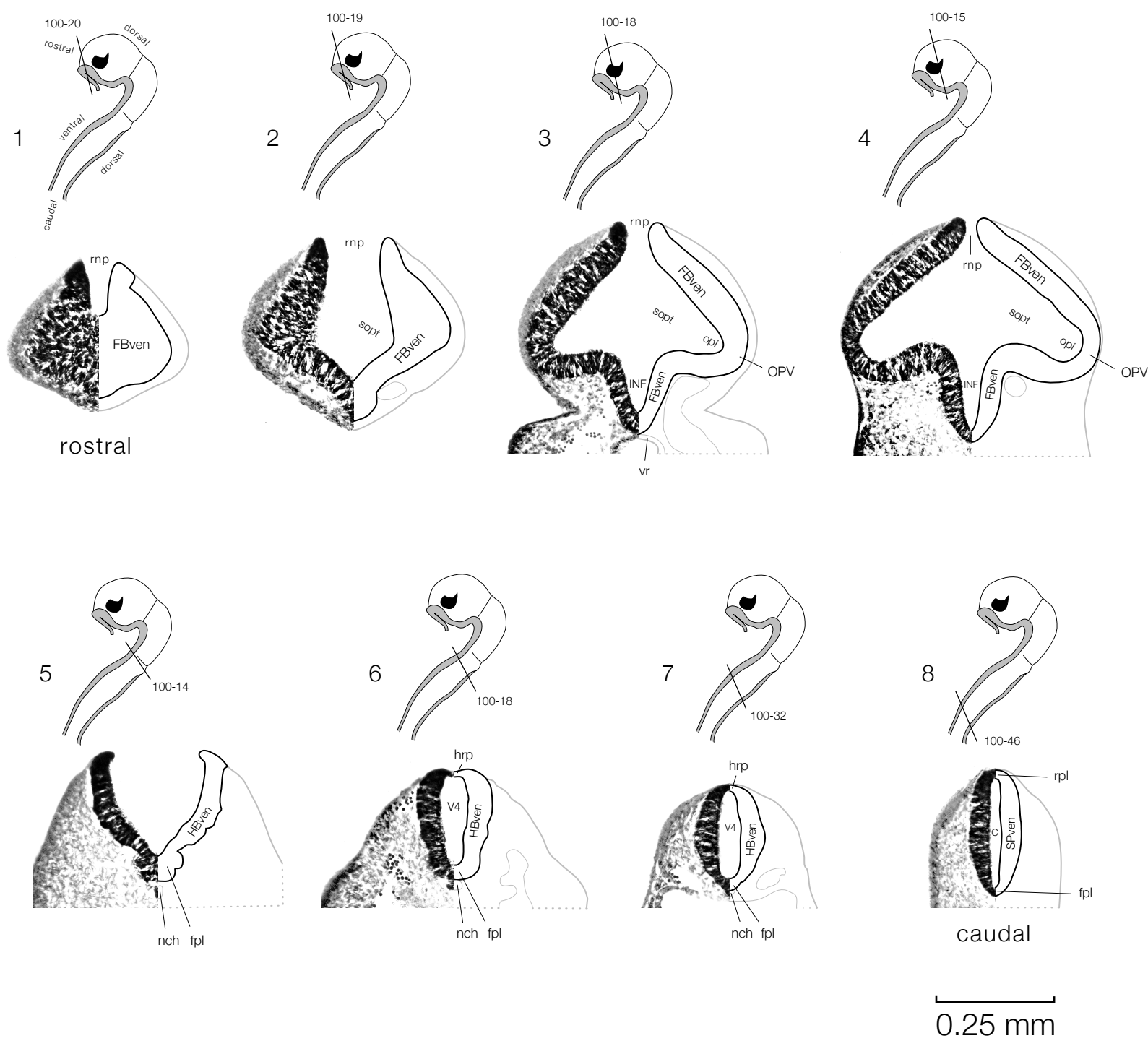


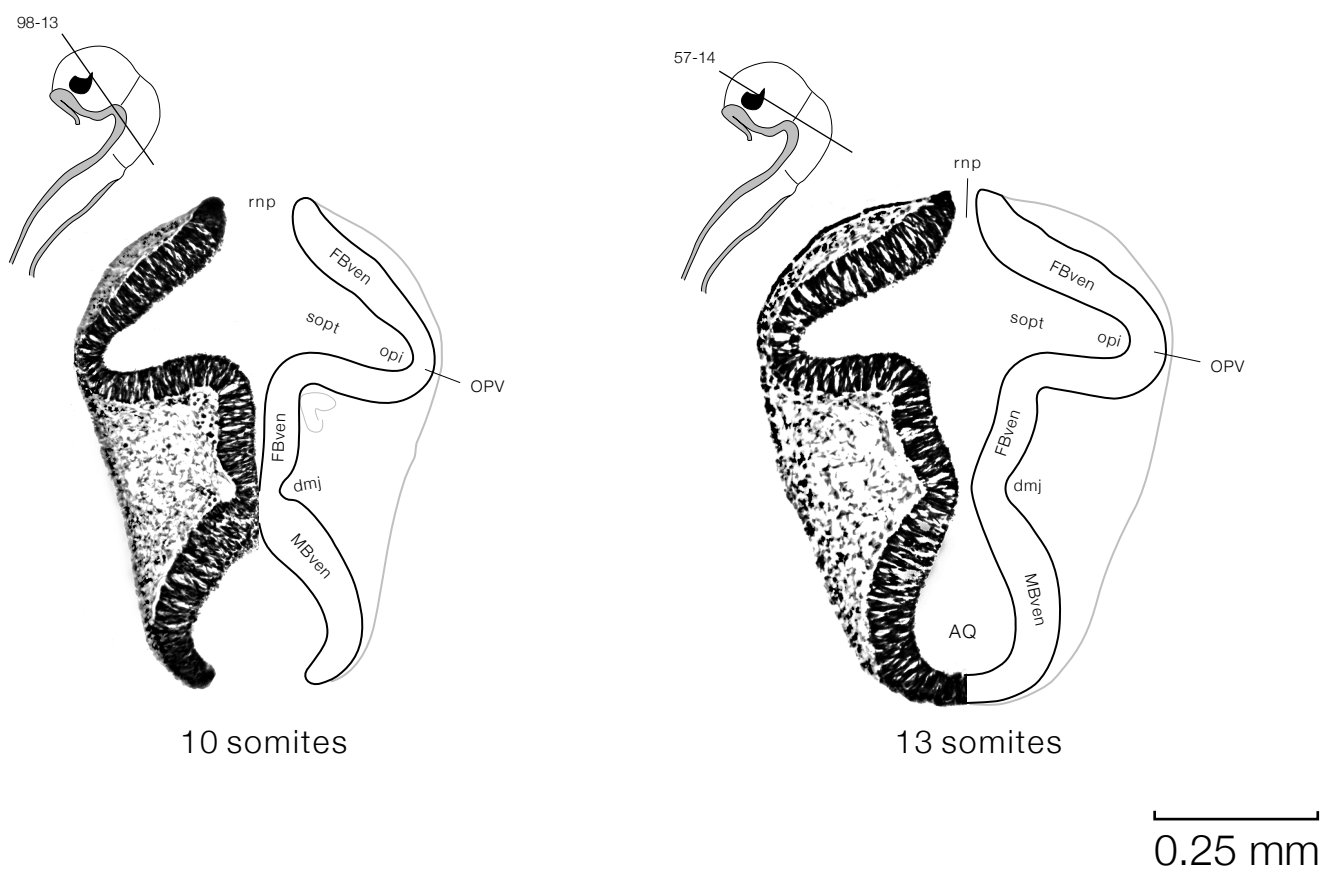
C. Embryonic Day 10: *the 3 primary brain vesicles*

During the course of e10 the lateral edges of the neural plate fuse dorsally to form the neural tube, with its three primary brain vesicles. Three series of sections for this age are presented. Two series are from early on e10, at a time when the hindbrain roof plate has formed, but the lateral edges of the presumptive forebrain neural plate have not yet fused (10-13 somite stage). One of these series consists of 8 approximately transverse sections from a single embryo, and the other series consists of two approximately horizontal sections from embryos of slightly different ages (10 and 13 somites). The third series consists of approximately transverse sections through two embryos where the rostral neuropore had closed, and thus the forebrain vesicle was present. No mantle layer is present at this stage of development.

