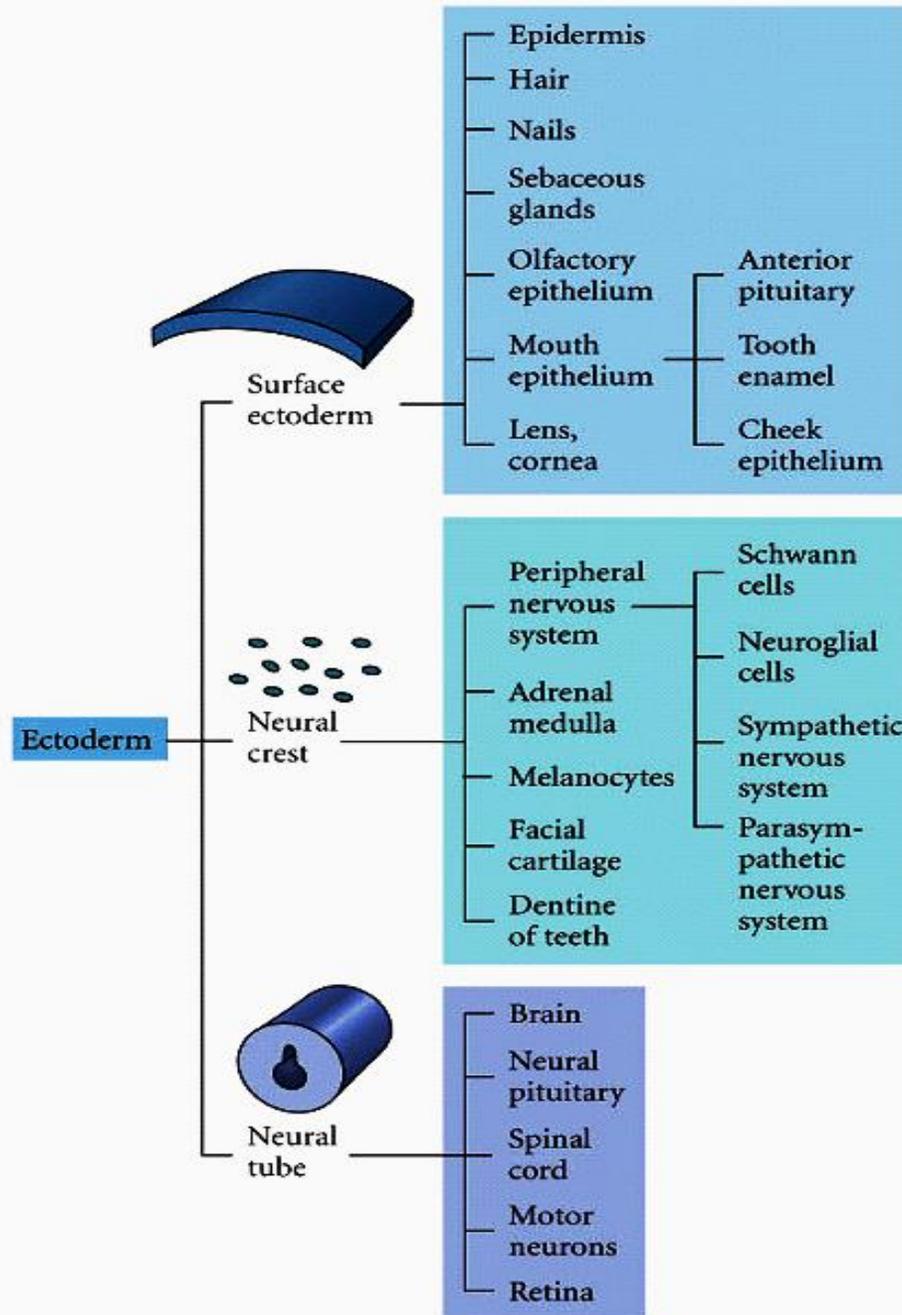
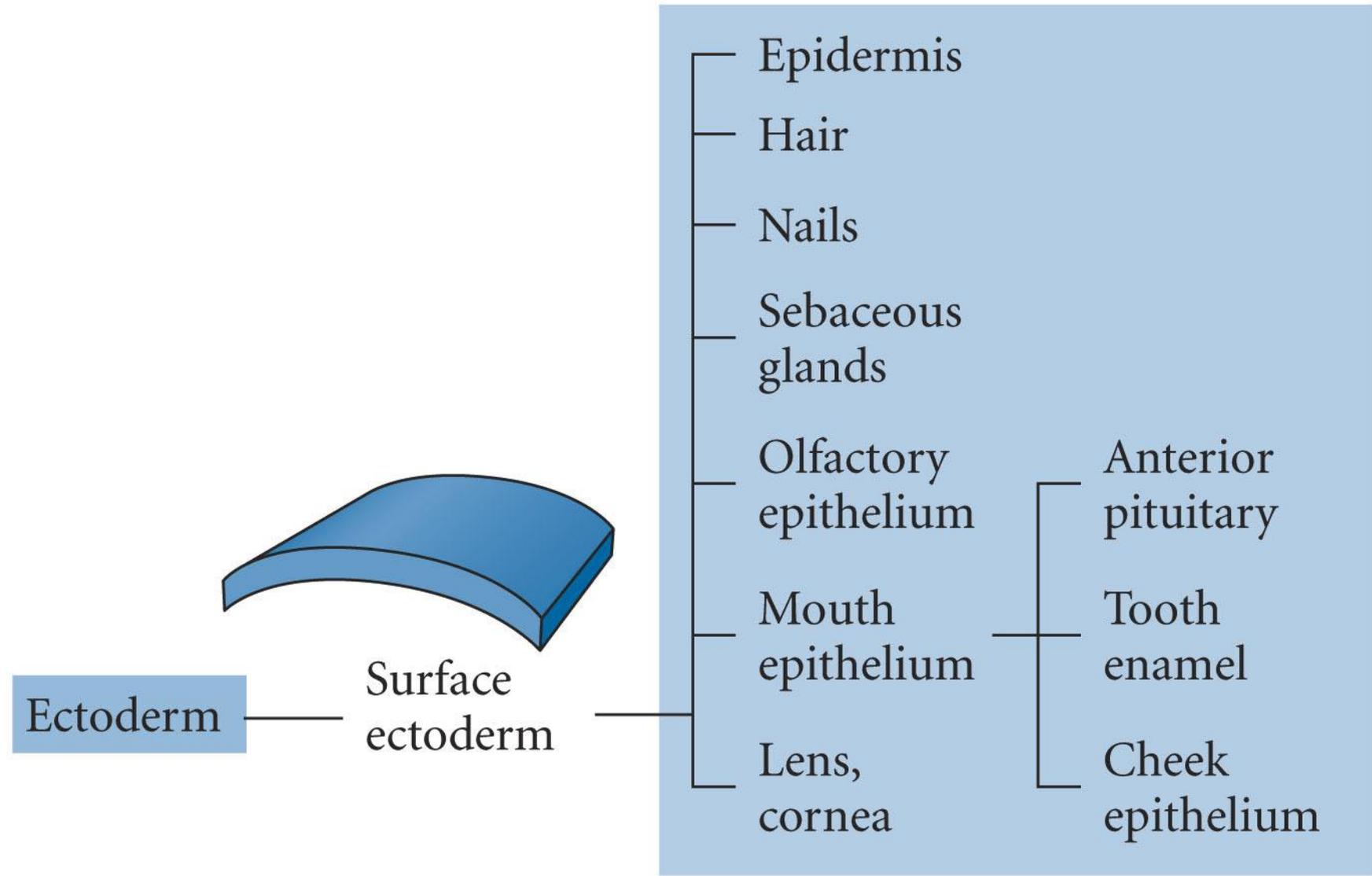
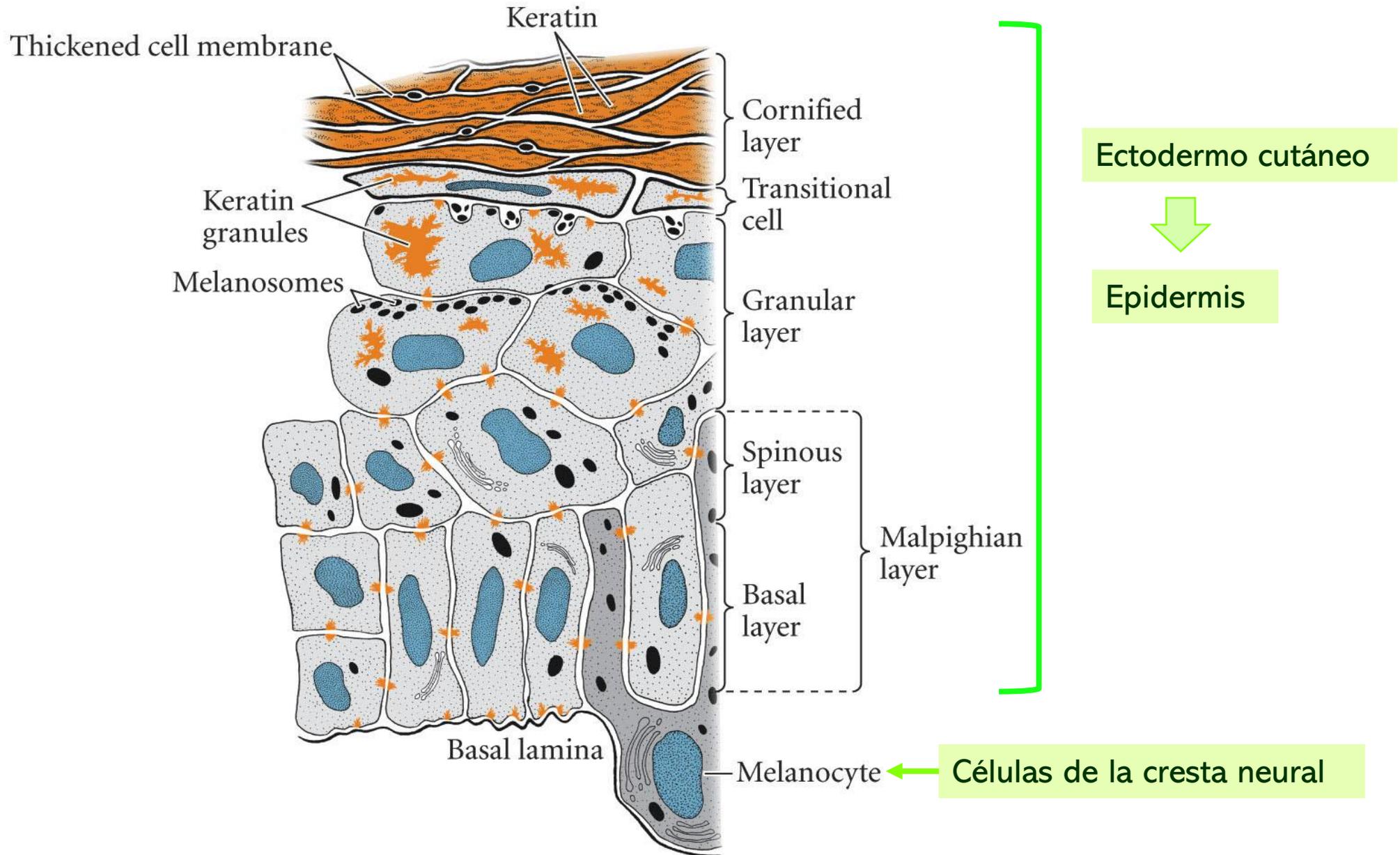


Neurulación

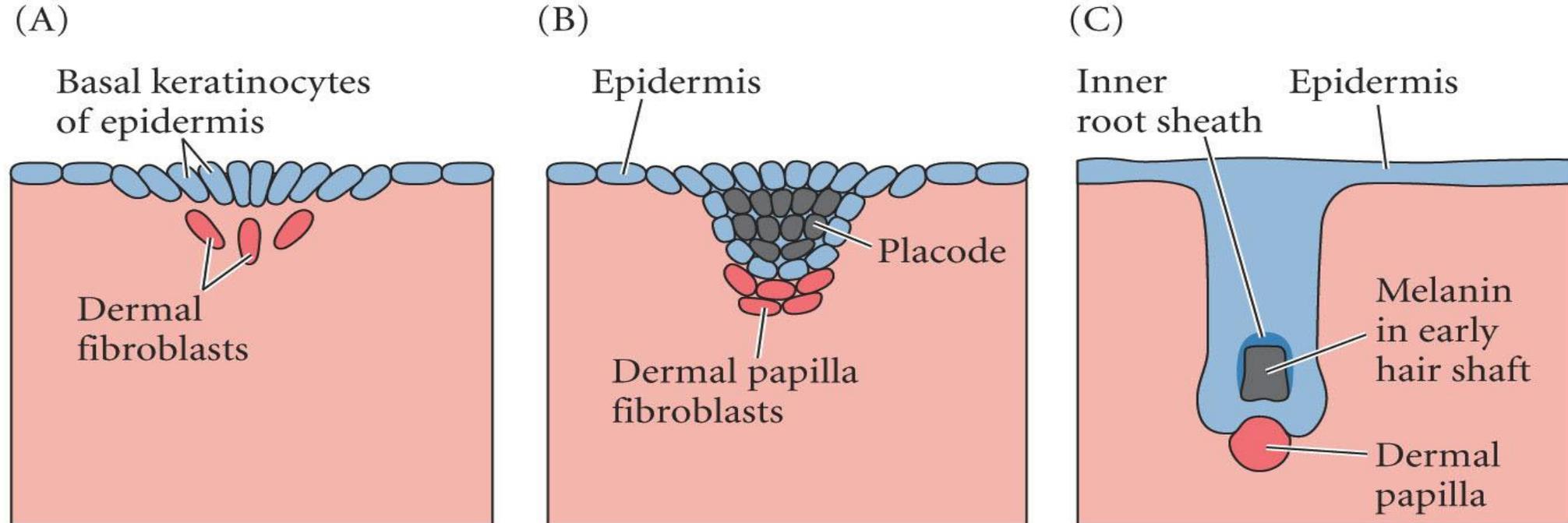




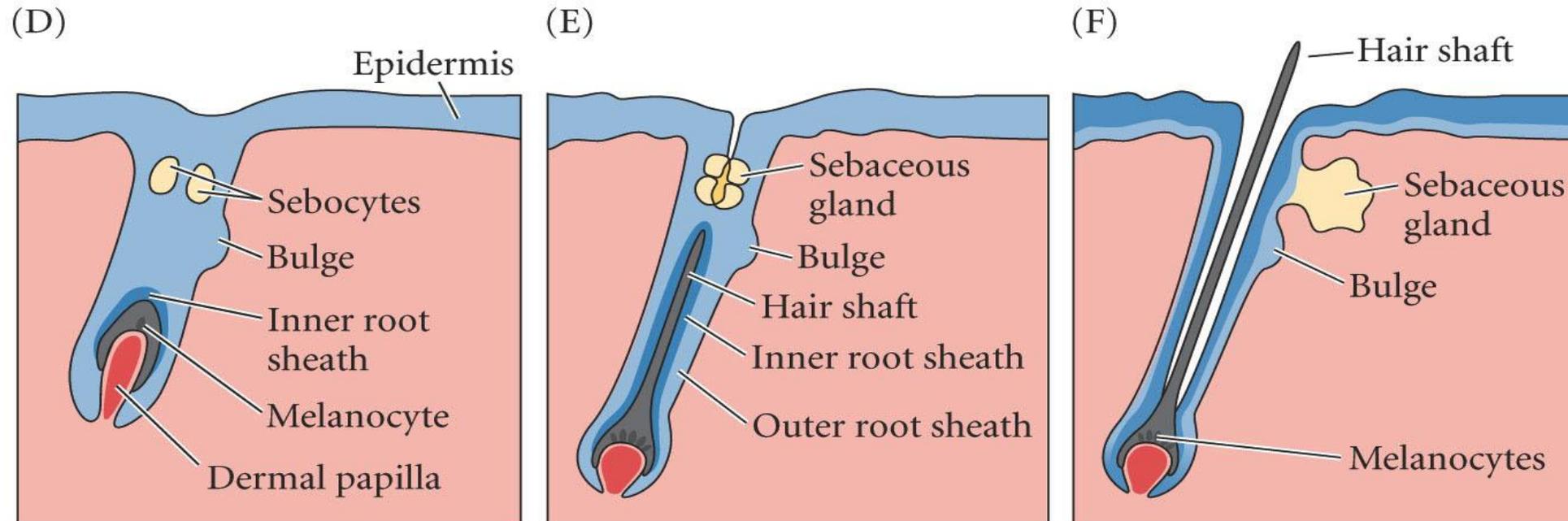




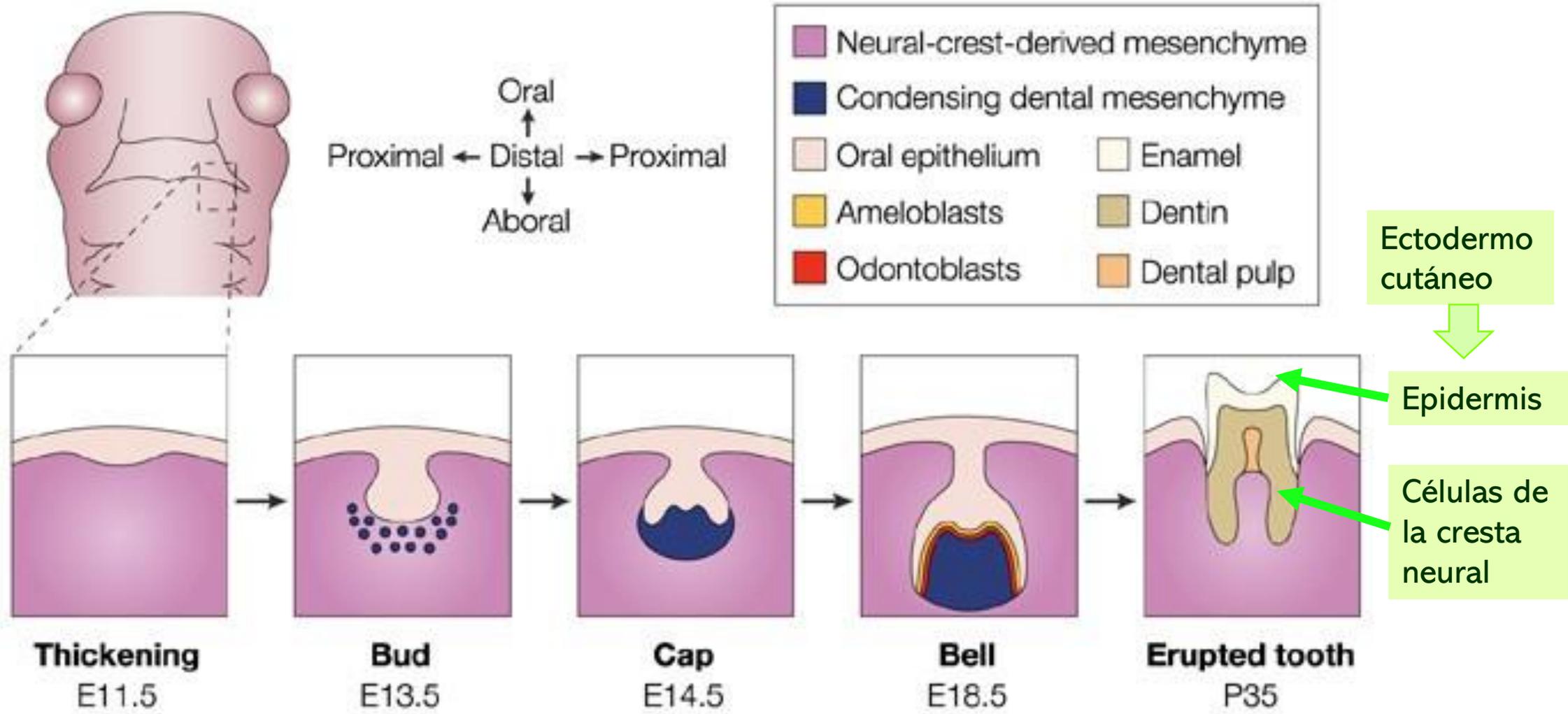
Formación del folículo piloso y las glándulas asociadas

