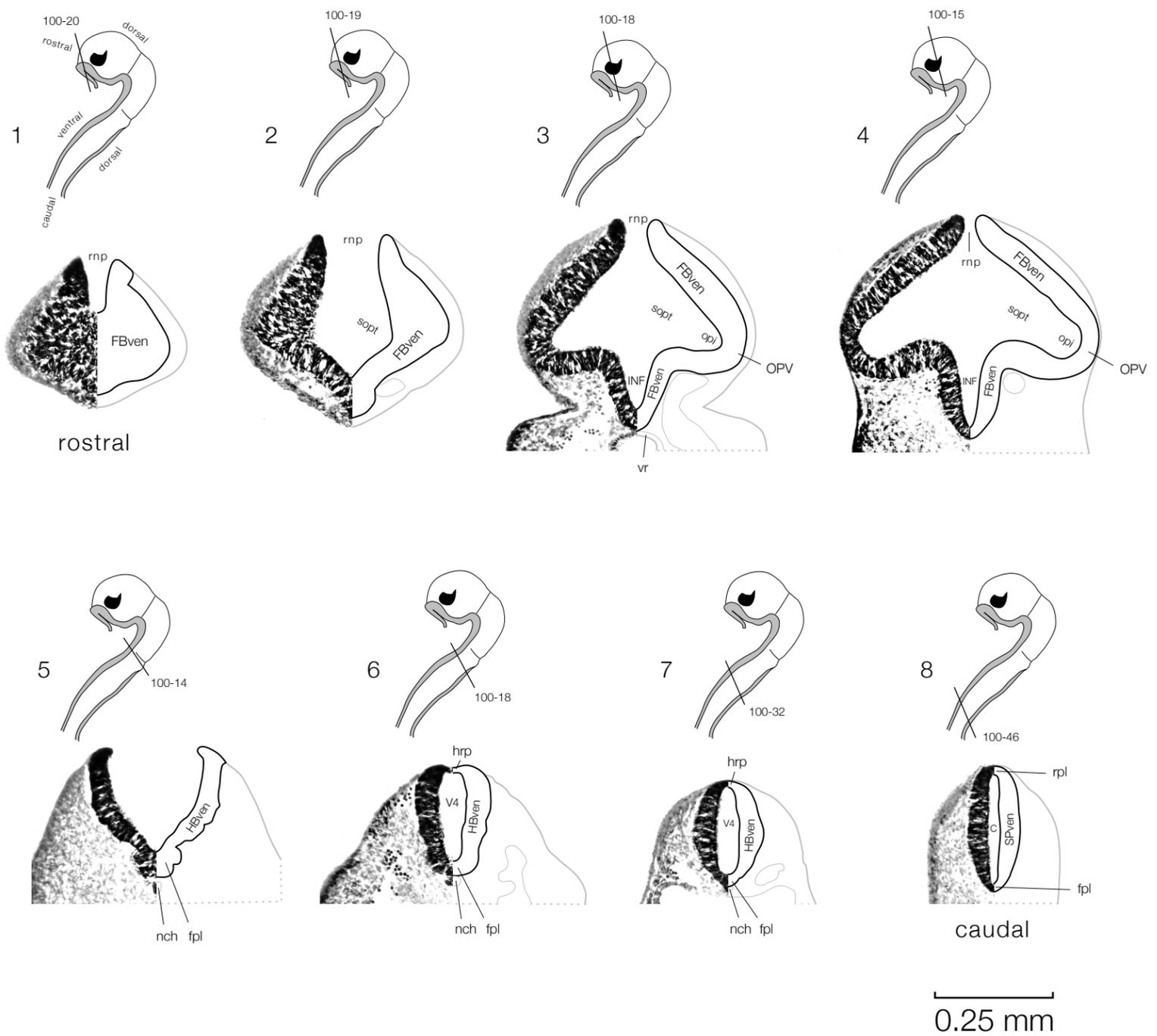


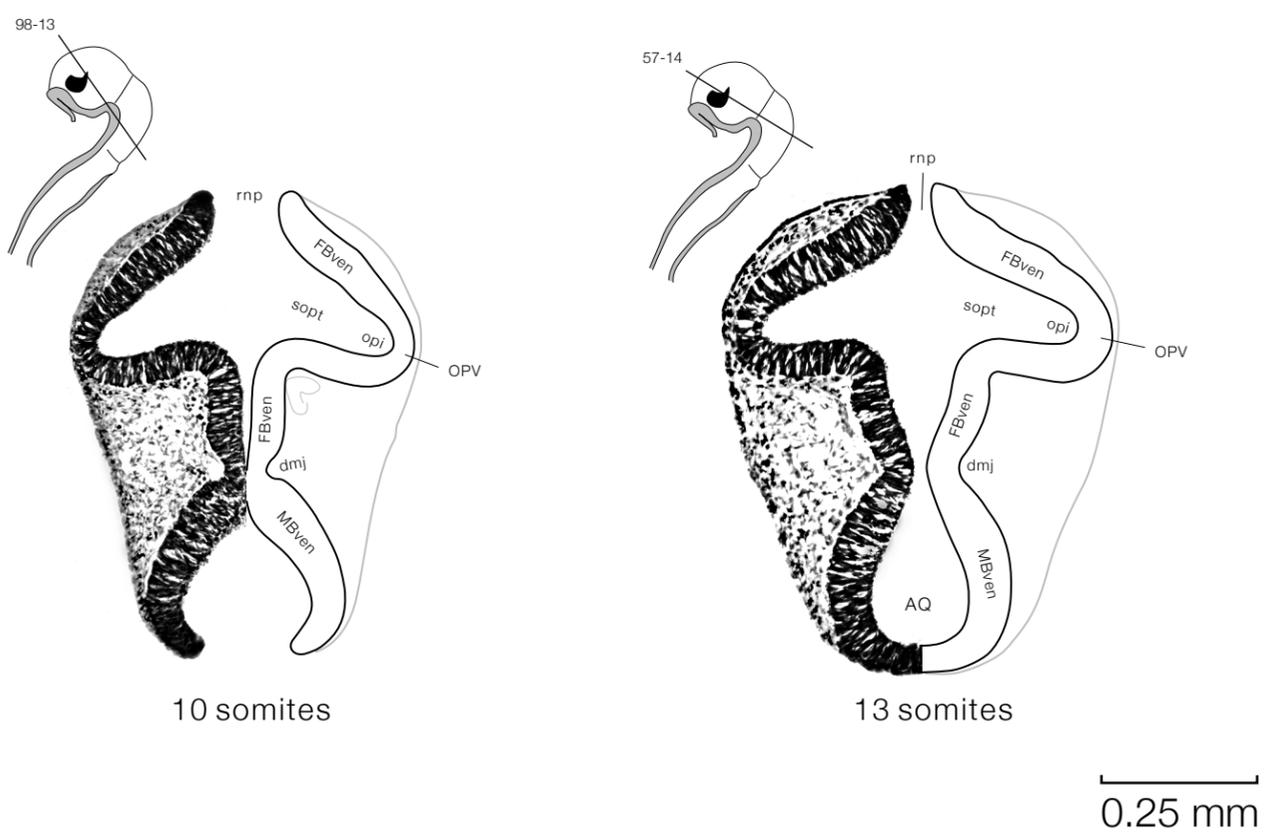
C. Embryonic Day 10: *the 3 primary brain vesicles*

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.

