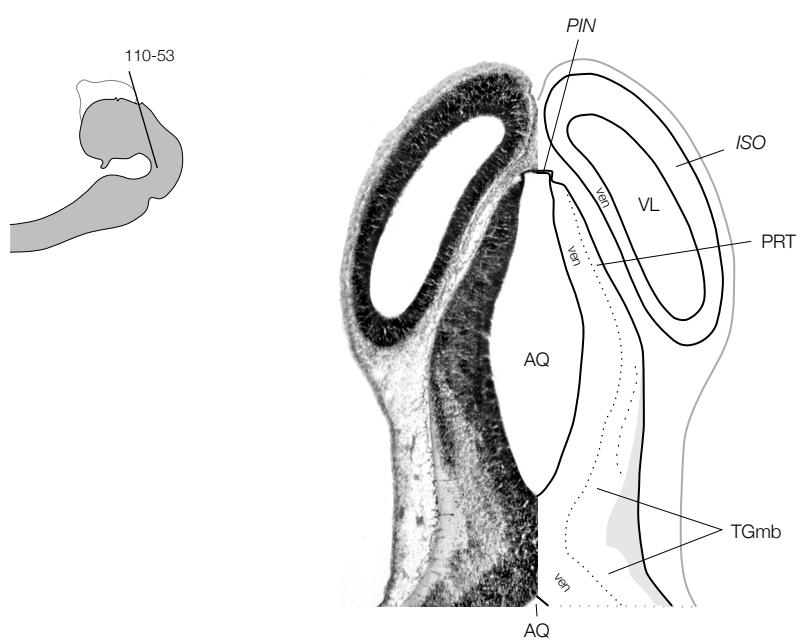
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11

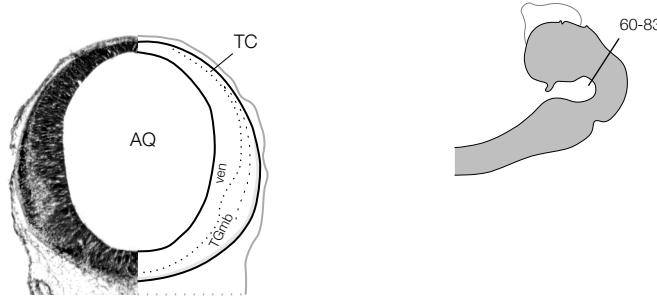


12

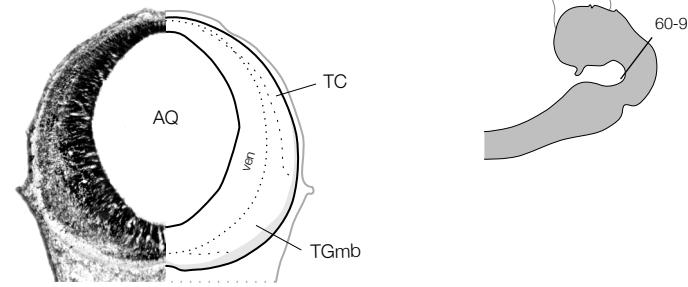


e13 transverse

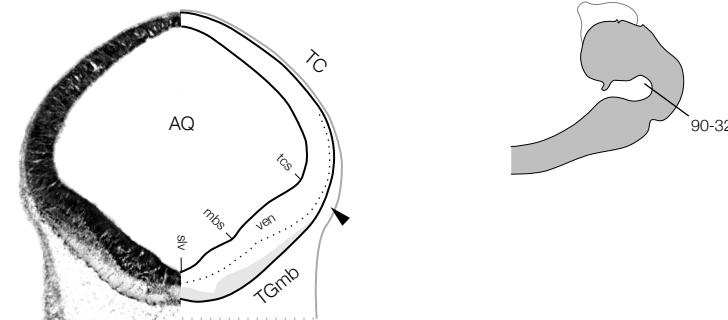
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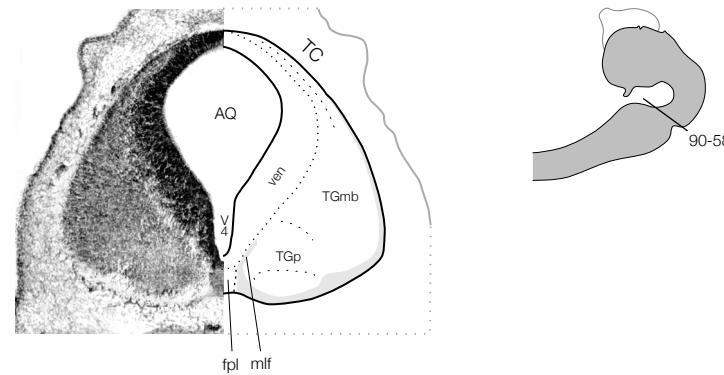
14