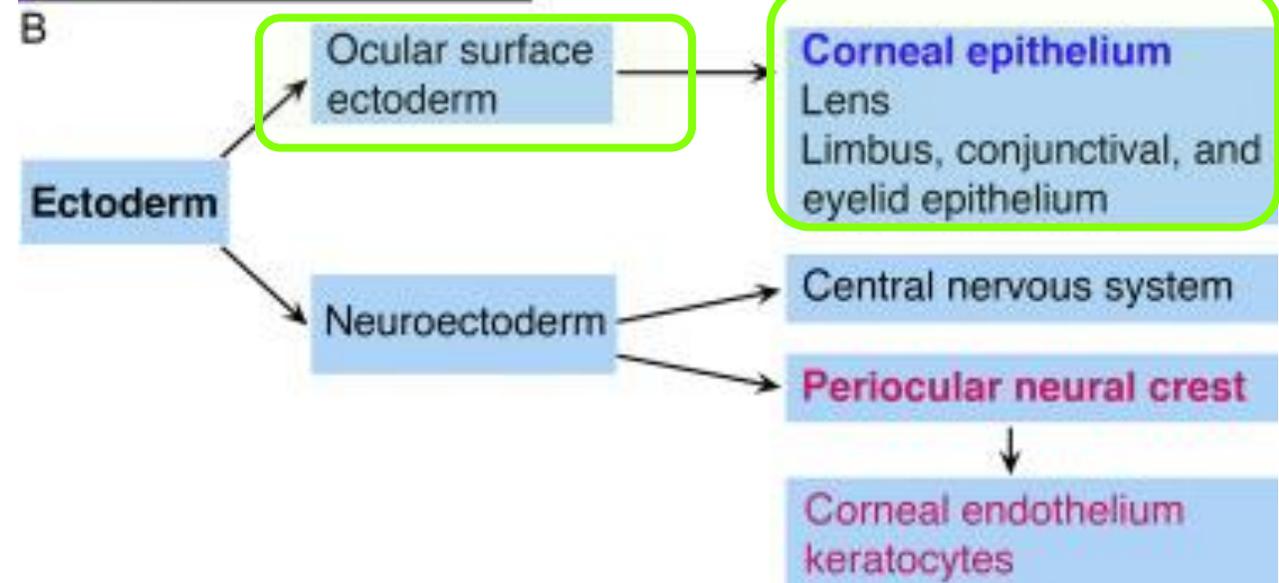
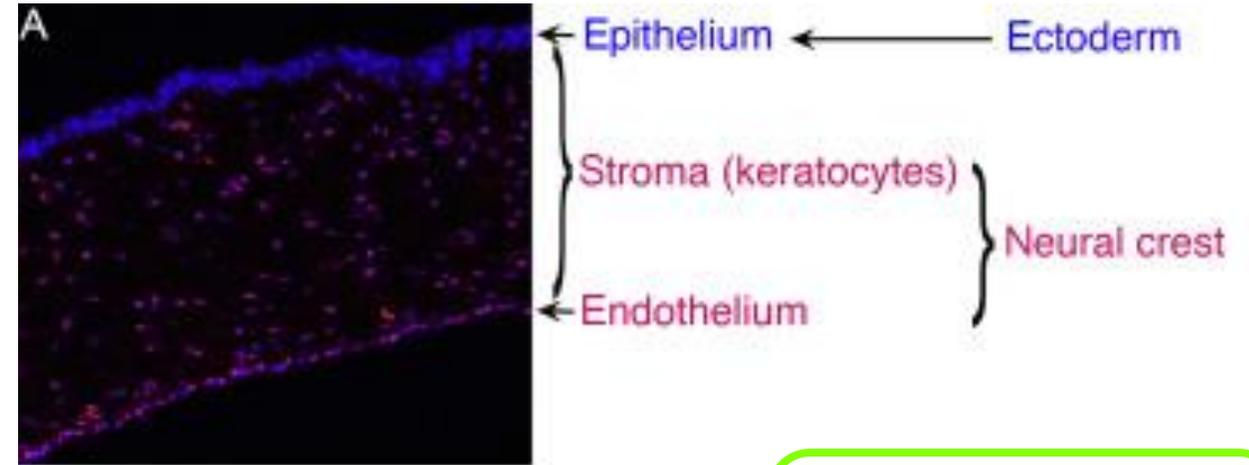
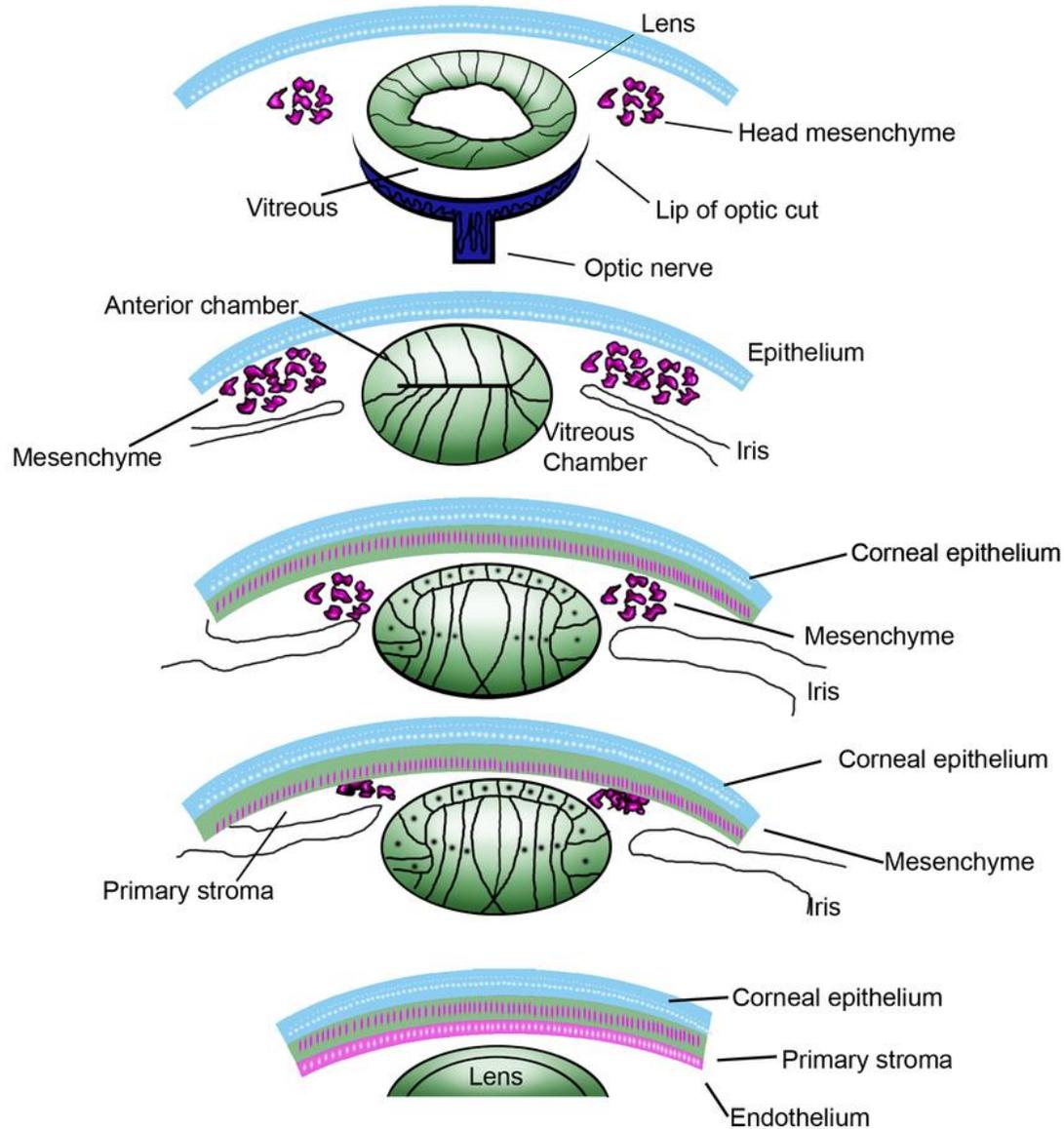


Formación del folículo piloso y las glándulas asociadas



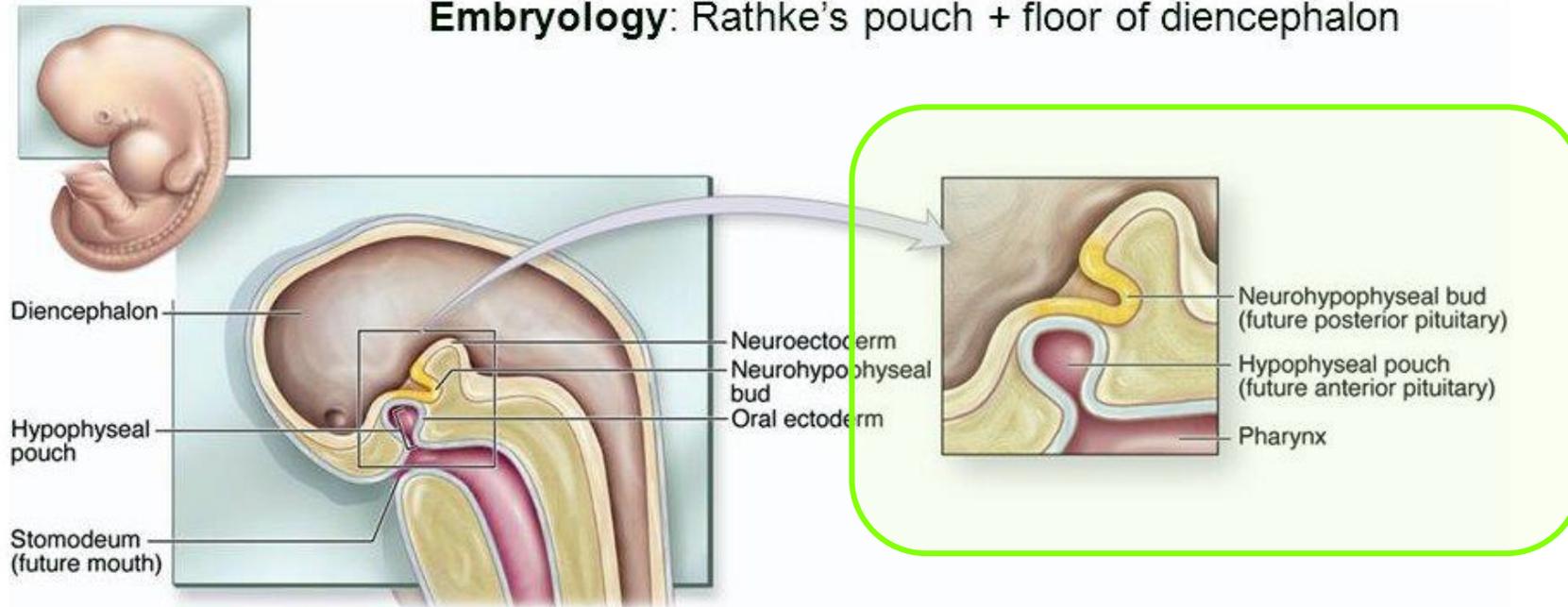
Formación de los dientes



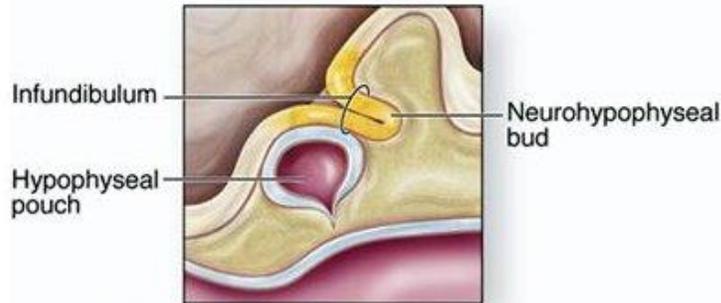


Formación de la adenohipófisis

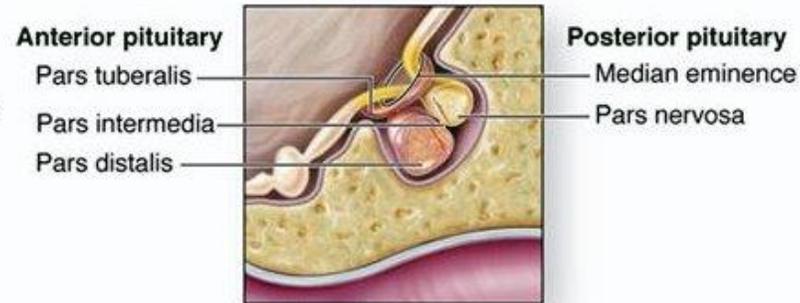
Embryology: Rathke's pouch + floor of diencephalon



a Week 3: Hypophyseal pouch and neurohypophyseal bud form.



b Late second month: Hypophyseal pouch loses contact with roof of pharynx.

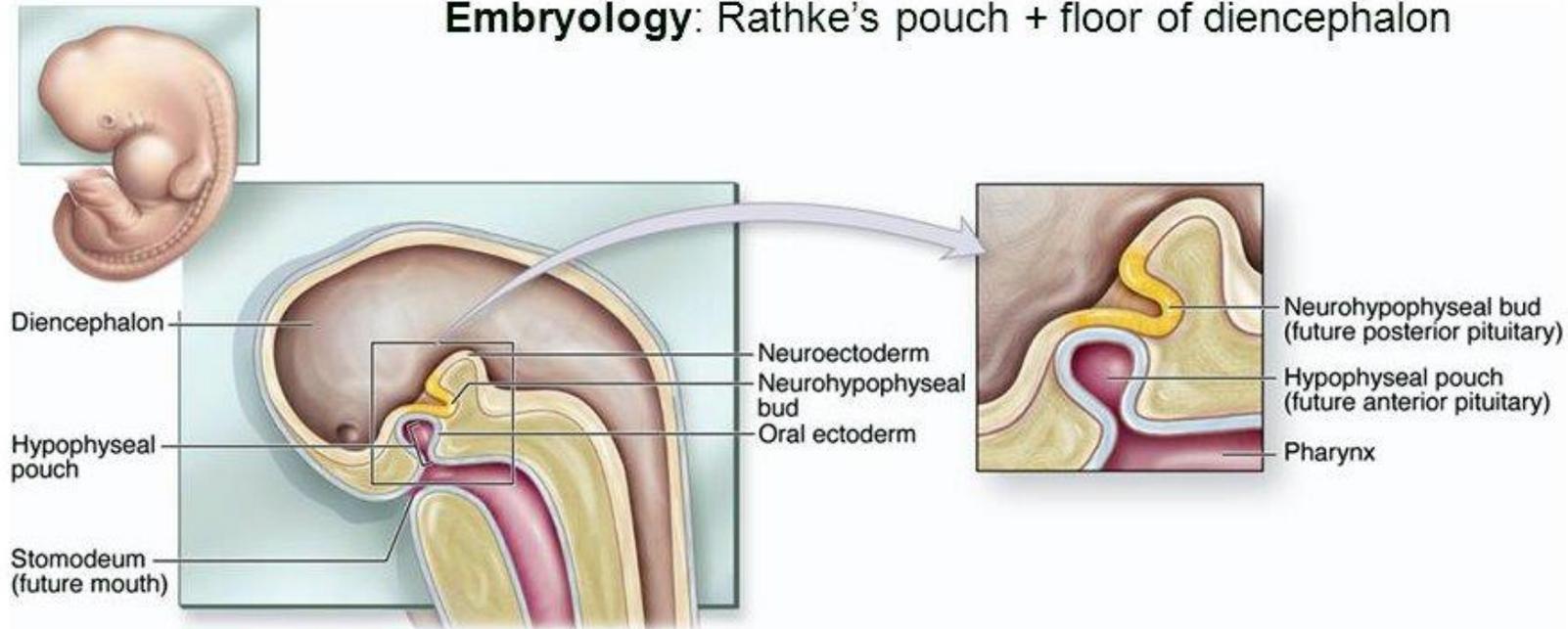


c Fetal period: Anterior and posterior pituitary have formed.

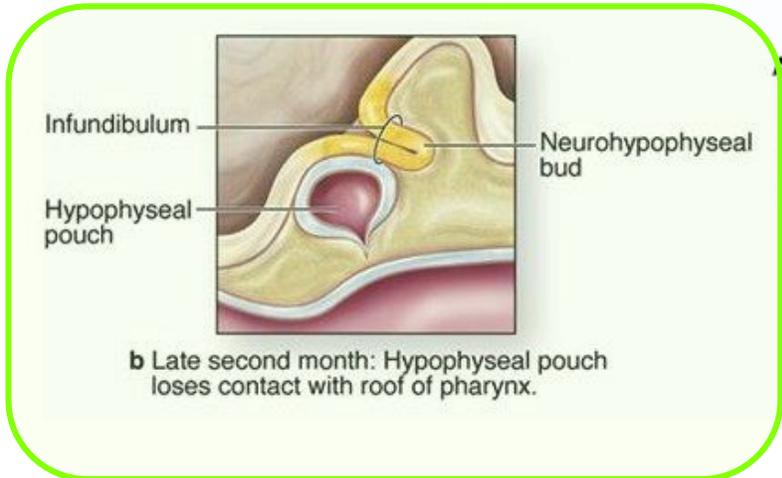


Formación de la adenohipófisis

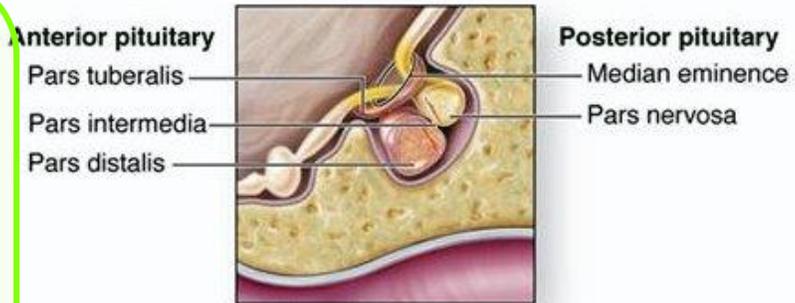
Embryology: Rathke's pouch + floor of diencephalon



a Week 3: Hypophyseal pouch and neurohypophyseal bud form.



b Late second month: Hypophyseal pouch loses contact with roof of pharynx.