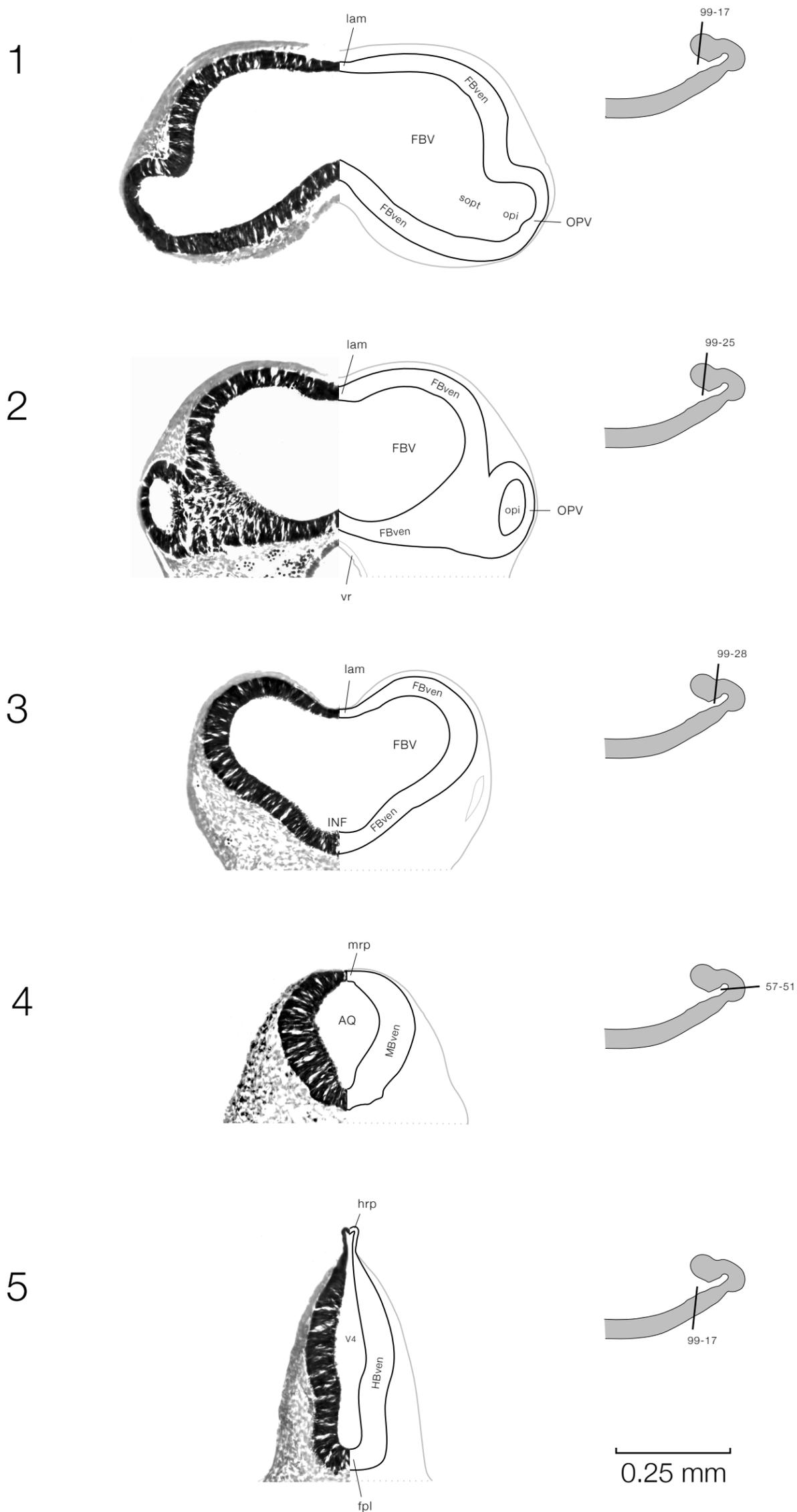
approximately transverse



approximately horizontal (longitudinal)



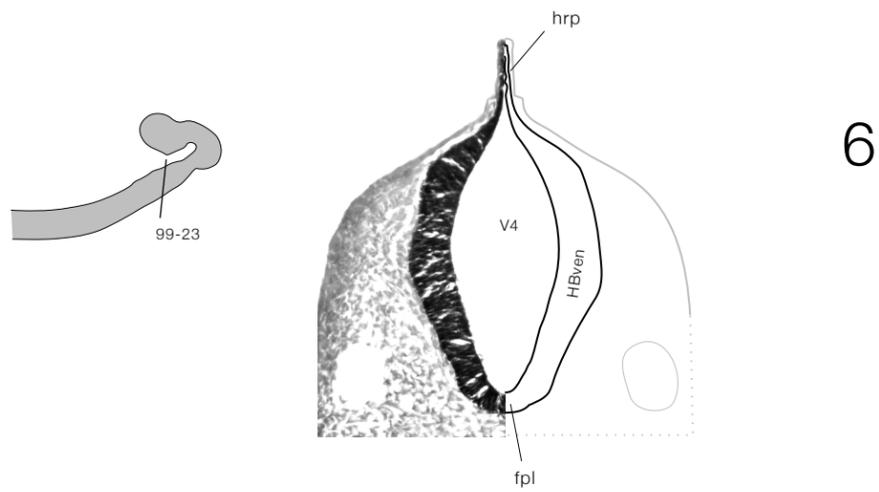
Early e10 (10 somites, hindbrain roof plate fused)



