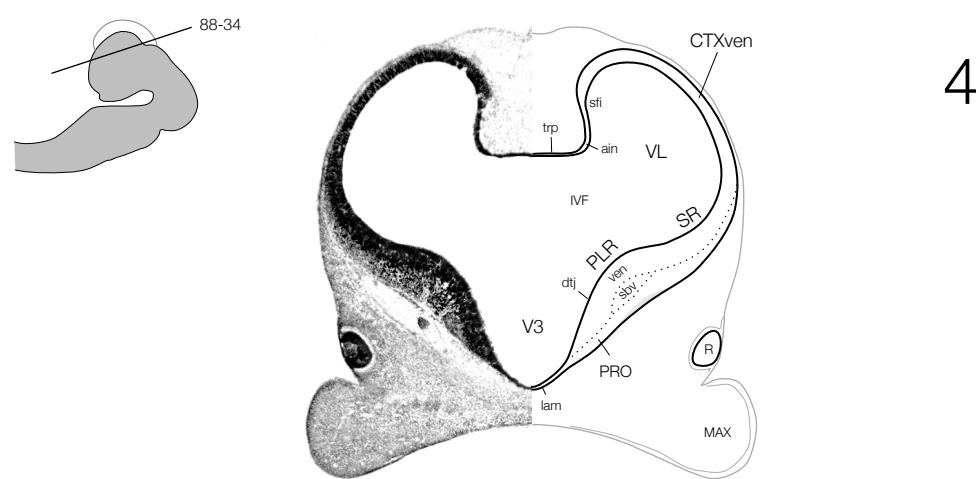
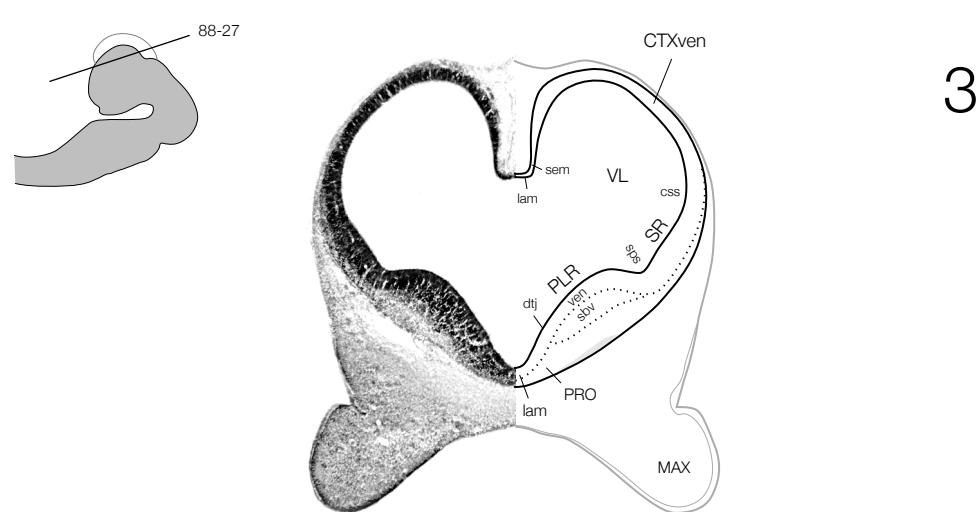
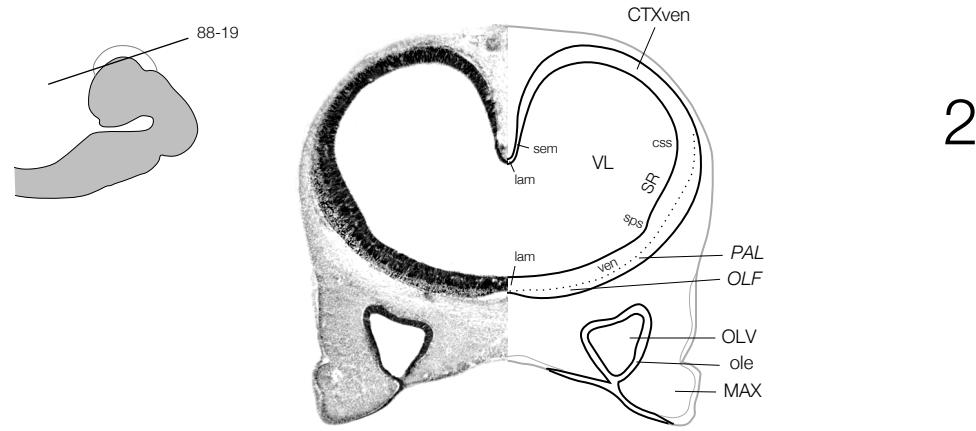
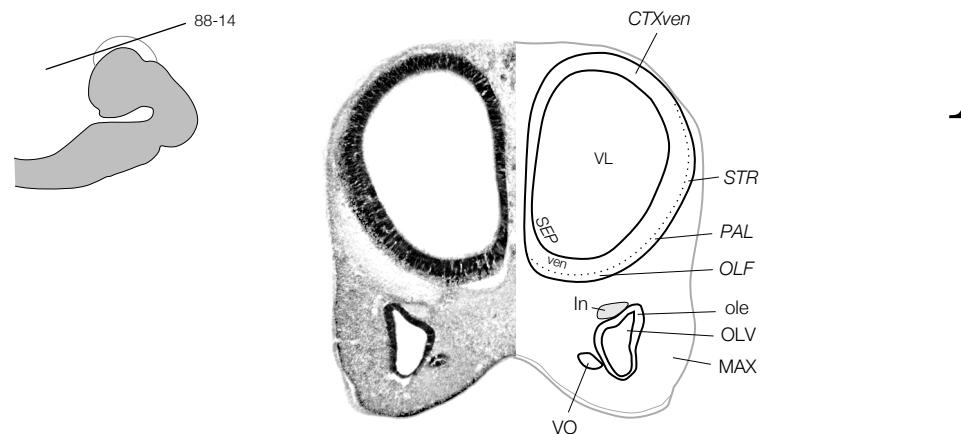