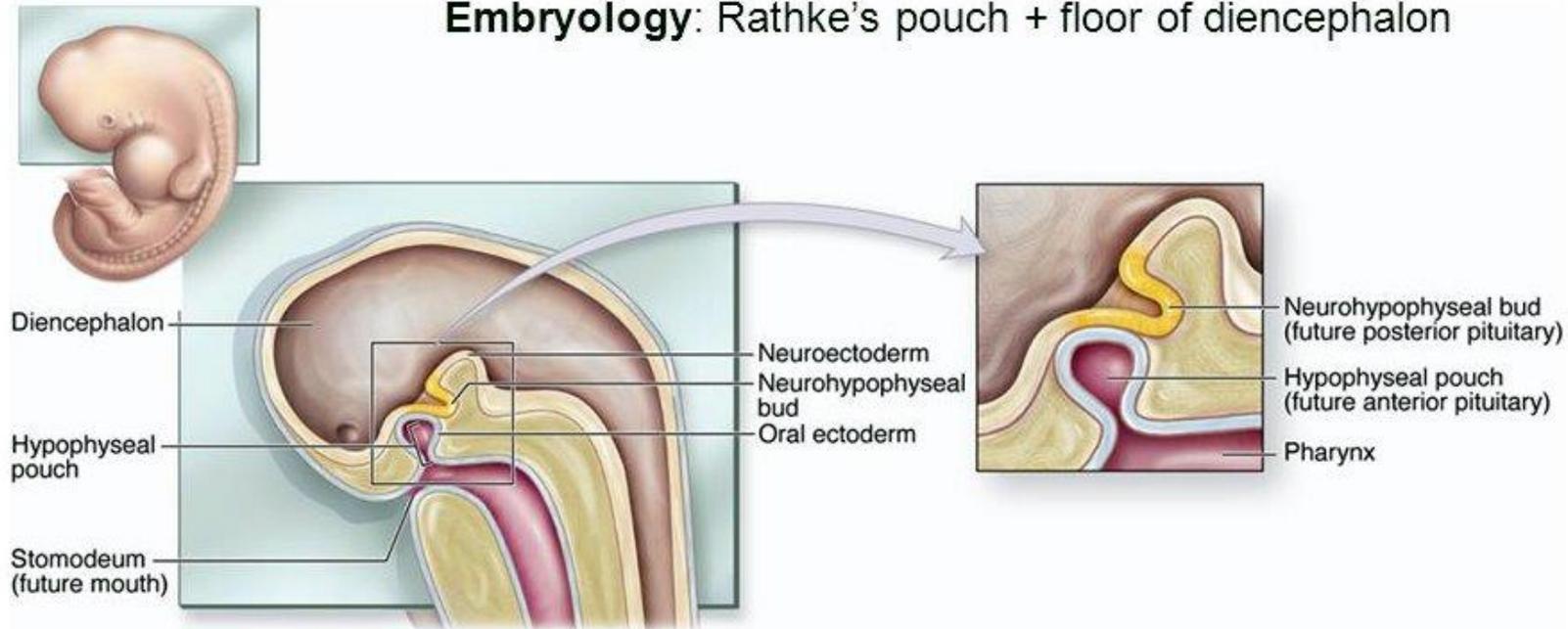


c Fetal period: Anterior and posterior pituitary have formed.

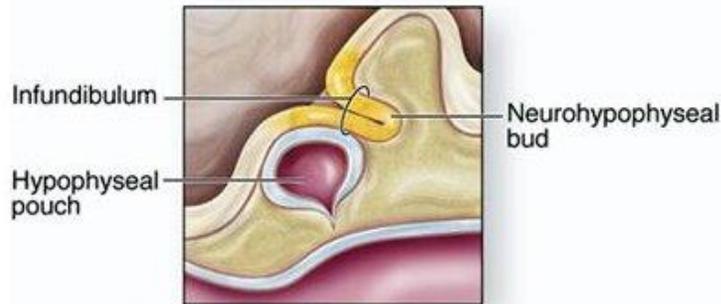


Formación de la adenohipófisis

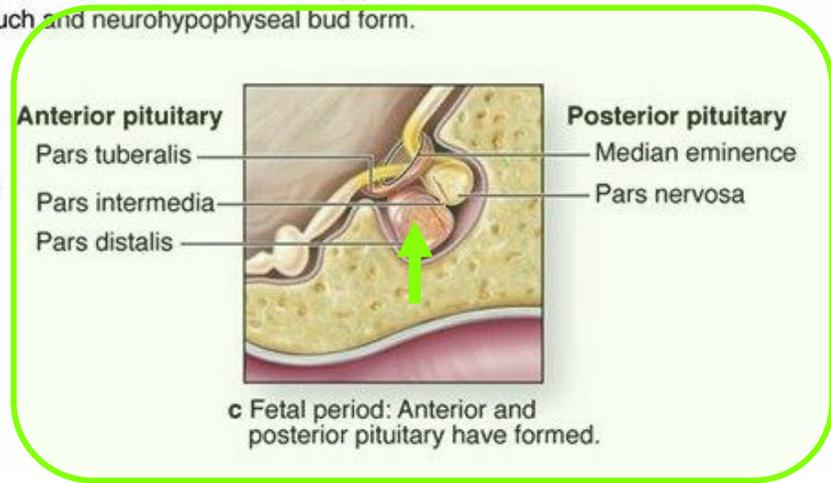
Embryology: Rathke's pouch + floor of diencephalon



a Week 3: Hypophyseal pouch and neurohypophyseal bud form.

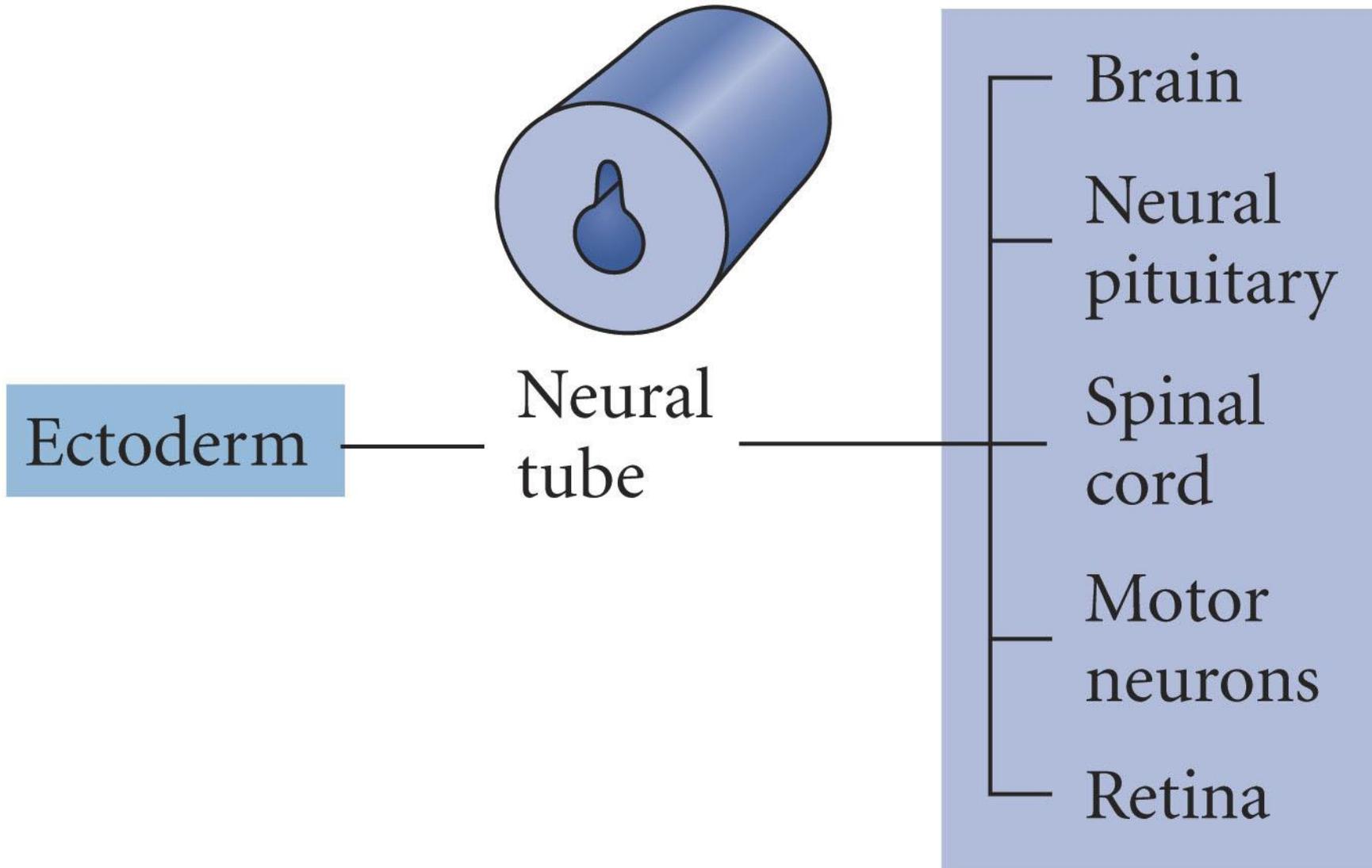


b Late second month: Hypophyseal pouch loses contact with roof of pharynx.



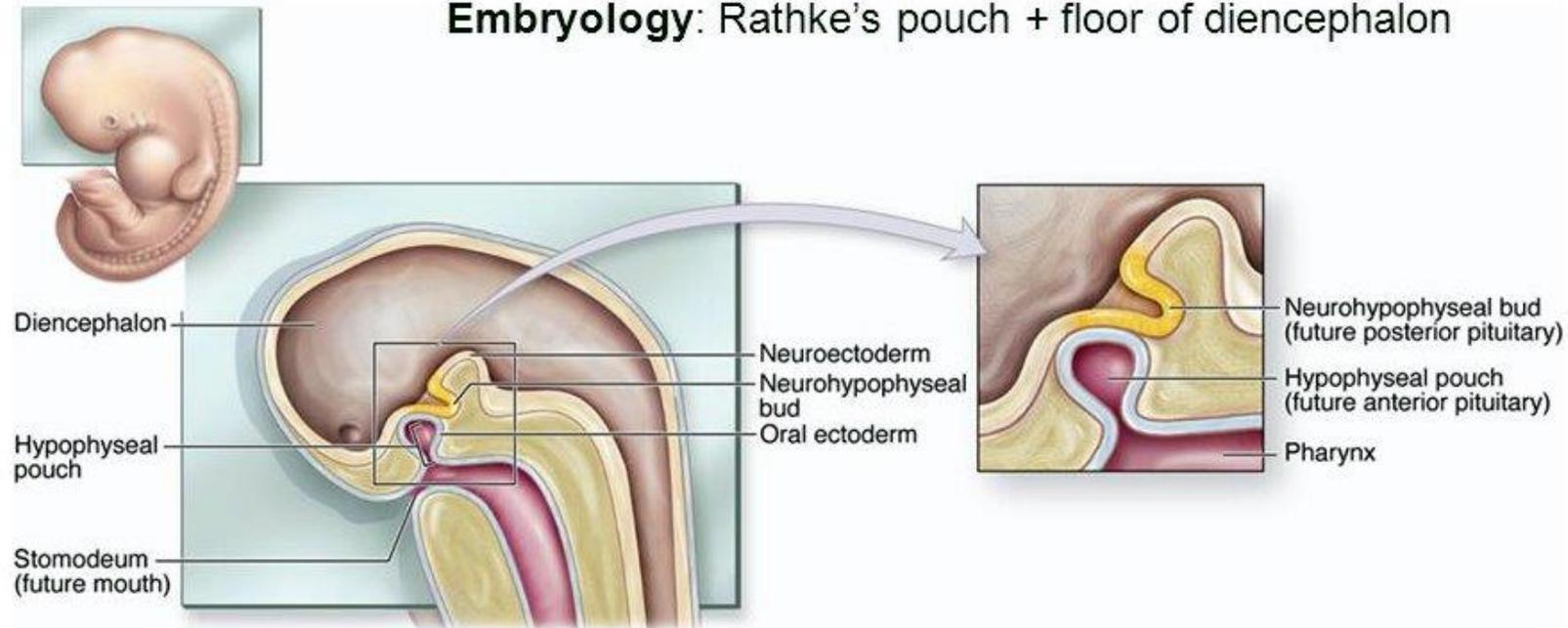
c Fetal period: Anterior and posterior pituitary have formed.



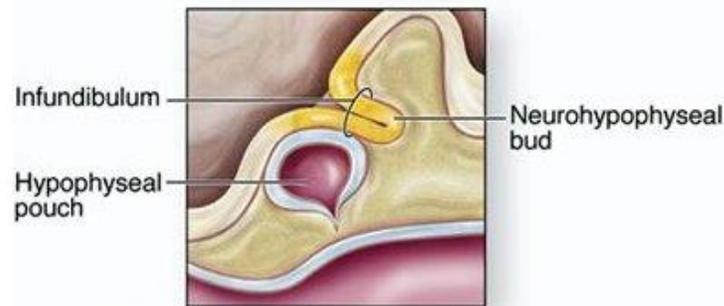


Formación de la neurohipófisis

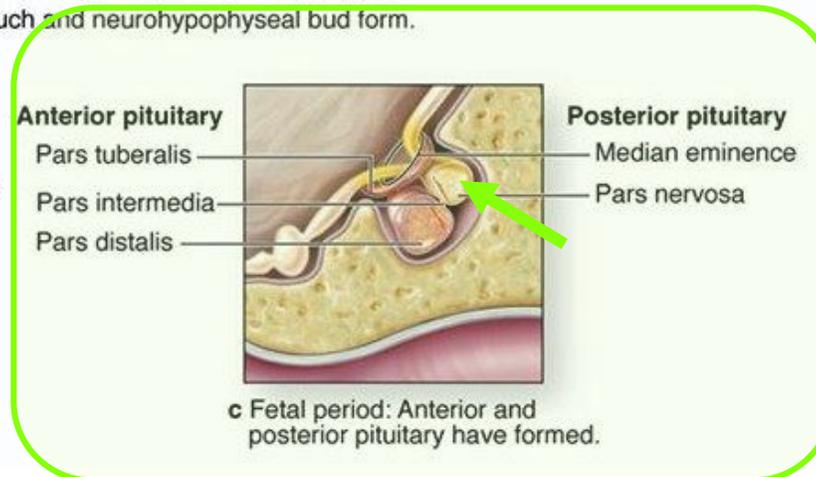
Embryology: Rathke's pouch + floor of diencephalon



a Week 3: Hypophyseal pouch and neurohypophyseal bud form.



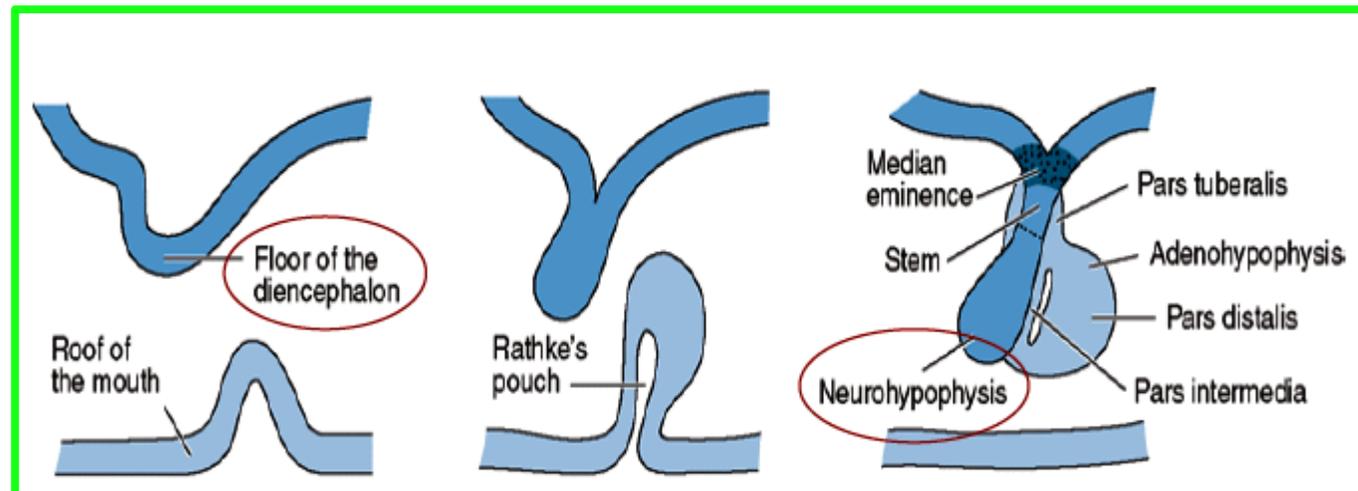
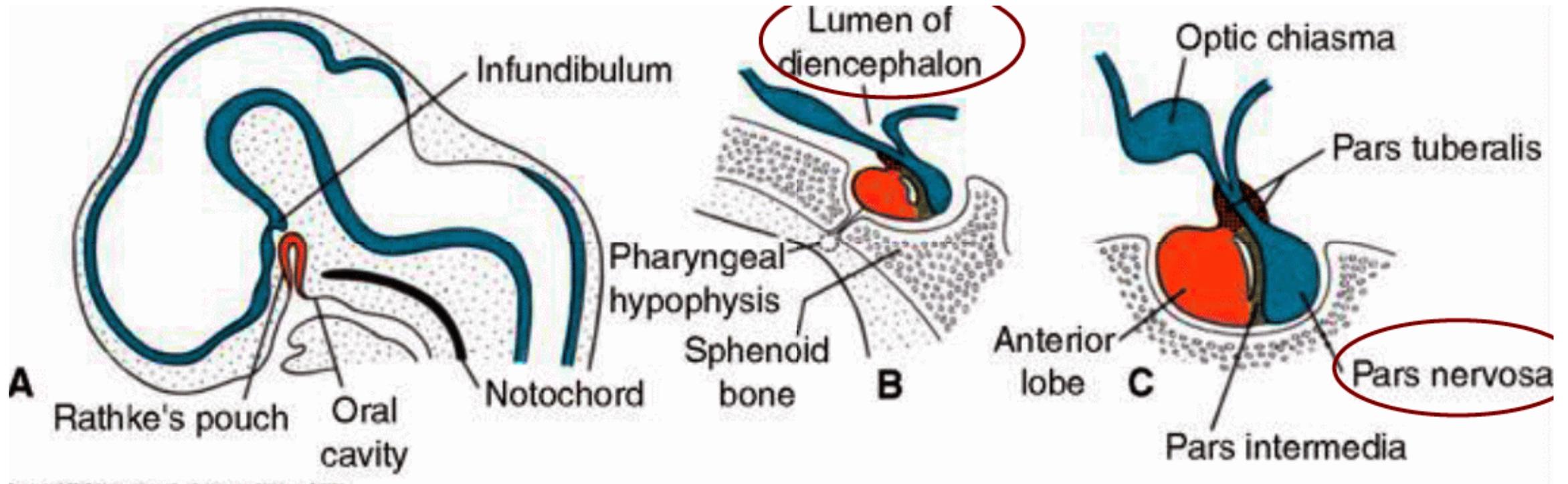
b Late second month: Hypophyseal pouch loses contact with roof of pharynx.



c Fetal period: Anterior and posterior pituitary have formed.