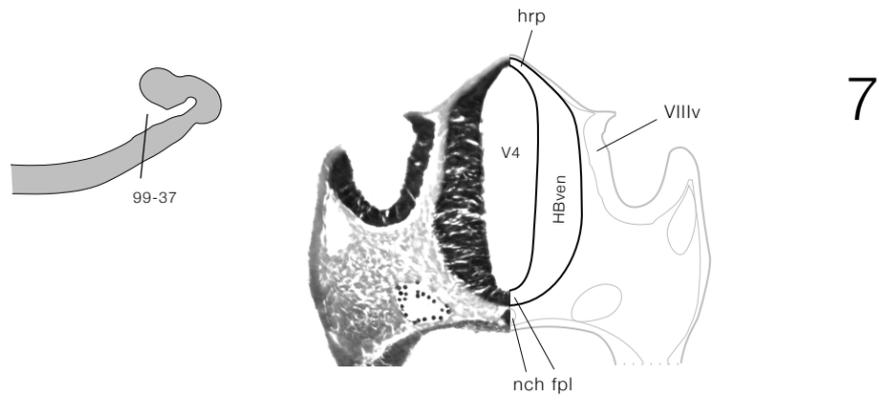
Later e10 transverse (neuropores closed)

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

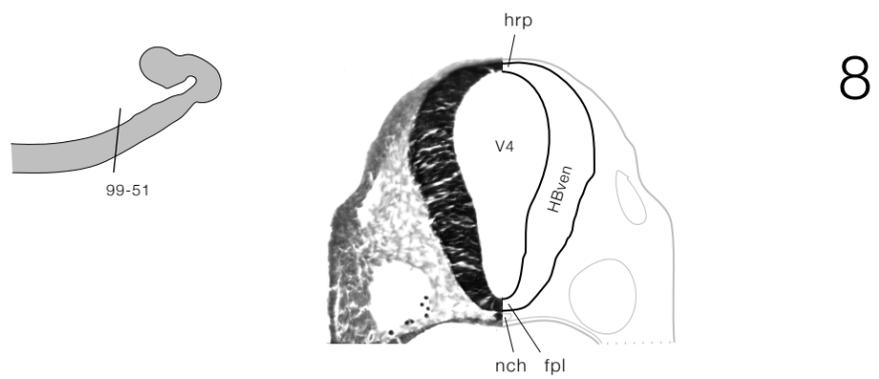
V4 fourth ventricle
 vr



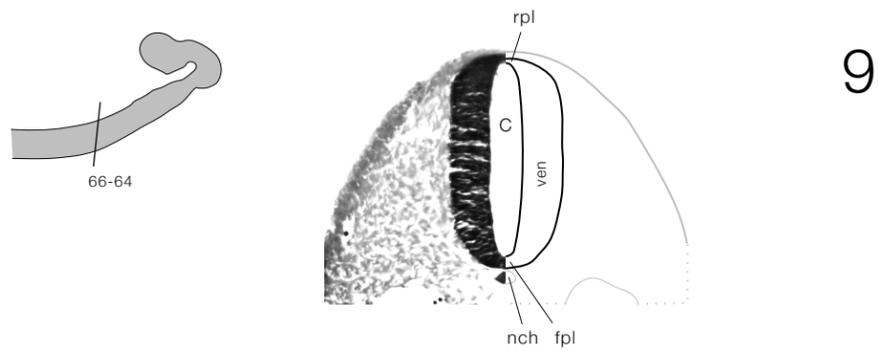
6



7



8



9

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