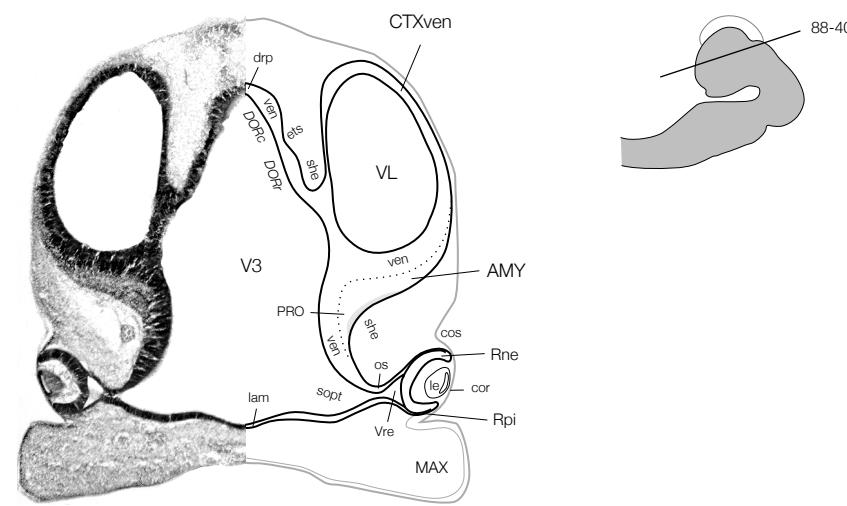
**E. Embryonic Day 12: *extensive mantle layer formation***

On e12 the brain mantle layer begins rapidly to grow, and the endbrain vesicle begins to evaginate. Relatively complete approximately horizontal and transverse series of sections have been chosen to illustrate this important age.