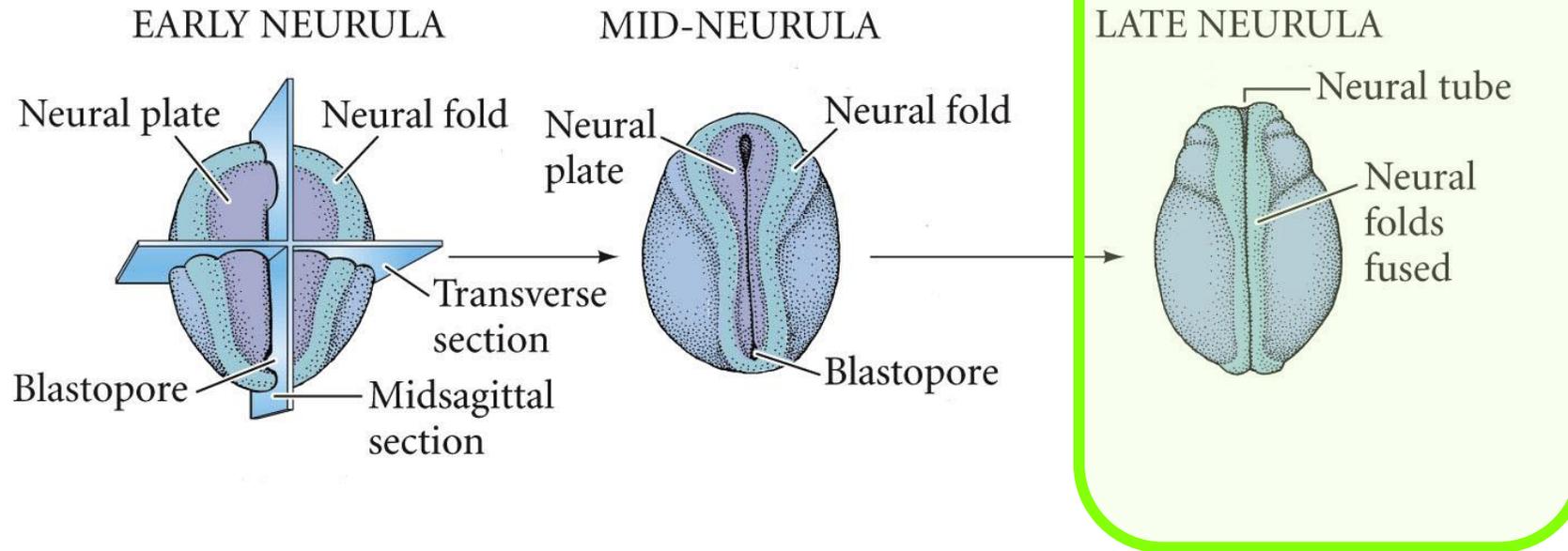


Formación de la neurohipófisis

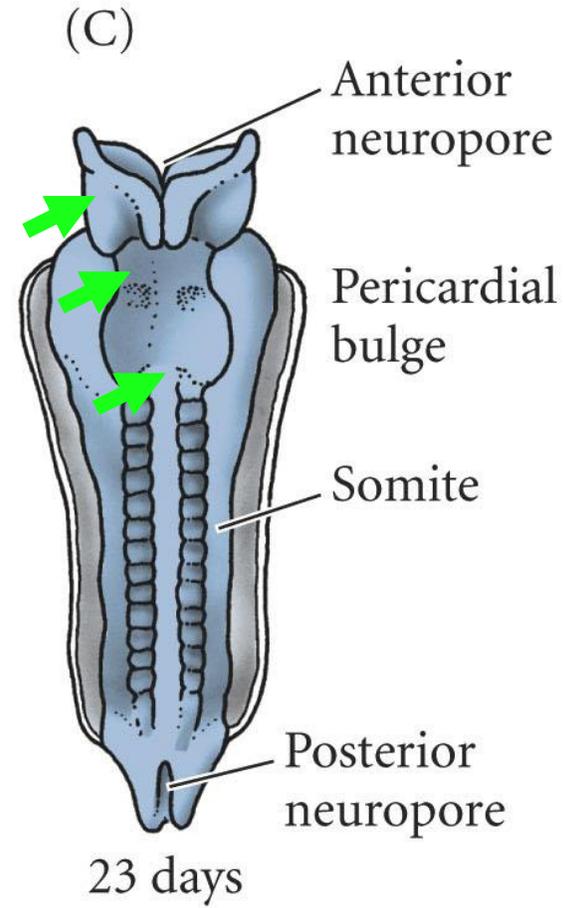
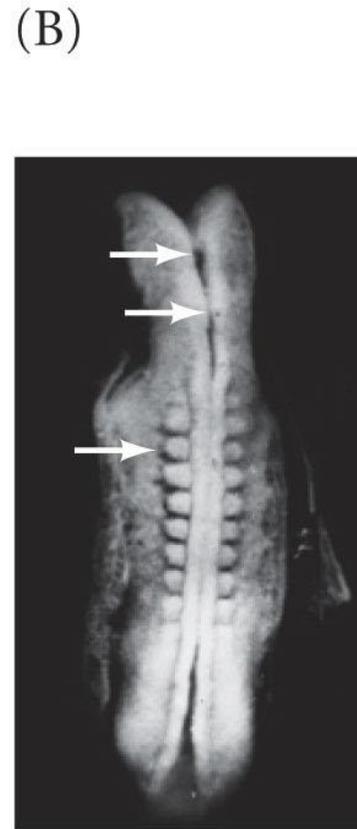
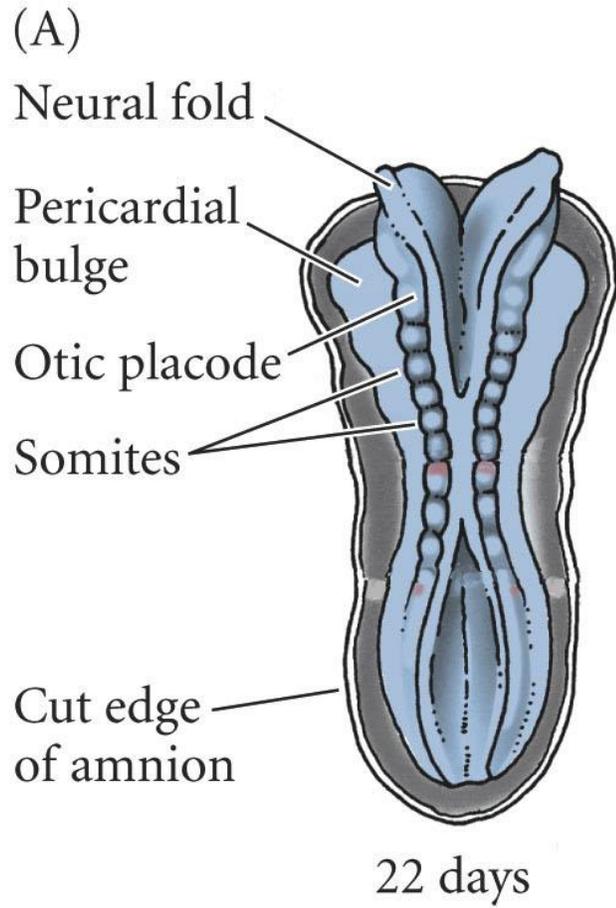


Formación del cerebro

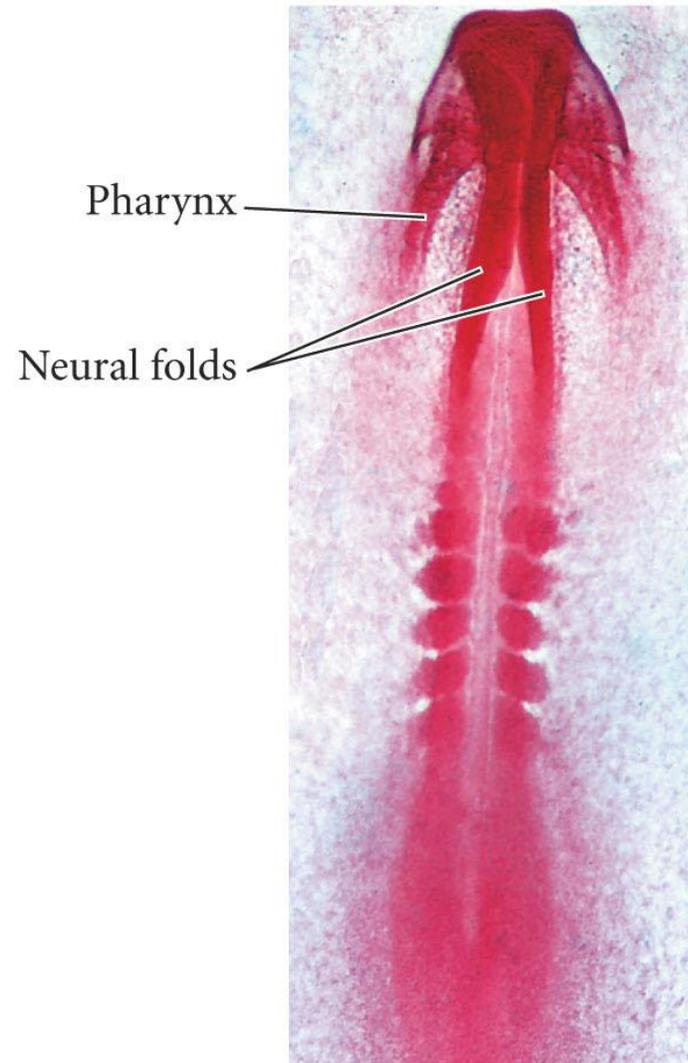
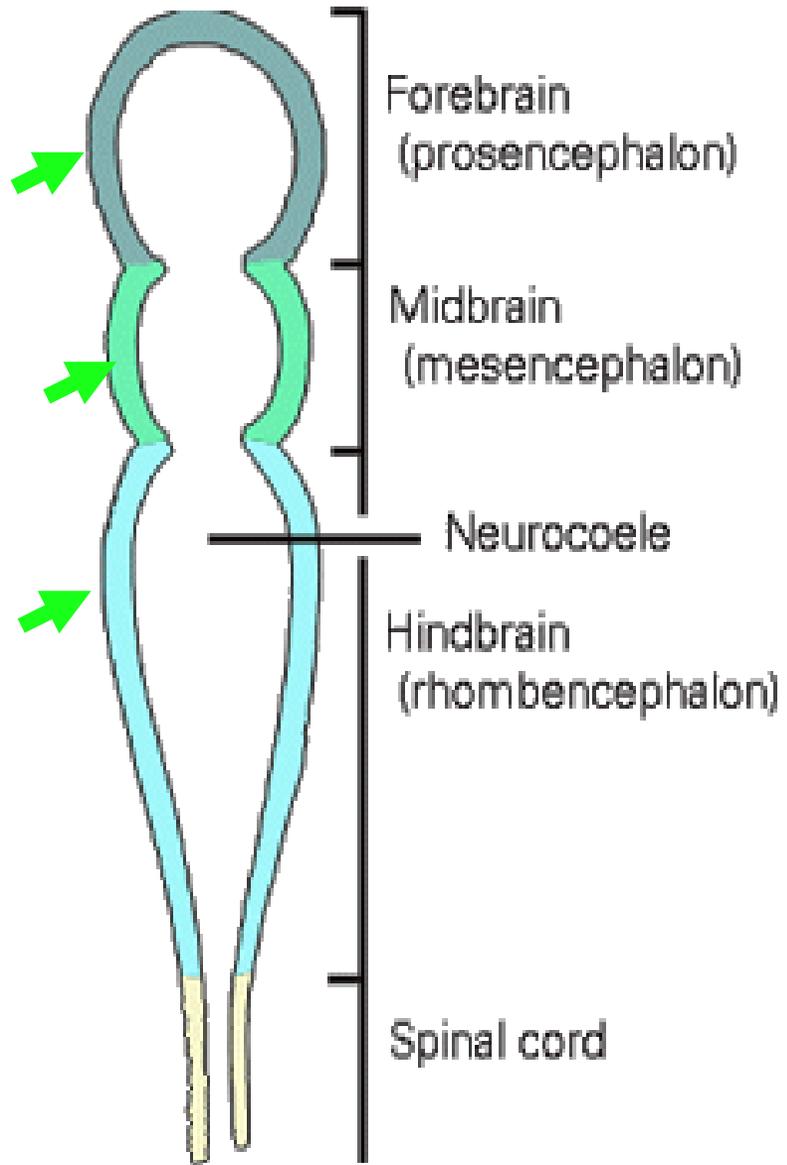
(A) DORSAL SURFACE VIEW



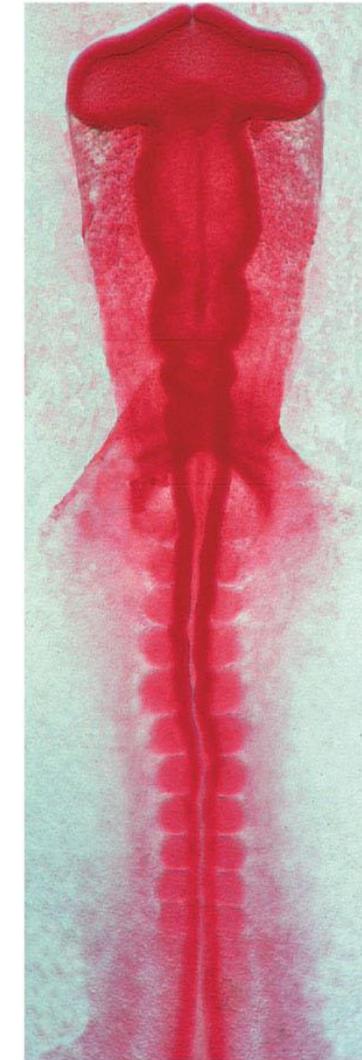
Formación del cerebro



Formación del cerebro



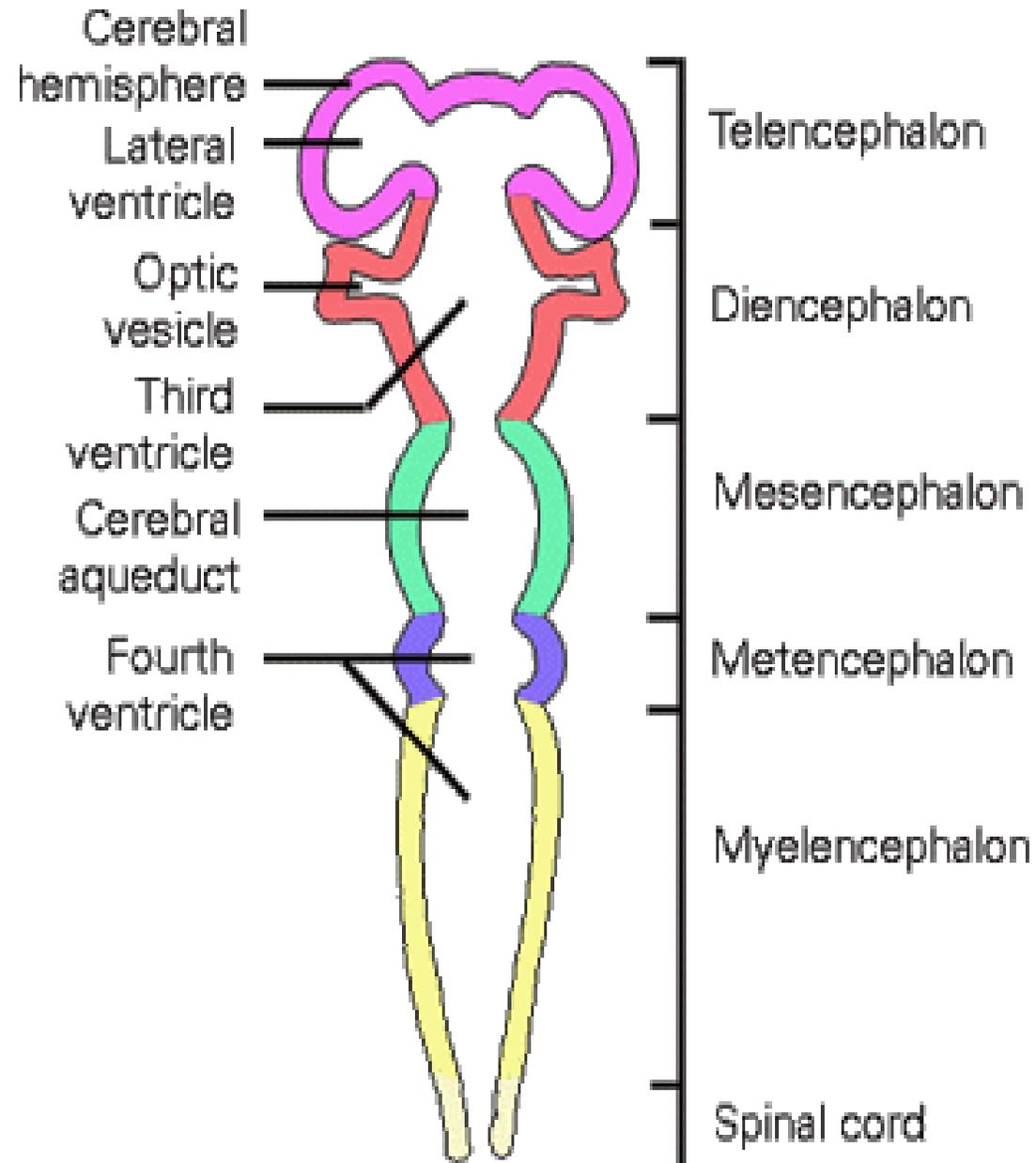
(D)



(E)