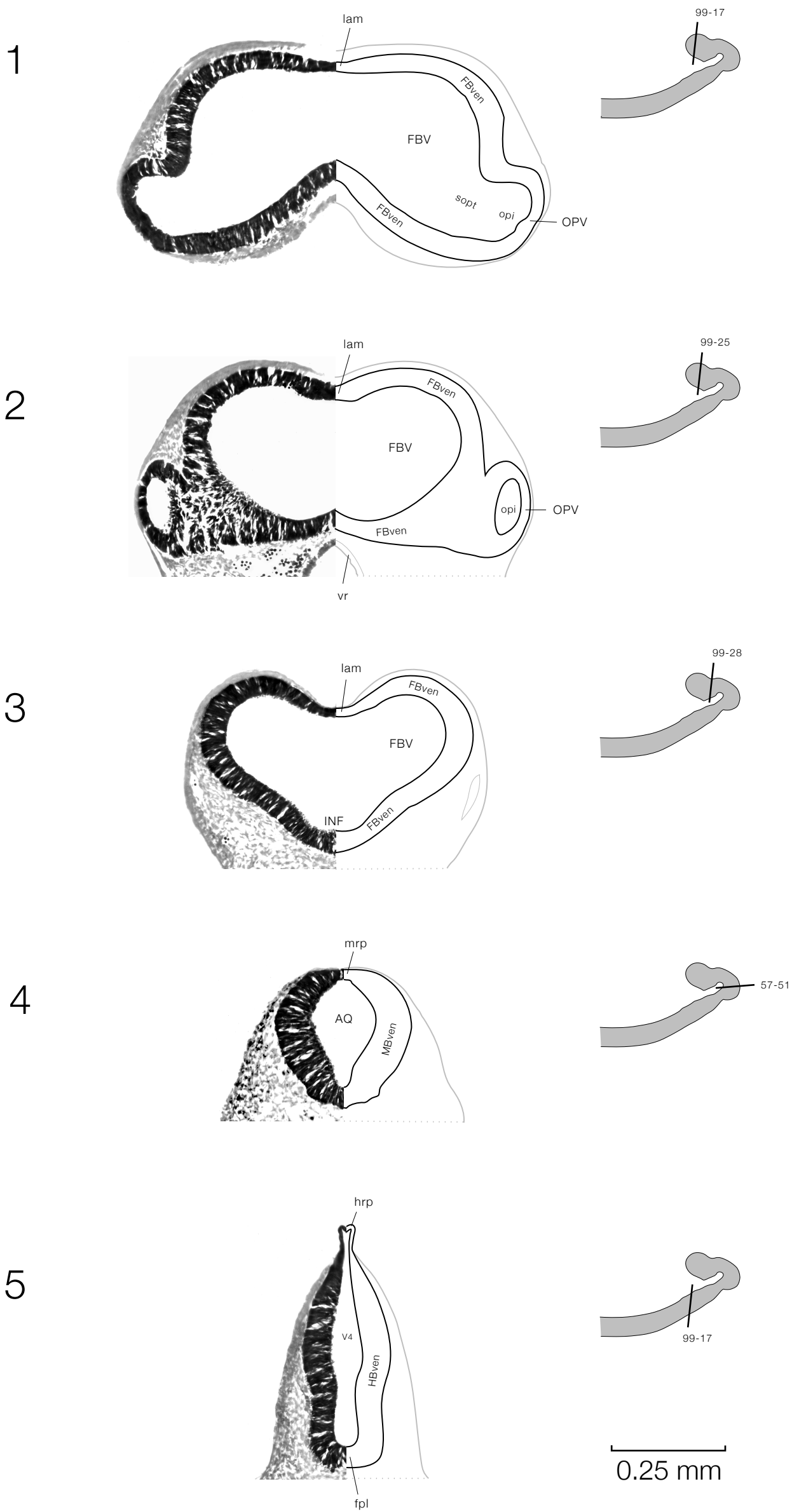
approximately transverse



approximately horizontal (longitudinal)