15



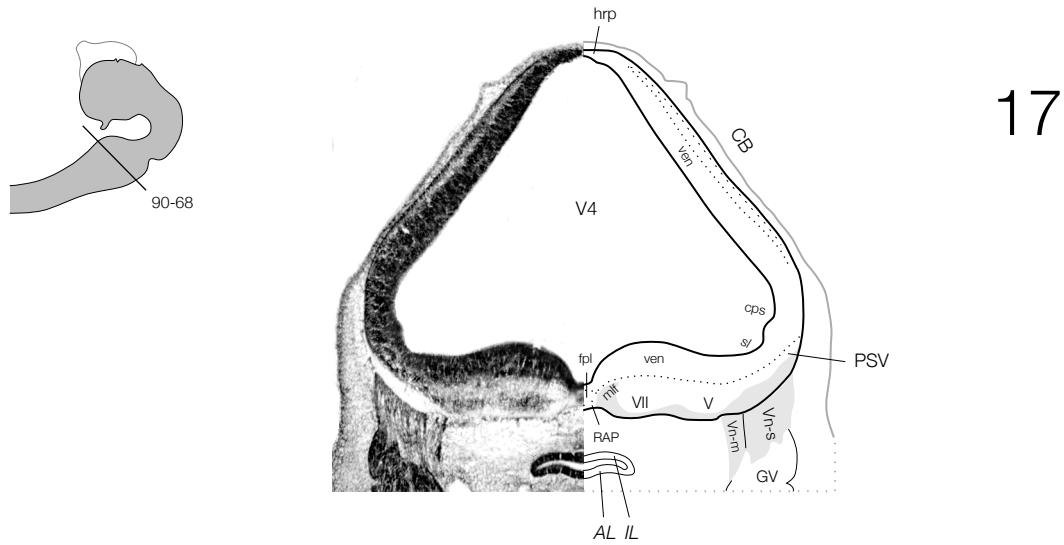
16



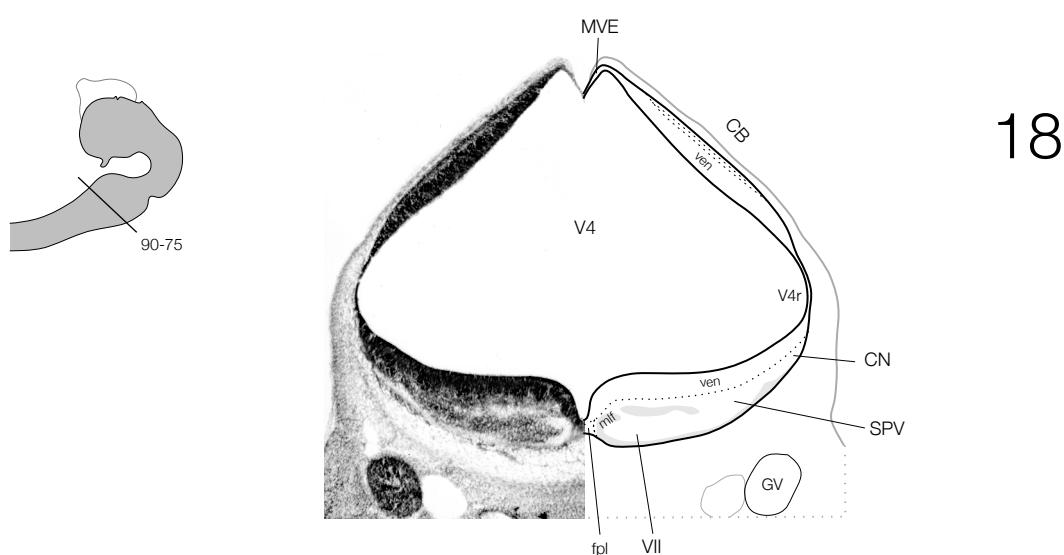
0.5 mm

AQ cerebral aqueduct  
 DOR dorsal thalamus  
 drp diencephalic roof plate  
 fpl floor plate  
 HIP hippocampal region  
 ISO isocortex  
 let lamina epithelialis  
 LH lateral habenula  
 mbs midbrain sulcus  
 mlf medial longitudinal fascicle  
 PIN pineal gland  
 PRT preoptic region  
 sfi fimbrial sulcus  
 shb habenular sulcus  
 slv ventral longitudinal sulcus  
 TC tectum  
 tcs tectal sulcus  
 TGmb tegmentum, midbrain  
 --p --, pons

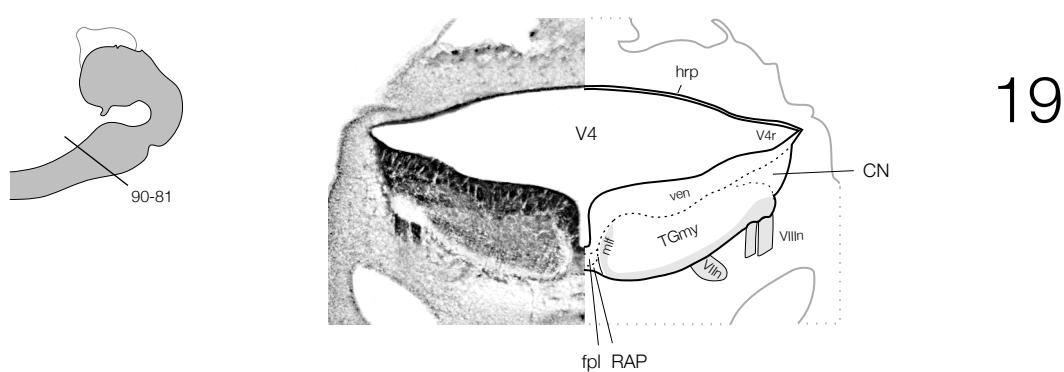
V3 third ventricle  
 V4 fourth ventricle  
 ven ventricular layer, neural tube  
 VL lateral ventricle  
 VNT ventral thalamus