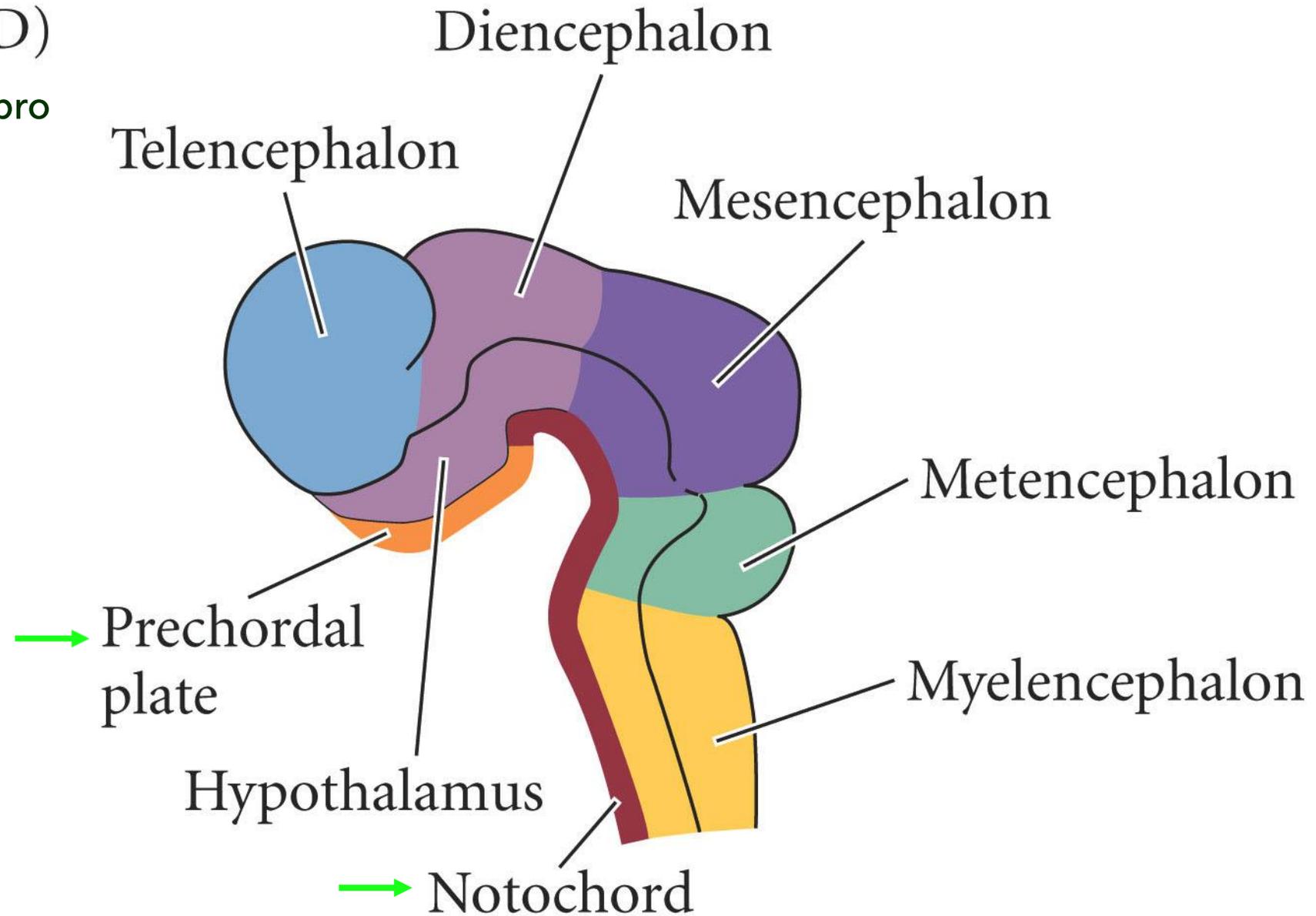


Formación del cerebro

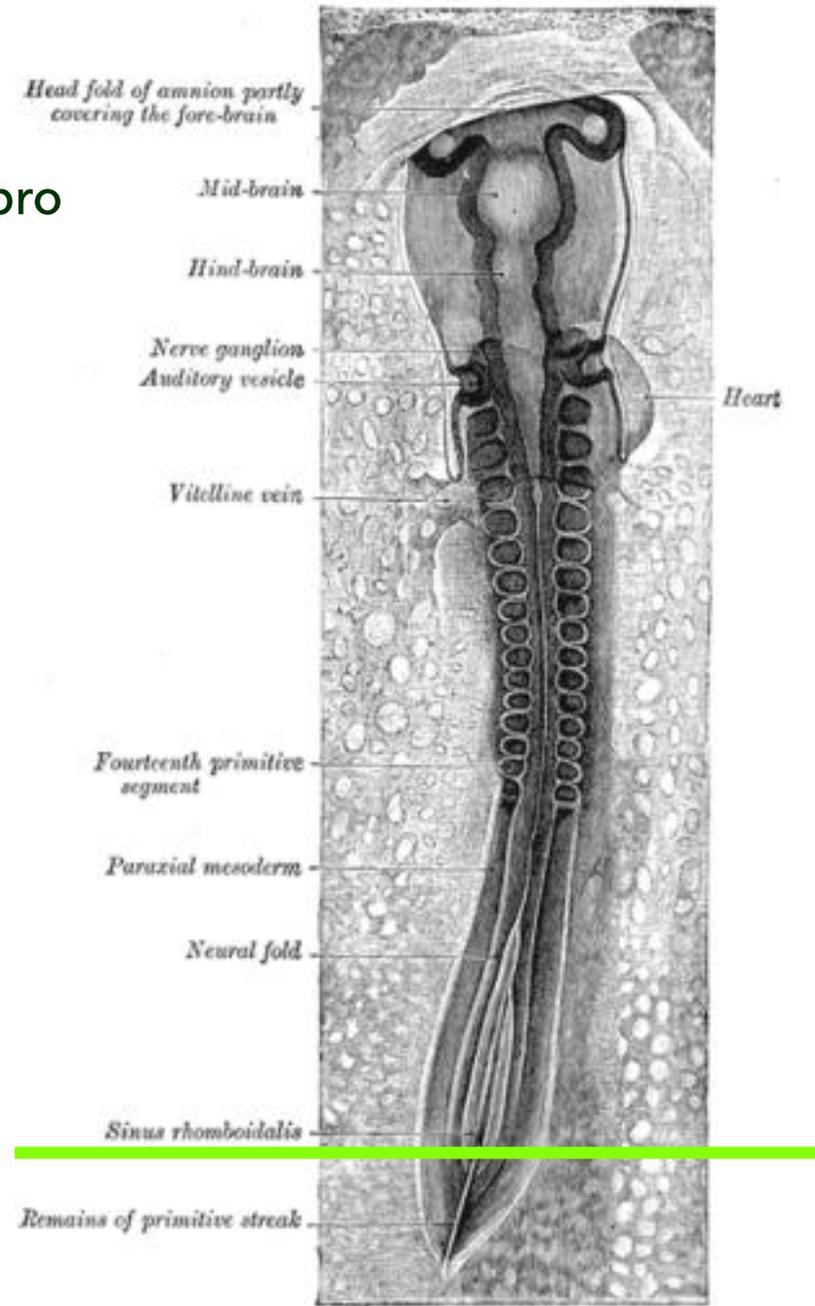


(D)

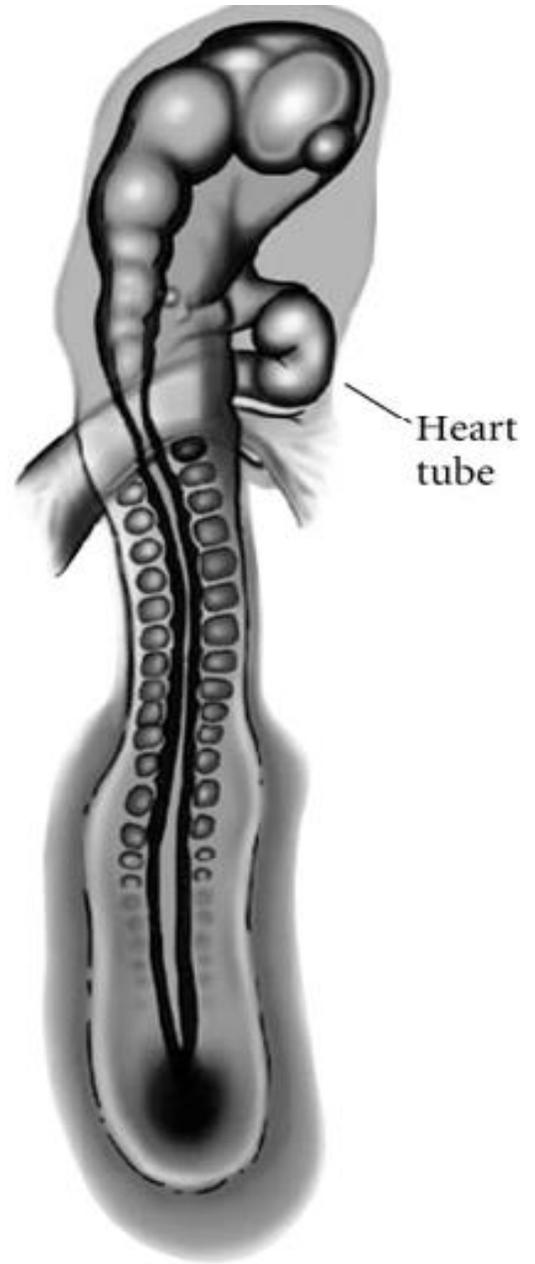
Formación del cerebro



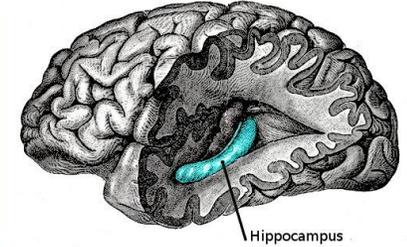
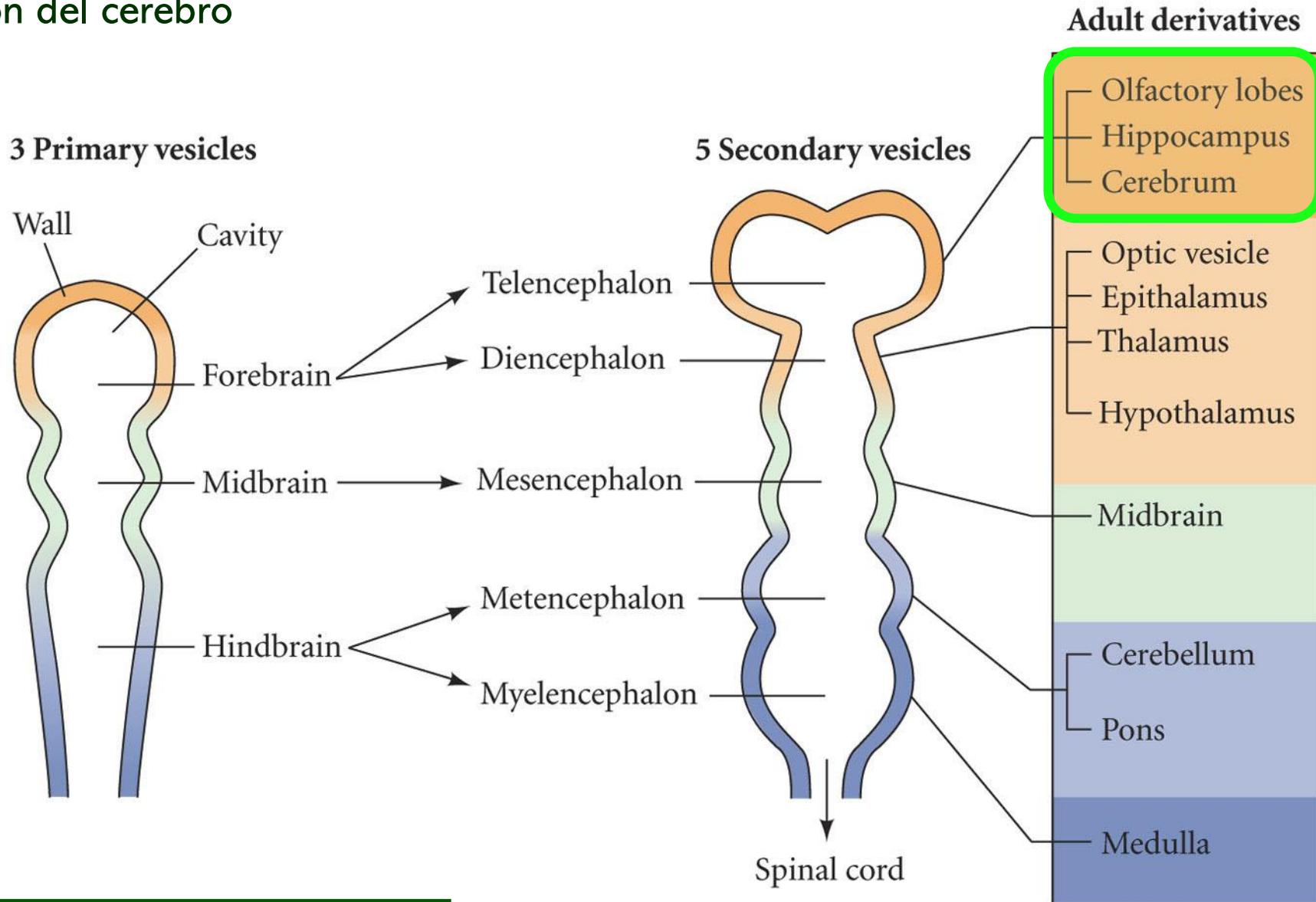
Formación del cerebro



Línea primitiva



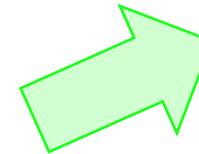
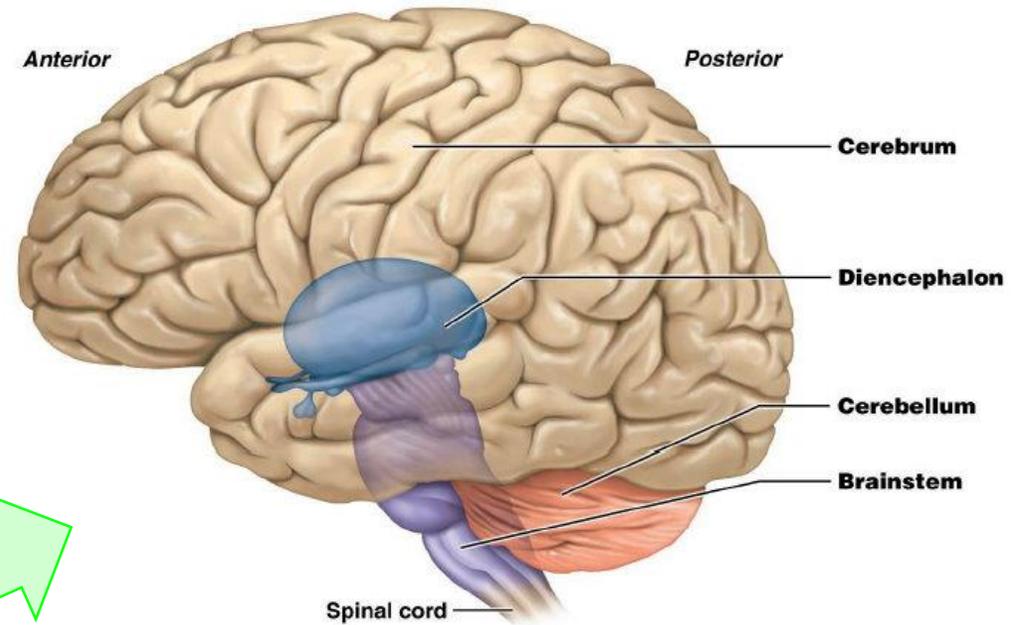
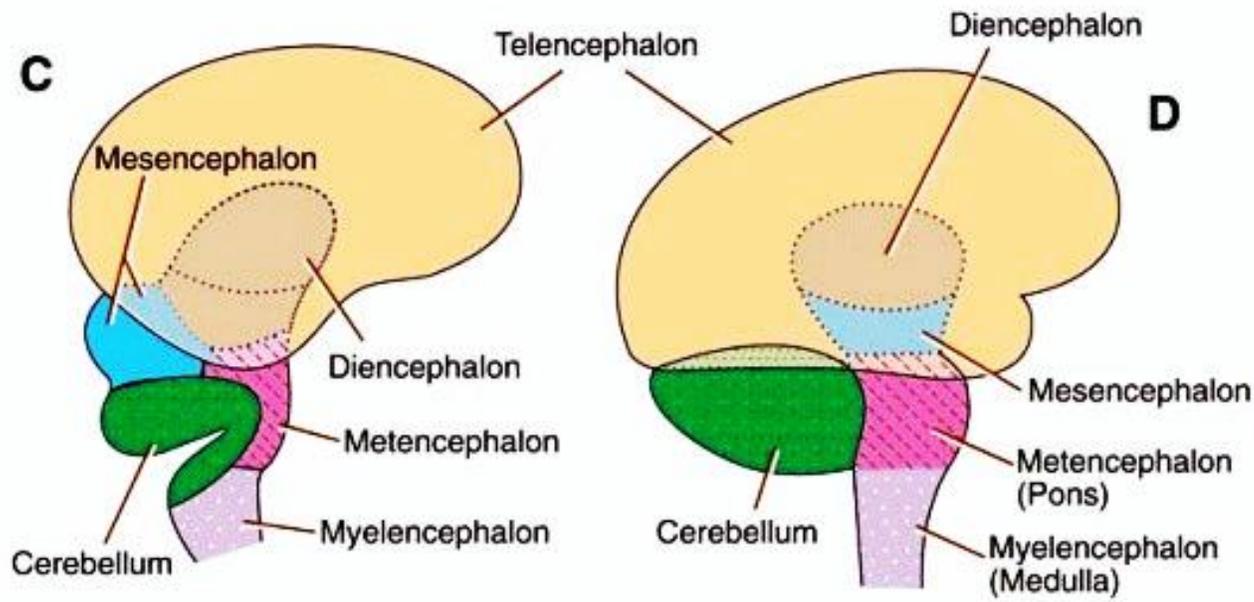
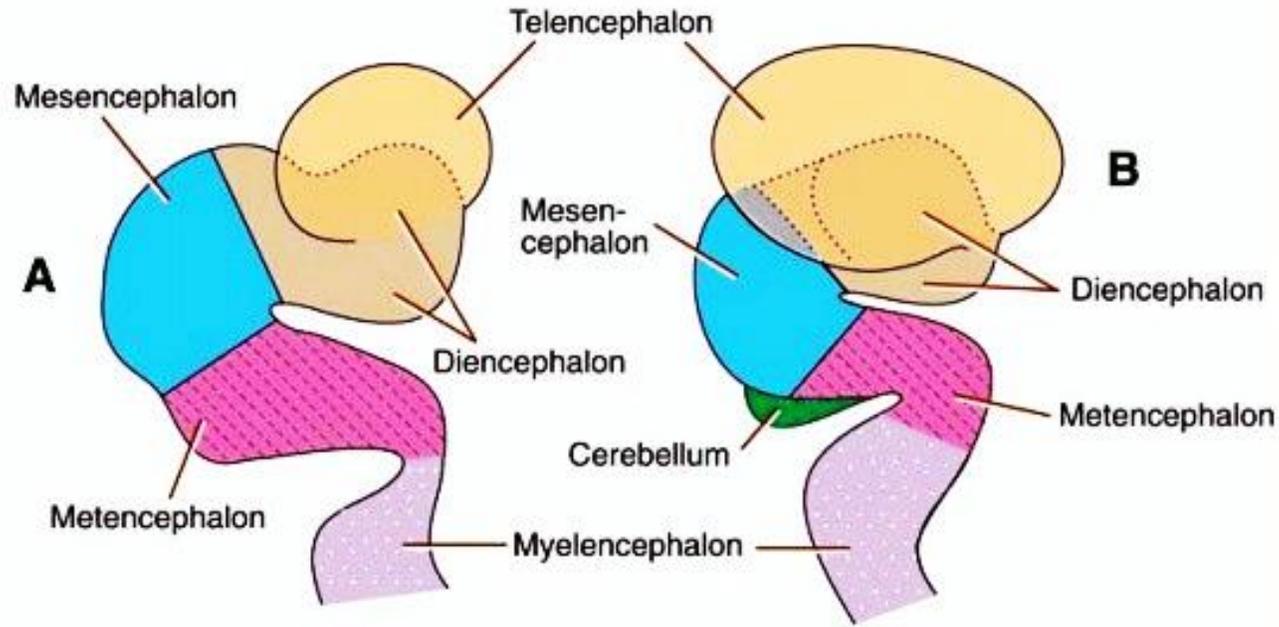
Formación del cerebro