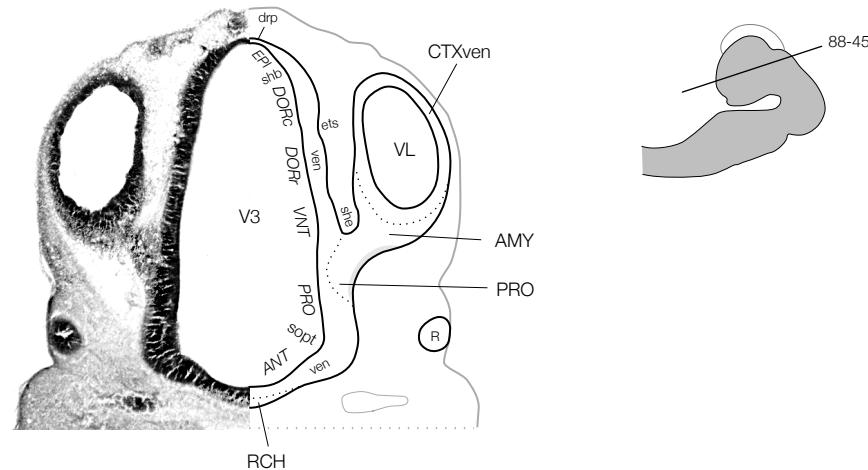


e12 horizontal

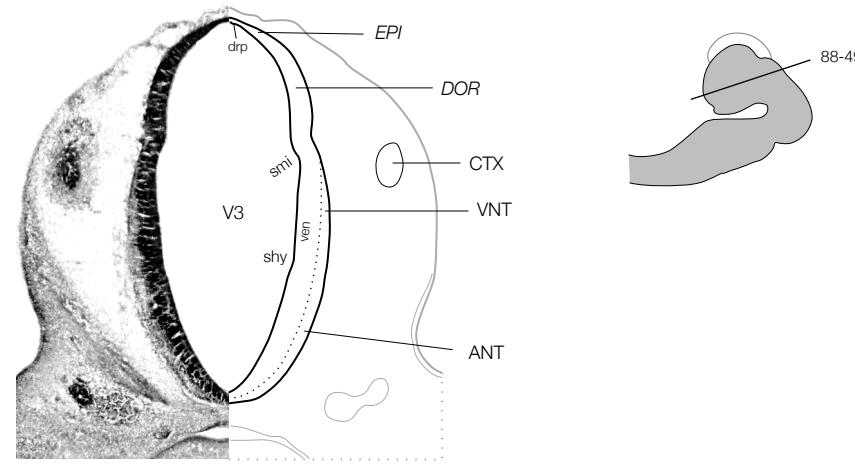
5



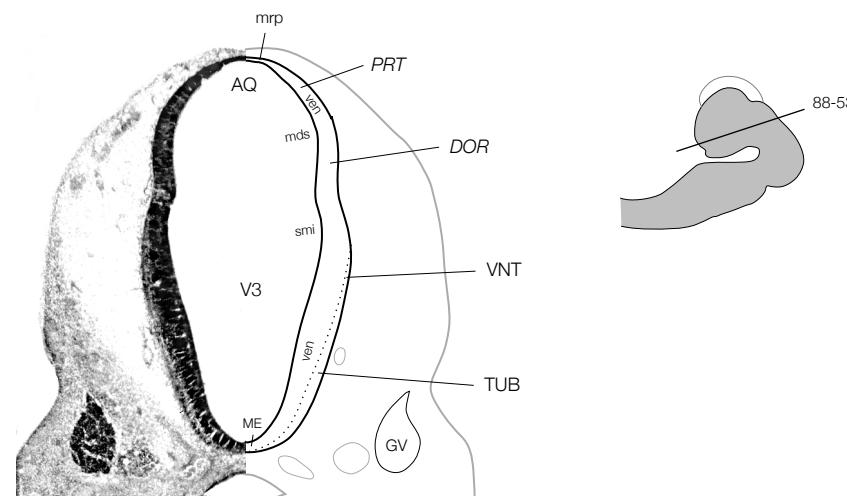
6



7



8

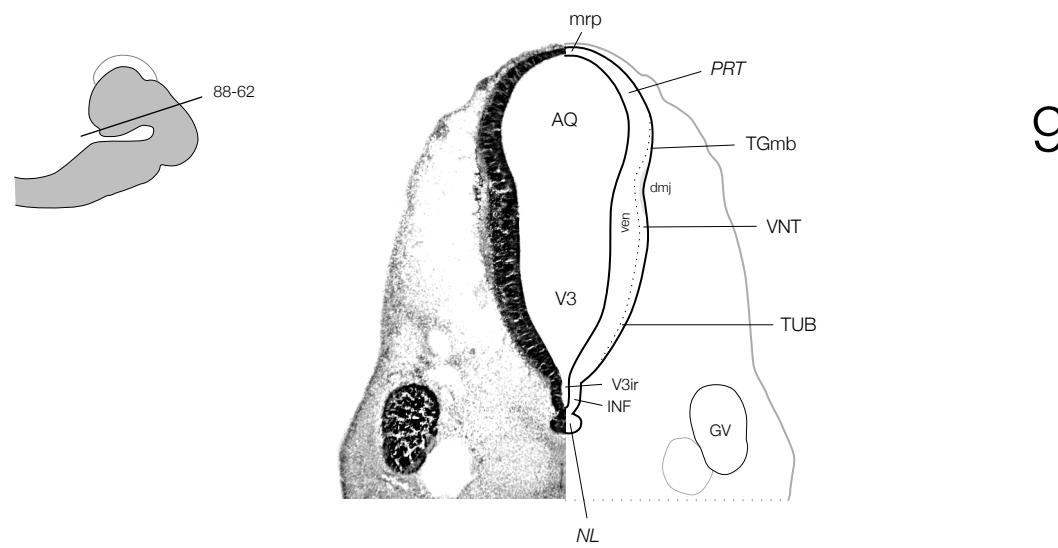


0.5 mm

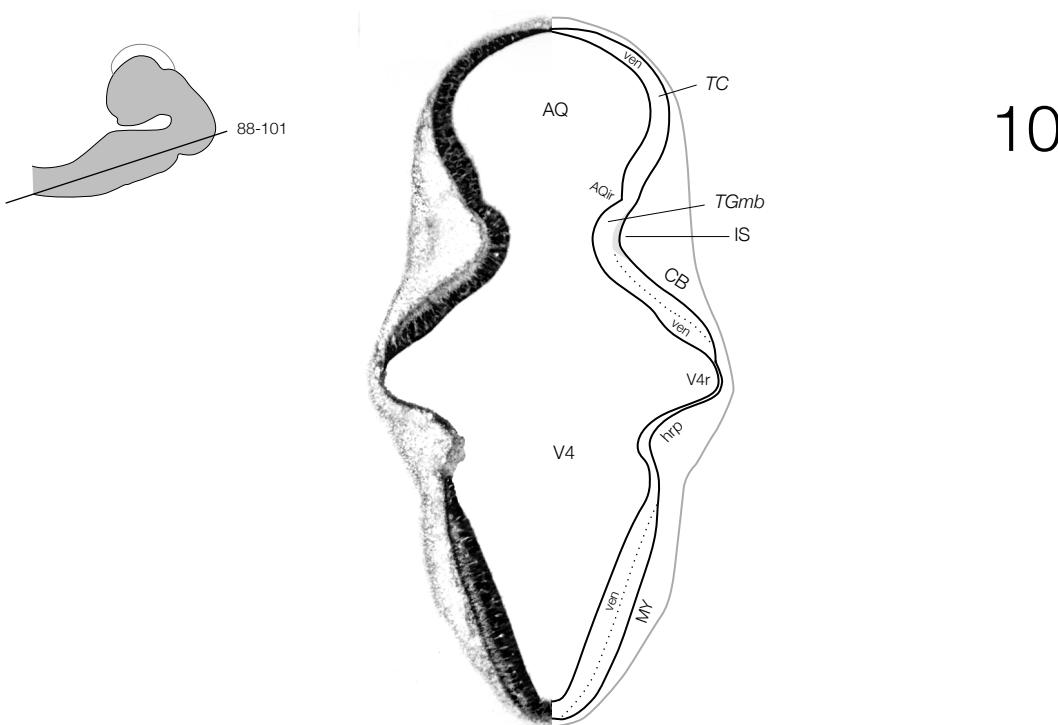
ain area intercalata  
AMY amygdala  
ANT anterior level, hypothalamus  
AQ cerebral aqueduct  
cor cornea  
cos conjunctival sac  
css corticostriate sulcus  
CTXven cerebral cortex, ventricular layer  
DOR dorsal thalamus  
DORc dorsal thalamus, caudodorsal part  
DORr dorsal thalamus, rostralventral part  
drp diencephalic roof plate  
dtj ditelencephalic junction  
EPI epithalamus  
ets external thalamic sulcus  
GV trigeminal ganglion  
In olfactory nerve  
IVF interventricular foramen  
lam lamina terminalis

le lens  
MAX maxillary process  
mds midbrain-diencephalic sulcus  
ME median eminence  
mrp midbrain roof plate  
ole olfactory epithelium  
OLF olfactory cortex  
OLV olfactory vesicle  
PAL pallidum  
PLR pallidal ridge  
PRO preoptic level, hypothalamus  
PRT pretectal region  
R retina  
RCH retrochiasmatic area  
Rne neural retina  
Rpi retina, pigmented layer  