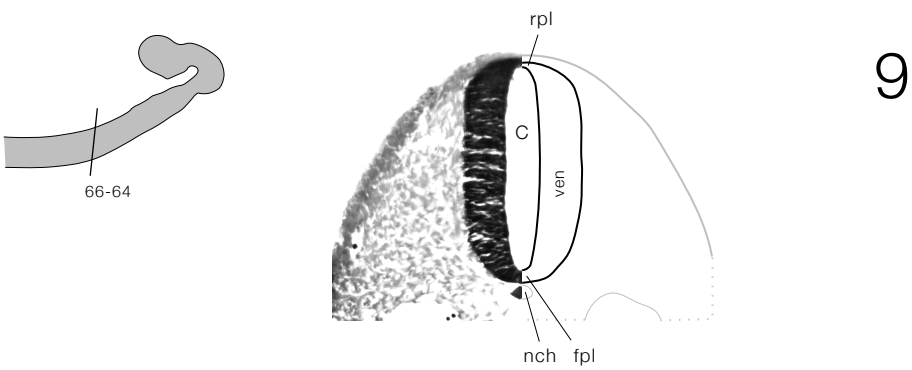
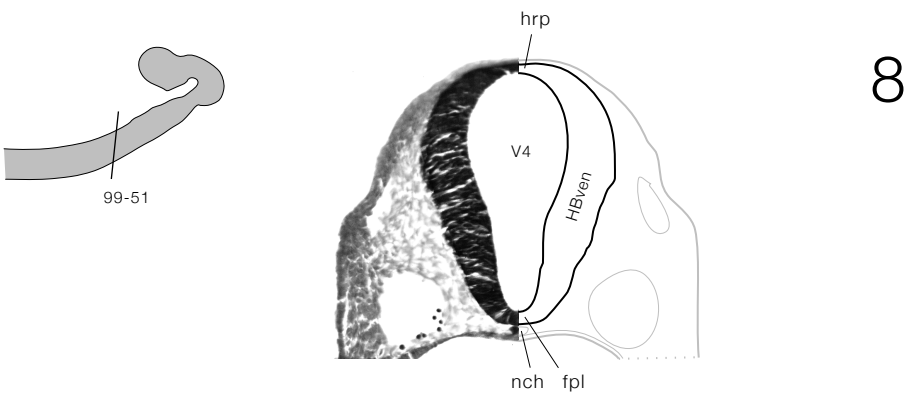
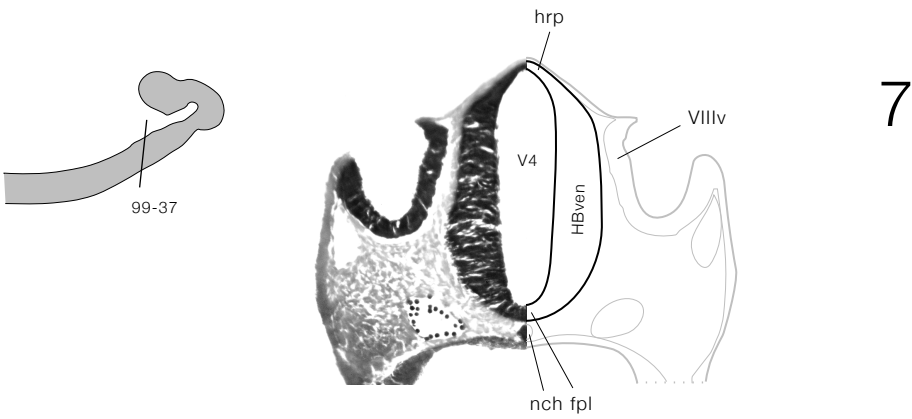
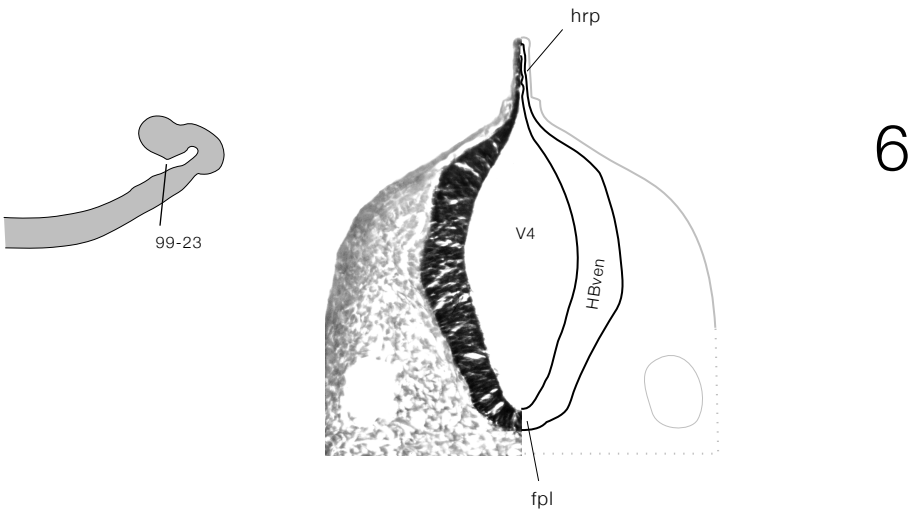
Early e10 (10 somites, hindbrain roof plate fused)



Later e10 transverse (neuropores closed)

AQ cerebral aqueduct
C central canal
dmj dimesencephalic junction
FBV forebrain vesicle
FBven forebrain, ventricular layer
fpl floor plate
HBven hindbrain, ventricular layer
hrp hindbrain roof plate
INF infundibulum
lam lamina terminalis
MBven midbrain, ventricular layer
mrp midbrain roof plate
nch notochord
opi optic pit
OPV optic vesicle
mp rostral neuropore
rpl roof plate (spinal cord)
sopt optic sulcus
SPven spinal cord, ventricular layer

V4 fourth ventricle
vr



Later e10 transverse (cont.)

0.25 mm

- C central canal, spinal cord/medulla
- fpl floor plate
- HBven hindbrain, ventricular layer
- hrp hindbrain roof plate
- nch notochord
- rpl roof plate
- V4 fourth ventricle
- VIIIv otic vesicle
- ven ventricular layer, neural tube