Cerebro anterior, telencéfalo



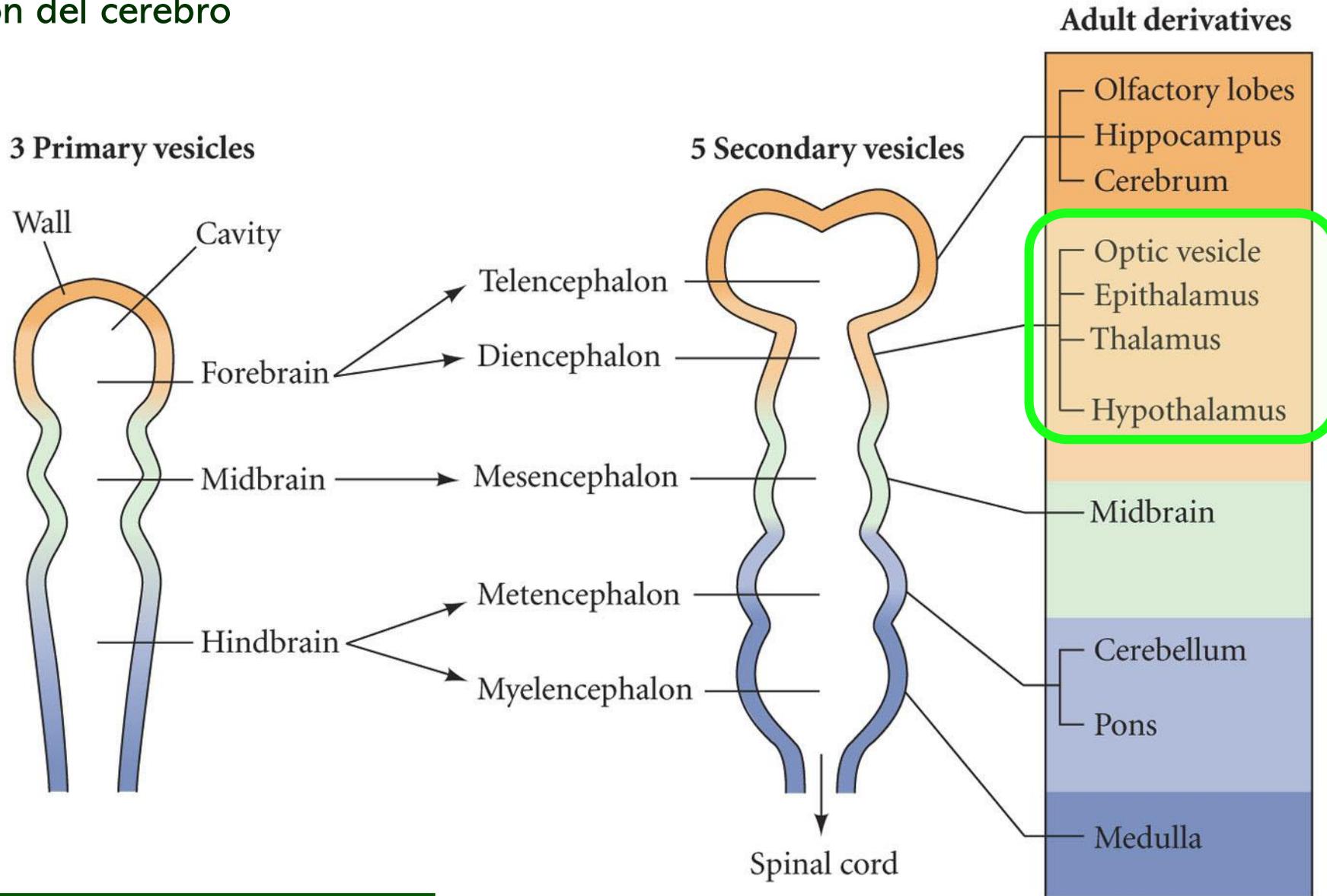
Formación del cerebro



Cerebro anterior, telencéfalo



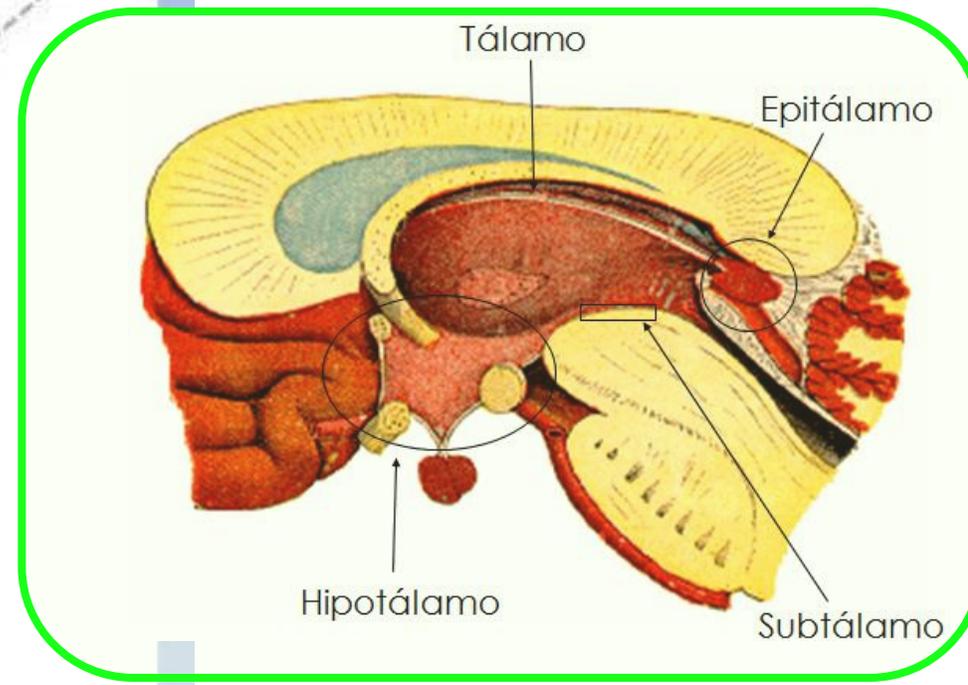
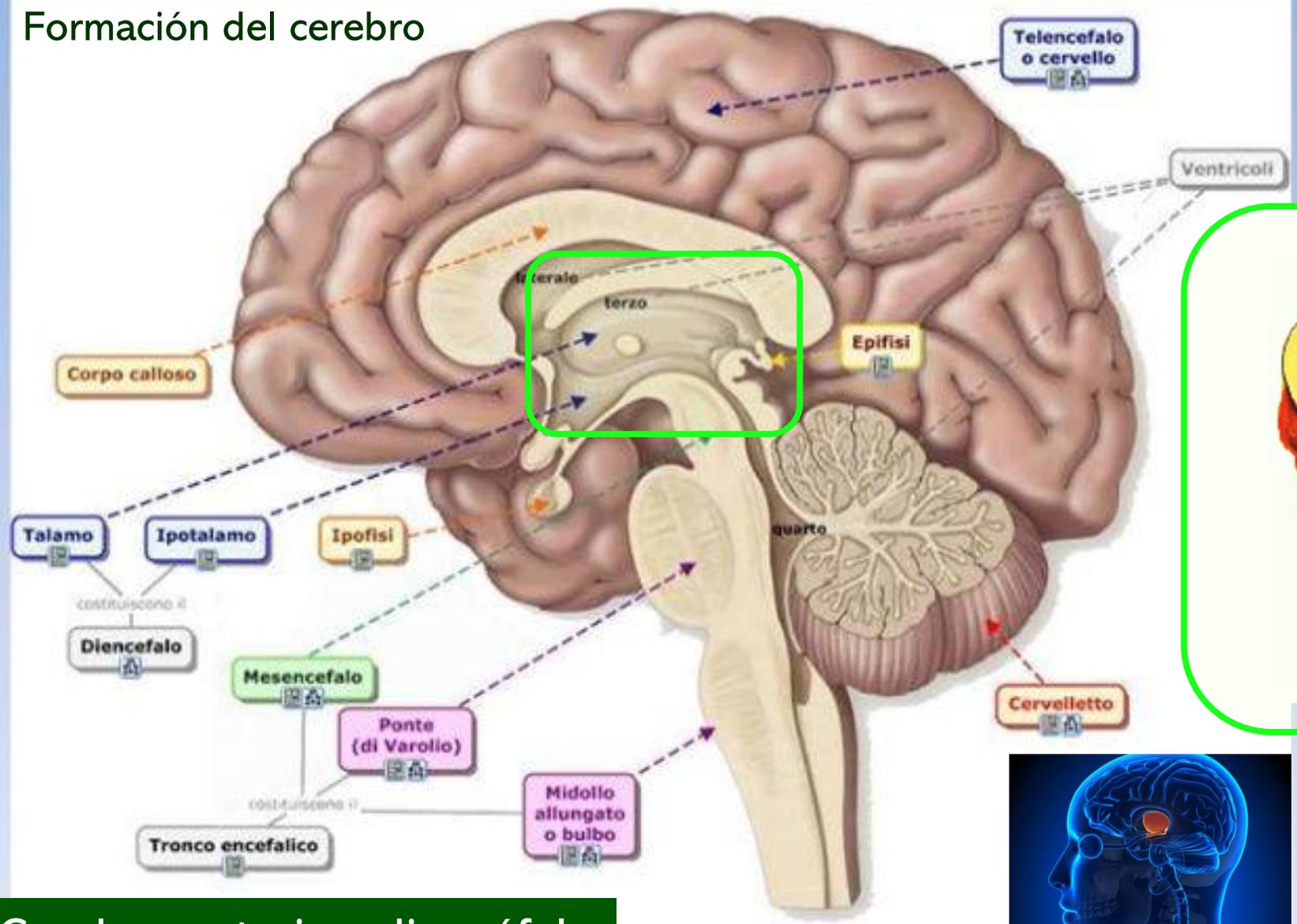
Formación del cerebro



Cerebro anterior, diencéfalo

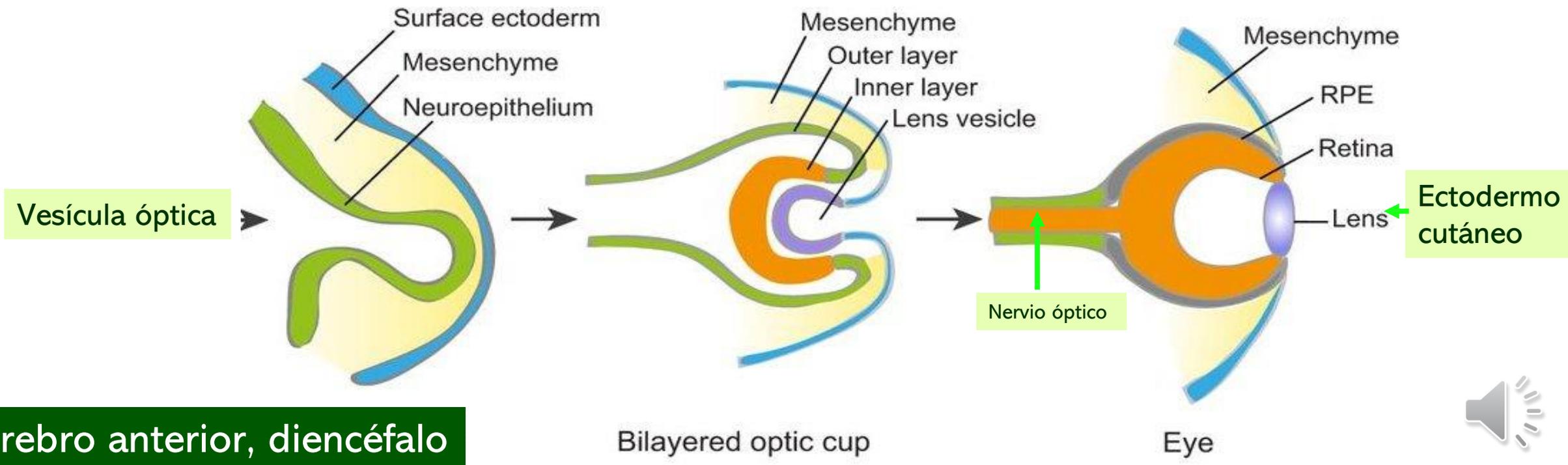
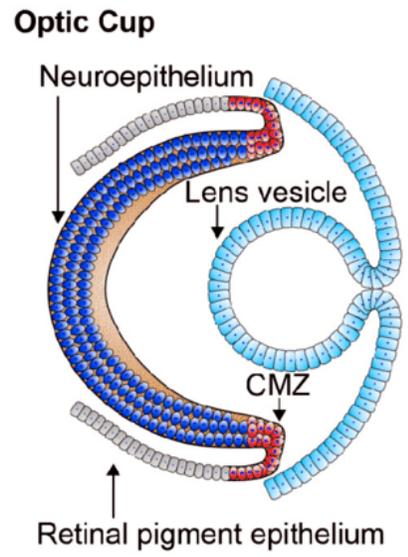
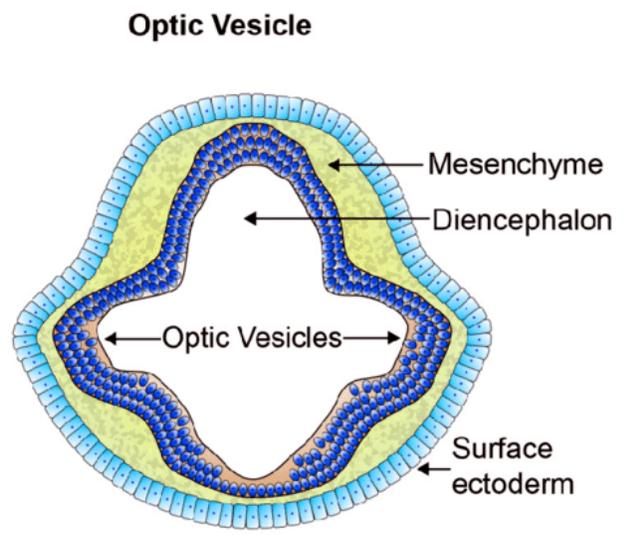
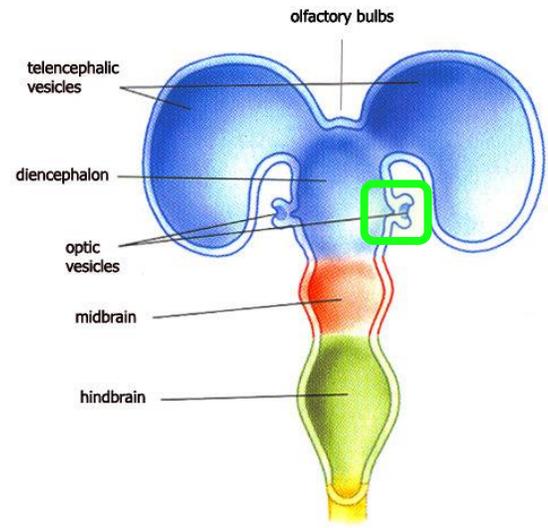


Formación del cerebro



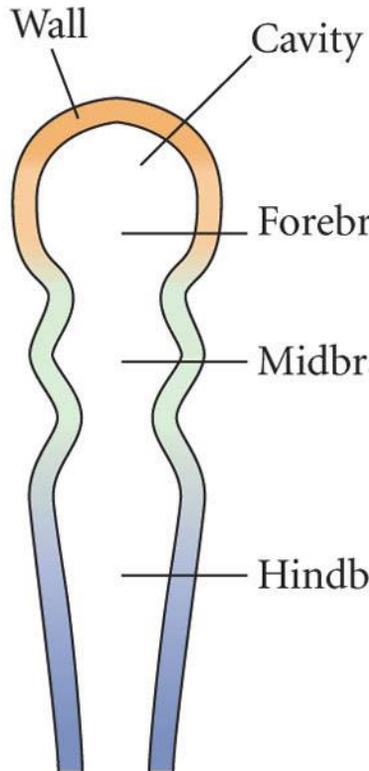
Cerebro anterior, diencefalo



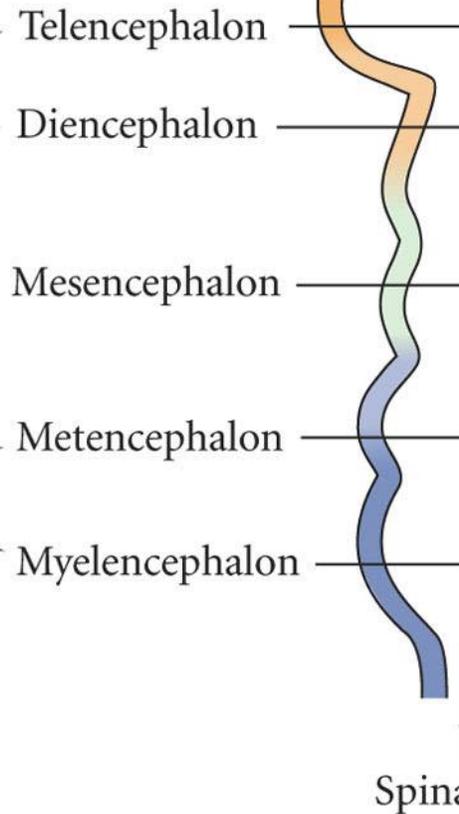


Formación del cerebro

3 Primary vesicles

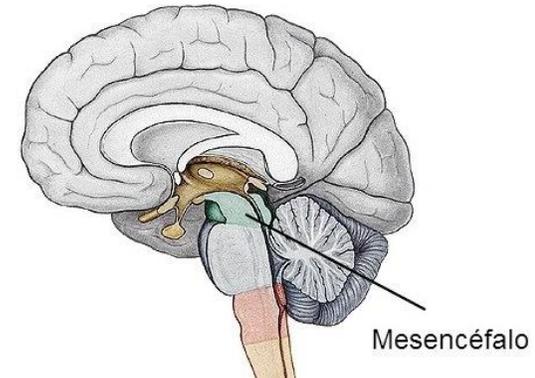


5 Secondary vesicles



Adult derivatives

- Olfactory lobes
- Hippocampus
- Cerebrum
- Optic vesicle
- Epithalamus
- Thalamus
- Hypothalamus
- **Midbrain**
- Cerebellum
- Pons
- Medulla