sbv subventricular layer, neural tube  
sem septum ependymale

SEP septal region  
sf fimbrial sulcus  
shb habenular sulcus  
she hemispheric sulcus  
shy hypothalamic sulcus  
smi middle diencephalic sulcus  
sopt optic sulcus  
sps striatopallidal sulcus  
SR striatal ridge  
STR striatum  
trp telencephalic roof plate  
TUB tuberal level, hypothalamus  
V3 third ventricle  
ven ventricular layer, neural tube  
VL lateral ventricle  
VNT ventral thalamus  
VO vomeronasal organ  
Vre retinal ventricle



9



10

## e12 horizontal

0.5 mm

AQ cerebral aqueduct  
AQir cerebral aqueduct, isthmial recess  
CB cerebellum  
chp choroid plexus  
dmj dimesencephalic junction  
GV trigeminal ganglion  
hrp hindbrain roof plate  
INF infundibulum  
IS isthmus  
mrp midbrain roof plate  
MB midbrain  
MY medulla  
NL pituitary gland, neural lobe  
PRT prepectal region  
TC tectum  
TGmb tegmentum, midbrain  
TUB tuberal level, hypothalamus  
V3 third ventricle  
V3ir third ventricle, infundibular recess

V4 fourth ventricle  
V4r fourth ventricle, lateral recess  
ven ventricular layer, neural tube  
VNT ventral thalamus