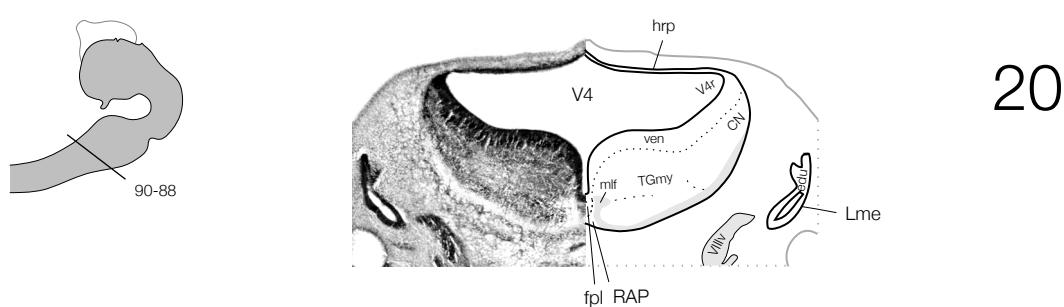
17



18



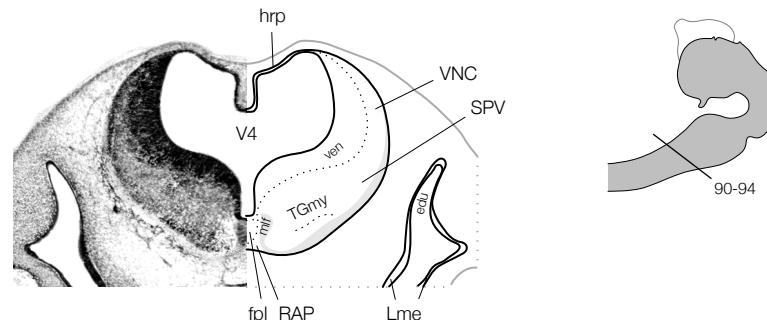
19



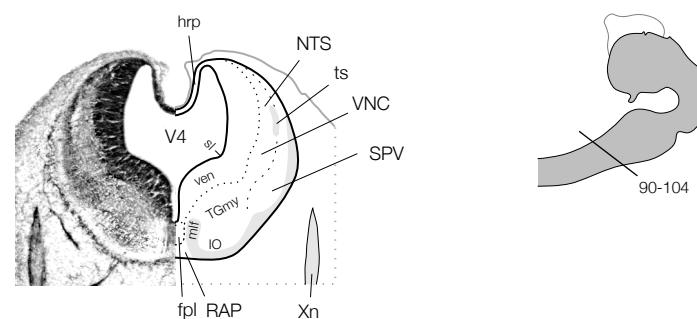
20

e13 transverse

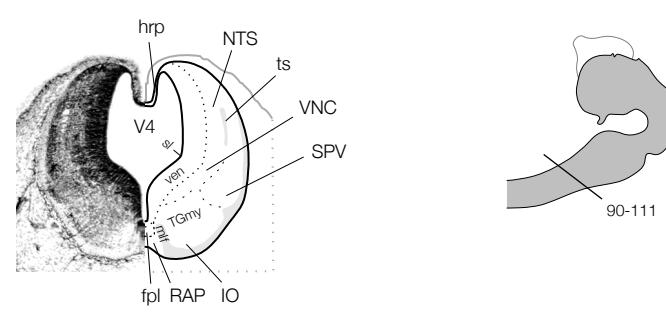
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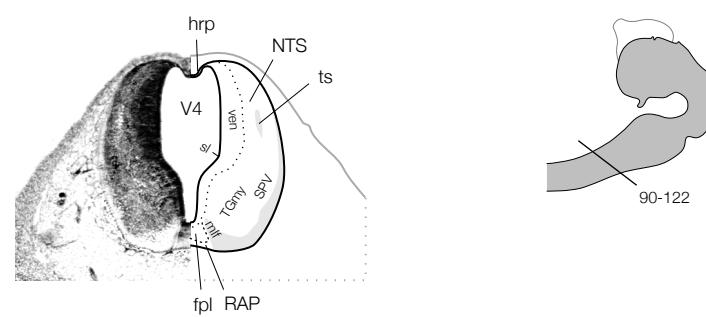
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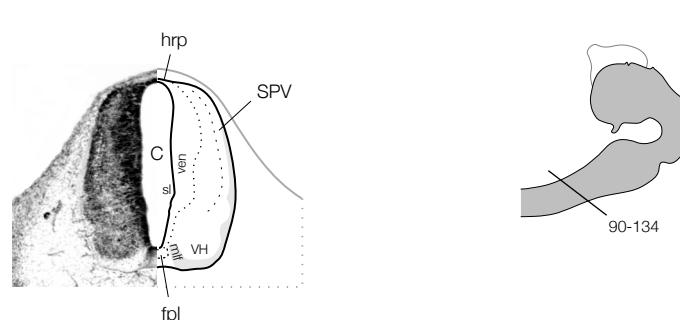
23



24



25



0.5 mm

AL pituitary gland, anterior lobe  
 C central canal, spinal cord/medulla  
 CB cerebellum  
 CN cochlear nuclei  
 cps cerebellopontine sulcus  
 edu endolymphatic duct  
 fpl floor plate  
 GV trigeminal ganglion  
 hrp hindbrain root plate  
 IL pituitary gland, intermediate lobe  
 IO inferior olive  
 Lme membranous labyrinth  
 mlf medial longitudinal fascicle  
 MVE medullary velum  
 NTS nucleus of the solitary tract  
 PSV principal sensory nucleus of the trigeminal  
 RAP brainstem raphe  
 sl sulcus limitans  
 SPV spinal nucleus of the trigeminal

TGmy tegmentum, medulla  
 ts solitary tract  
 V4 fourth ventricle  
 V4r fourth ventricle, lateral recess  
 V motor nucleus of the trigeminal nerve  
 ven ventricular layer, neural tube  
 VH ventral horn, spinal cord  
 VII facial nucleus  
 VIII facial nerve  
 VIIIIn vestibulocochlear nerve  
 VNC vestibular nuclei  
 Vn-m motor root of the trigeminal nerve  
 Vn-s sensory root of the trigeminal nerve  
 Xn vagus nerve