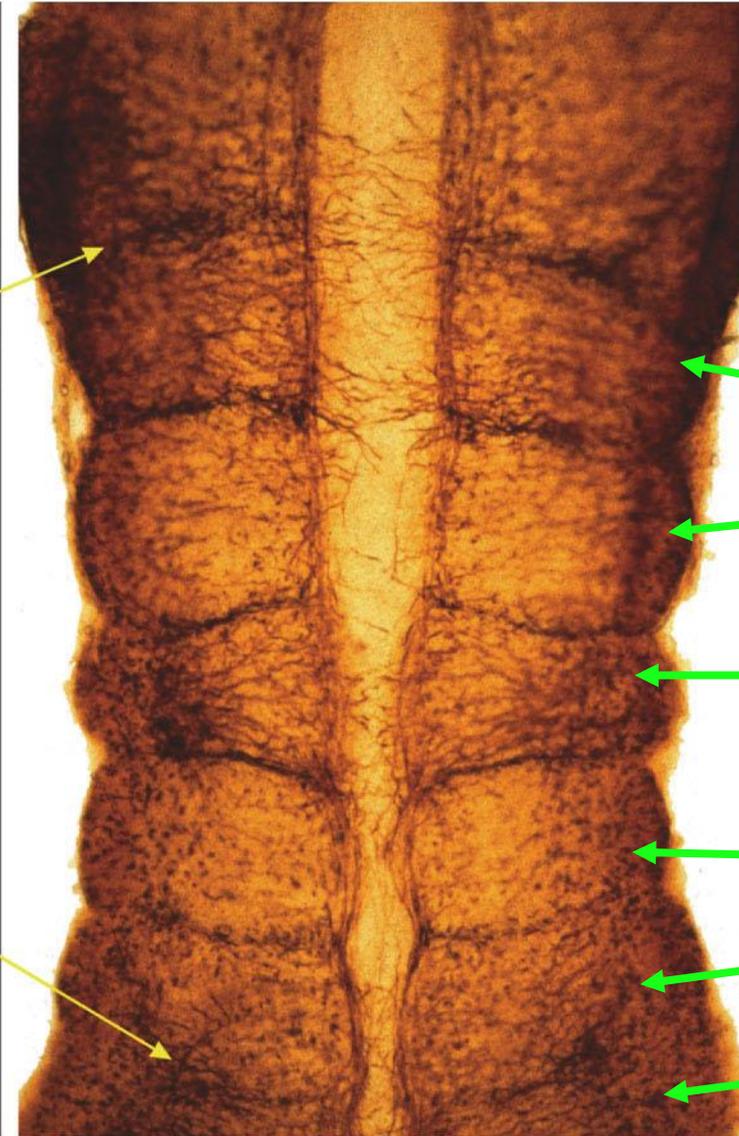
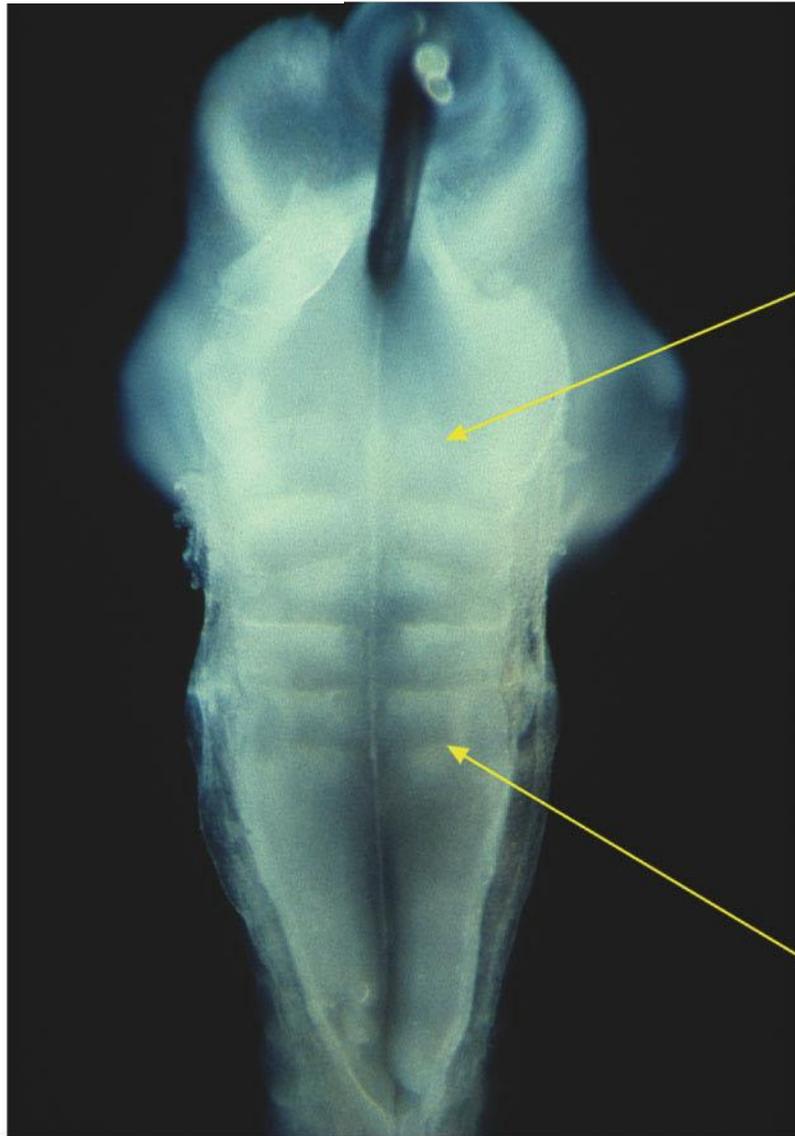


Cerebro medio, mesencéfalo



Formación del cerebro

Cerebro posterior, rombencéfalo



R1

R2

R3

R4

R5

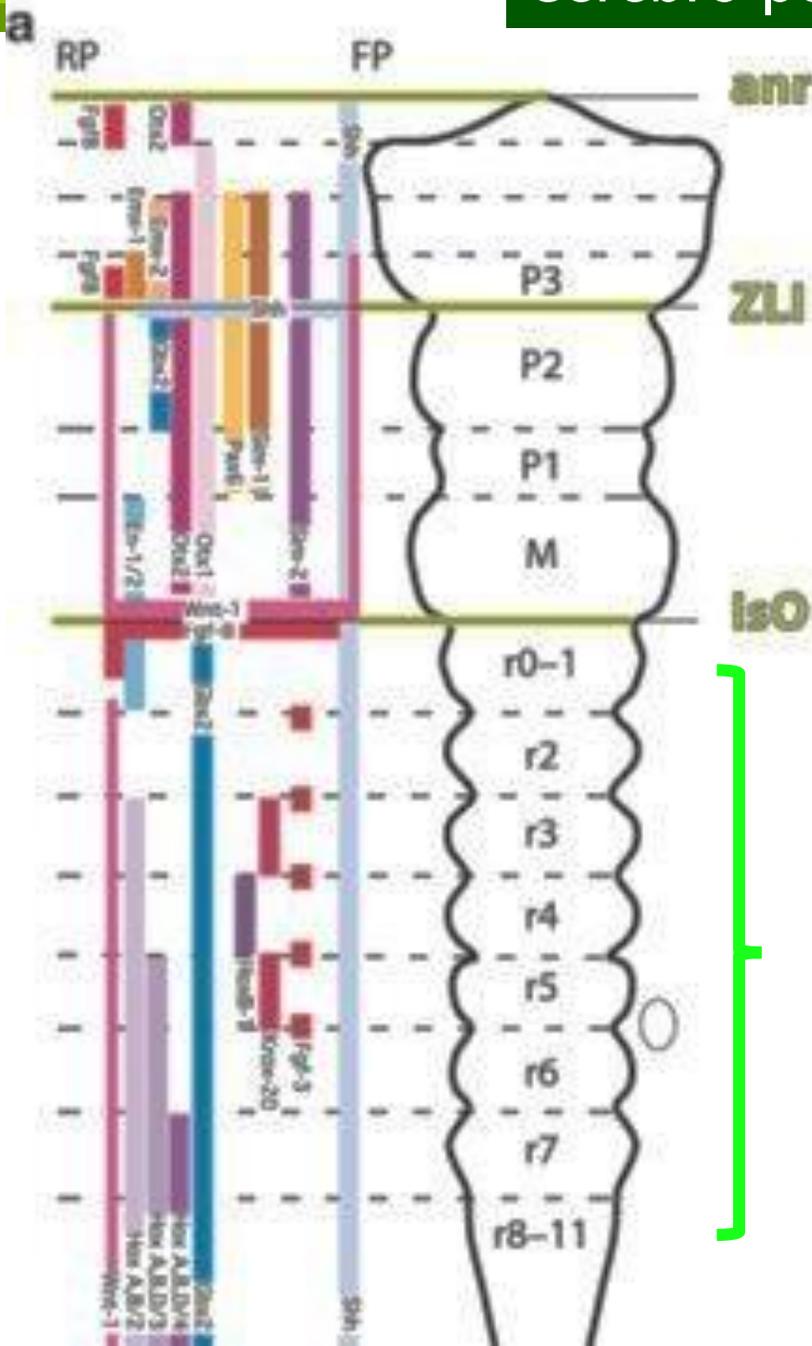
R6

Rombómeros

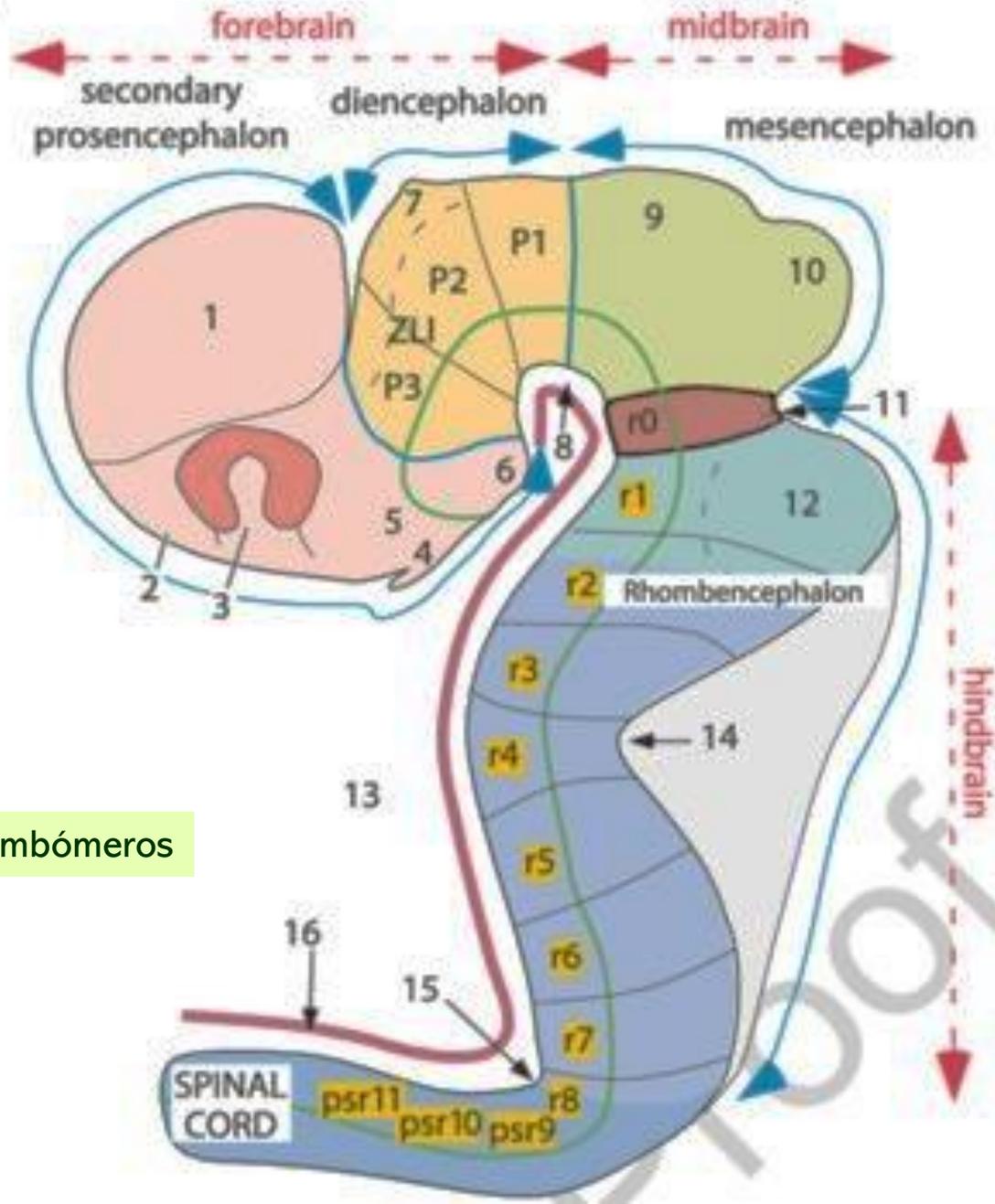


Cerebro posterior, rombencéfalo

Derivados ectodérmicos



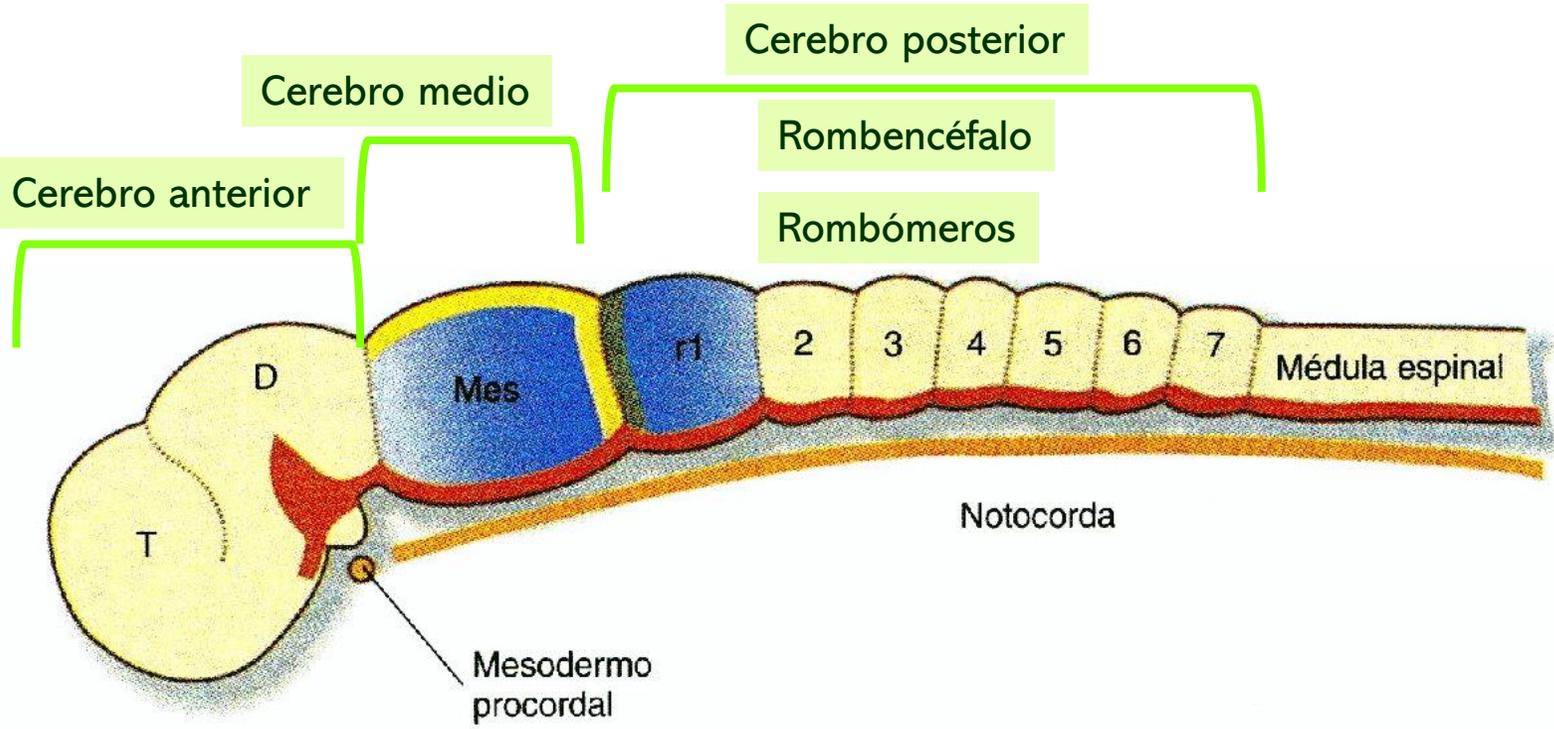
Rombómeros



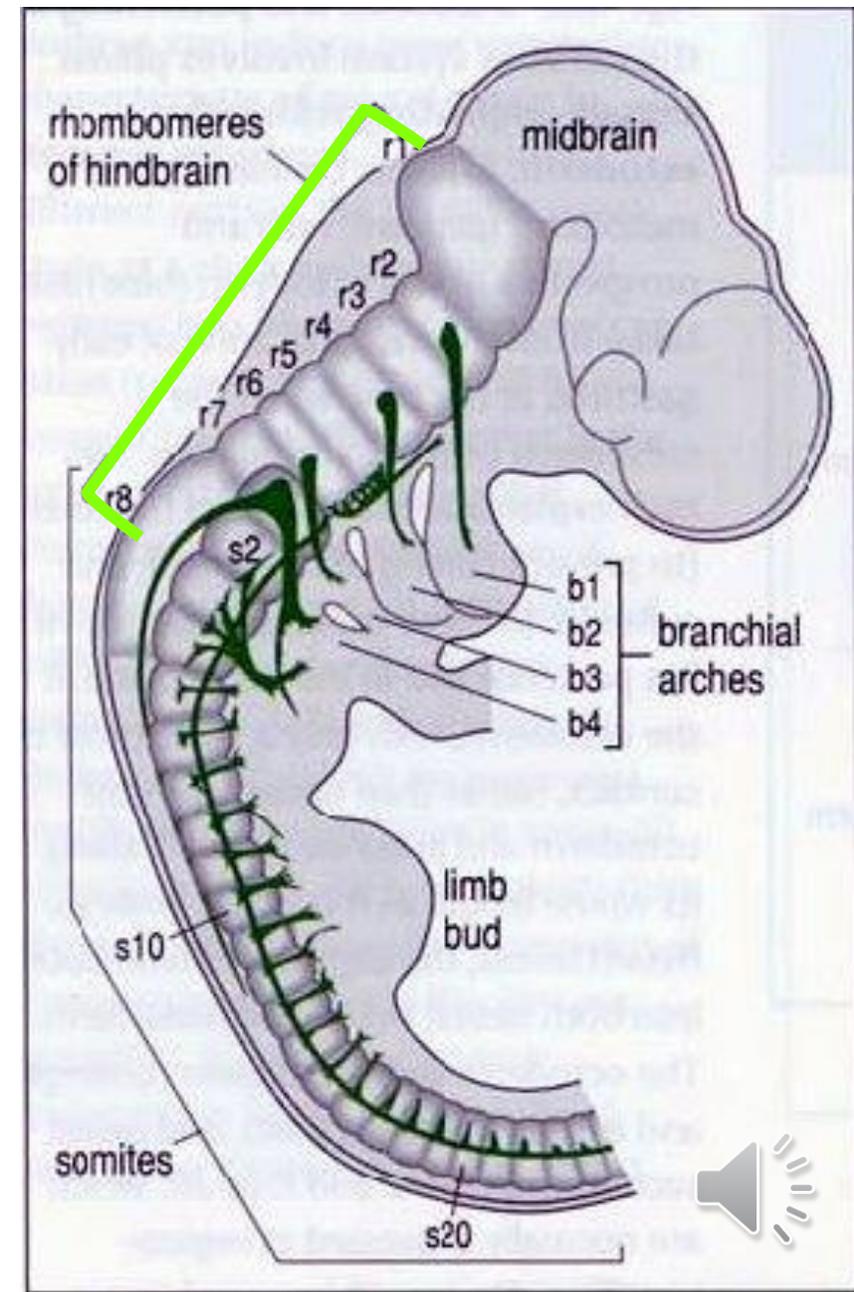
1. telencephalon
2. lamina terminalis
3. optic vesicle
4. infundibulum/pituitary
5. hypothalamus
6. mammillary body epiphysis
7. epithalamus/pineal
8. cephalic flexure
9. superior colliculus
10. inferior colliculus
11. isthmus
12. cerebellar plate
13. medulla
14. pontine flexure
15. cervical flexure
16. notocord
- P1. pretectum
- P2. thalamus
- P3. prethalamus



Formación del cerebro

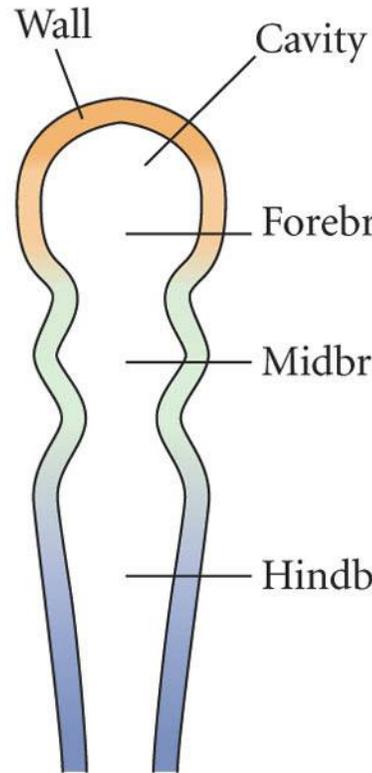


Cerebro posterior, rombencéfalo

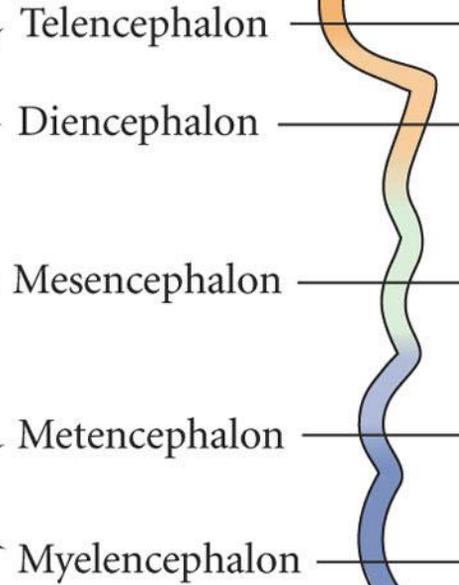


Formación del cerebro

3 Primary vesicles

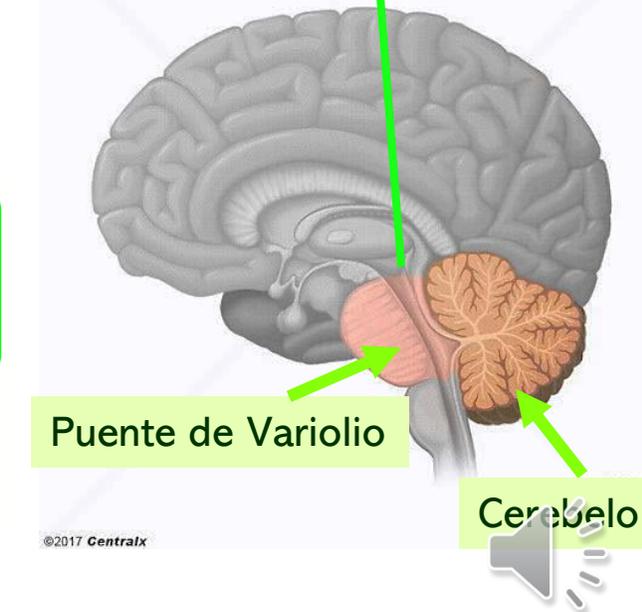
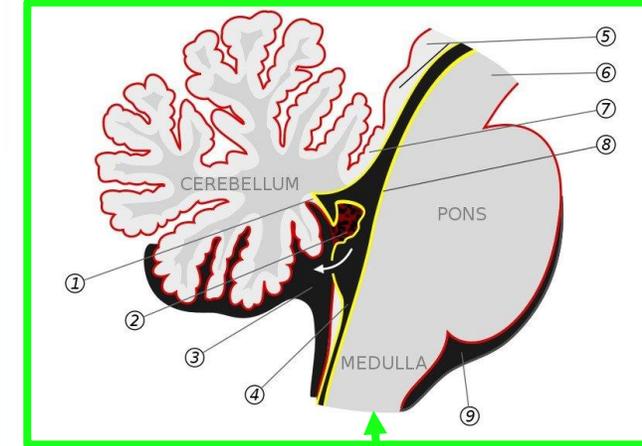
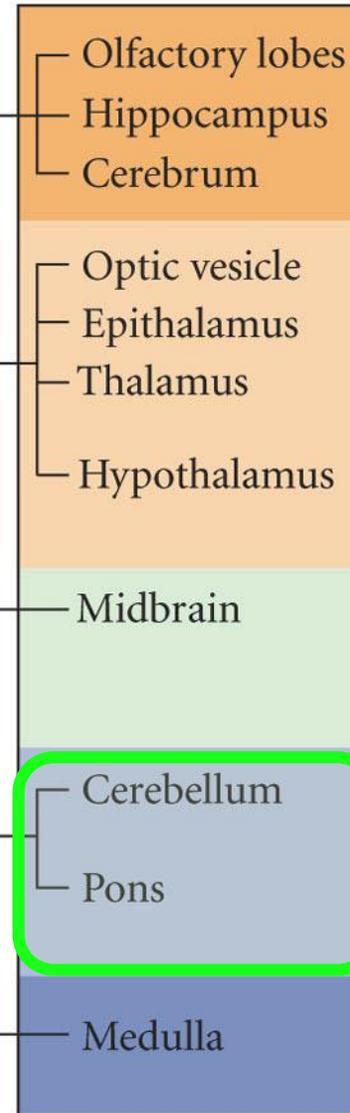


5 Secondary vesicles



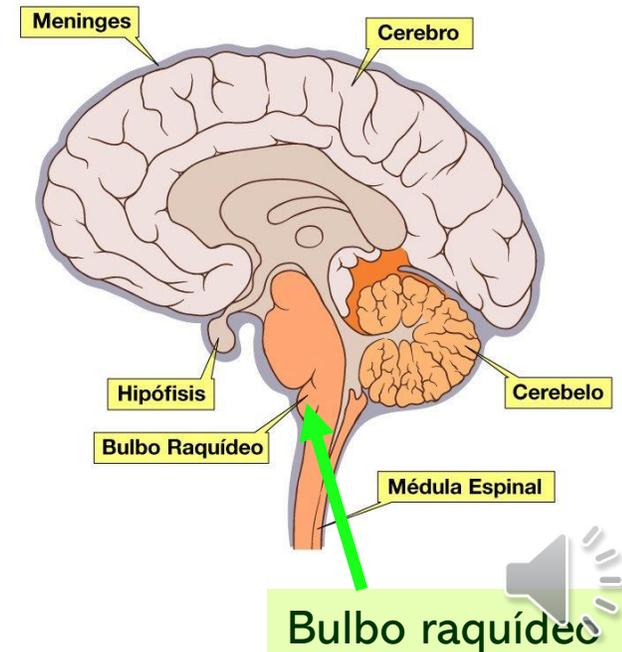
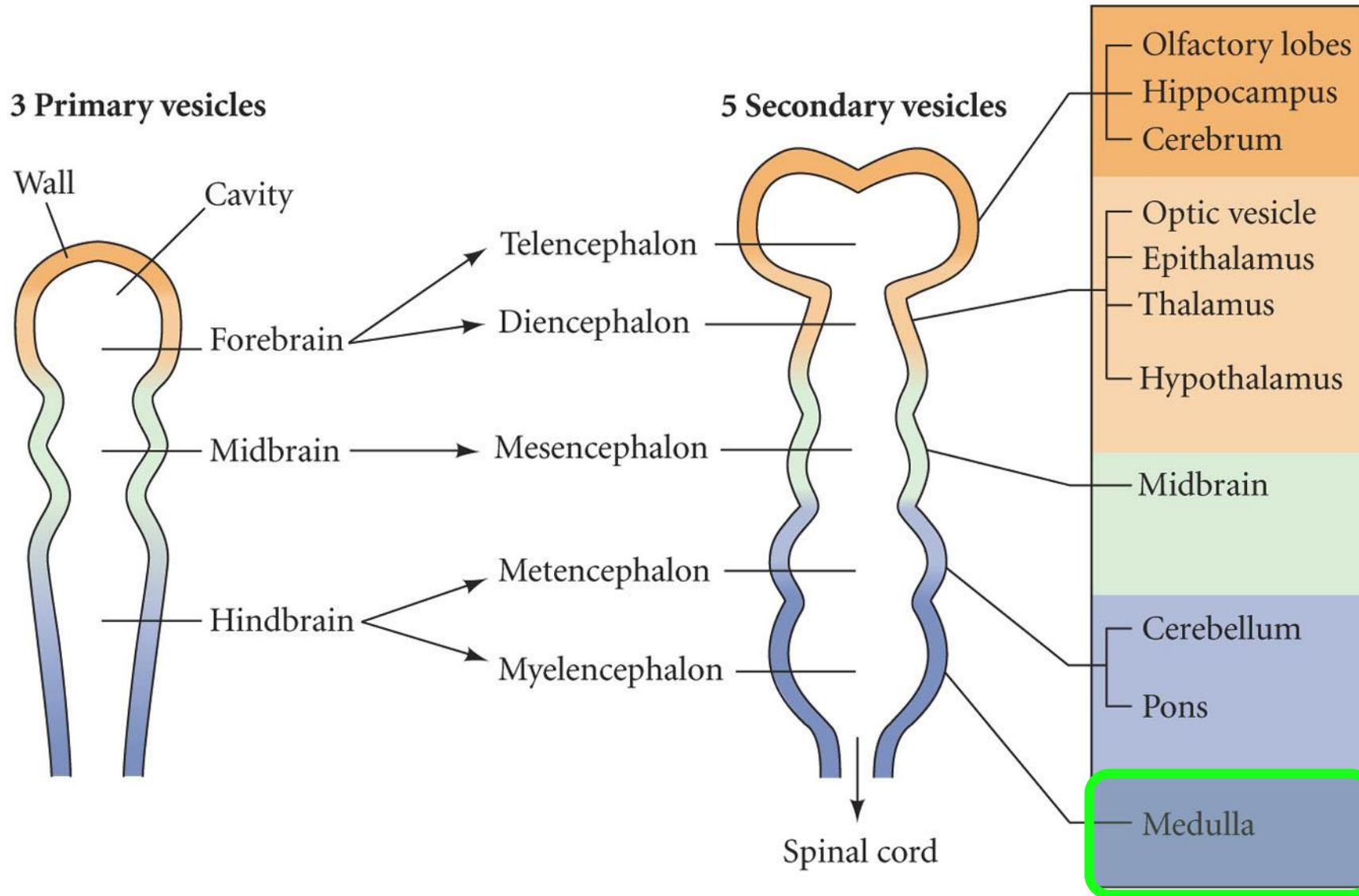
Spinal cord

Adult derivatives

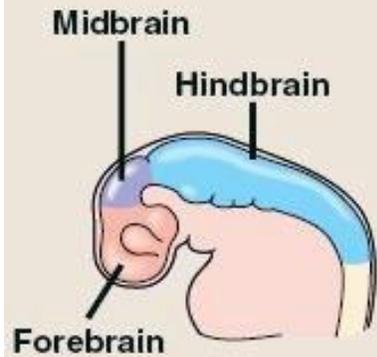
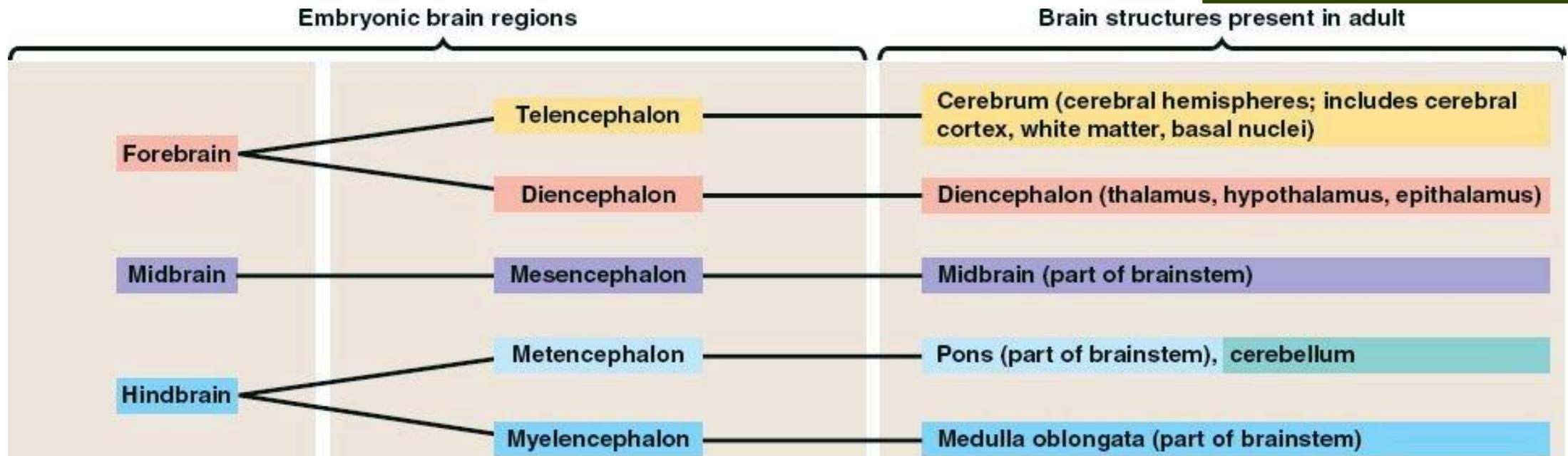


Cerebro posterior, rombencéfalo, metencéfalo

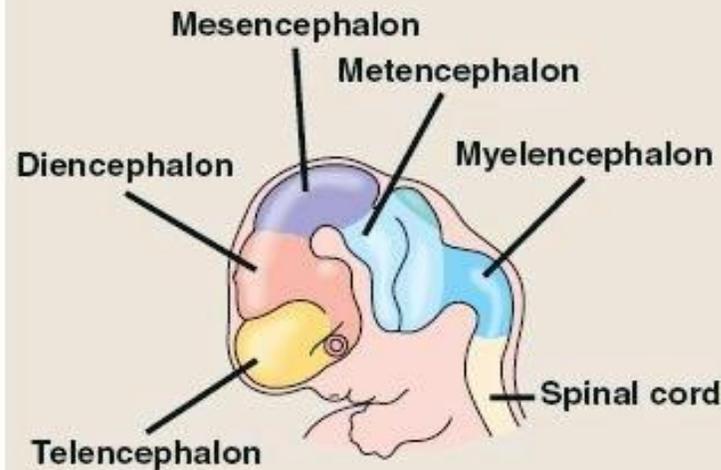
Formación del cerebro



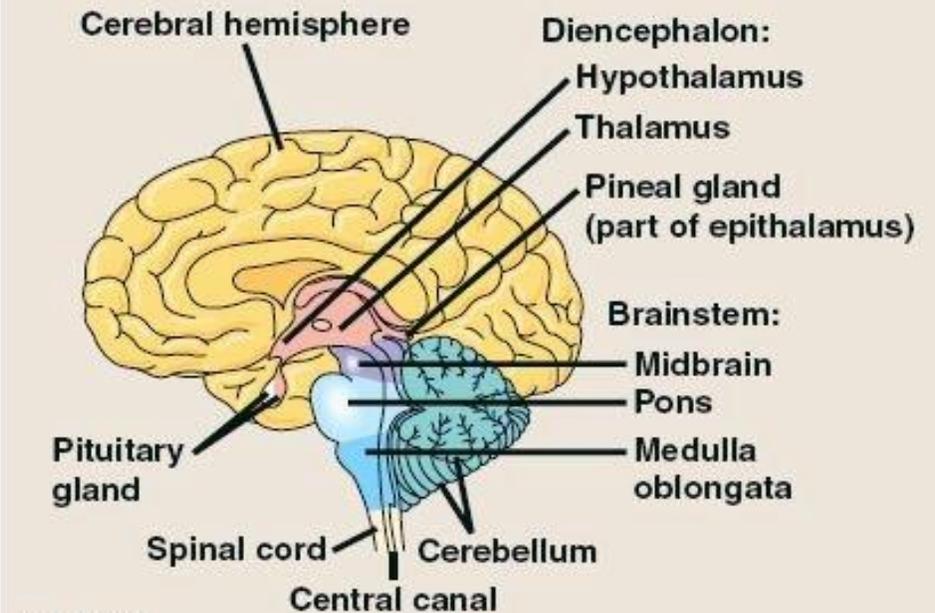
Cerebro posterior, rombencéfalo, mielencéfalo



(a) Embryo at one month

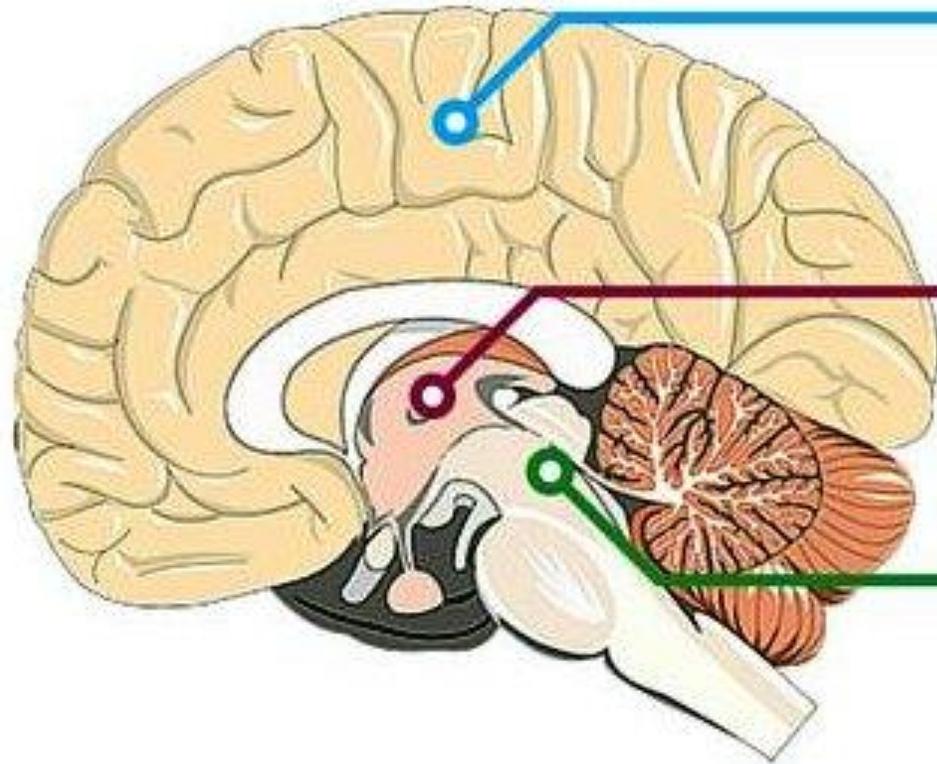


(b) Embryo at five weeks



(c) Adult





Neocortex

Rational or Thinking Brain

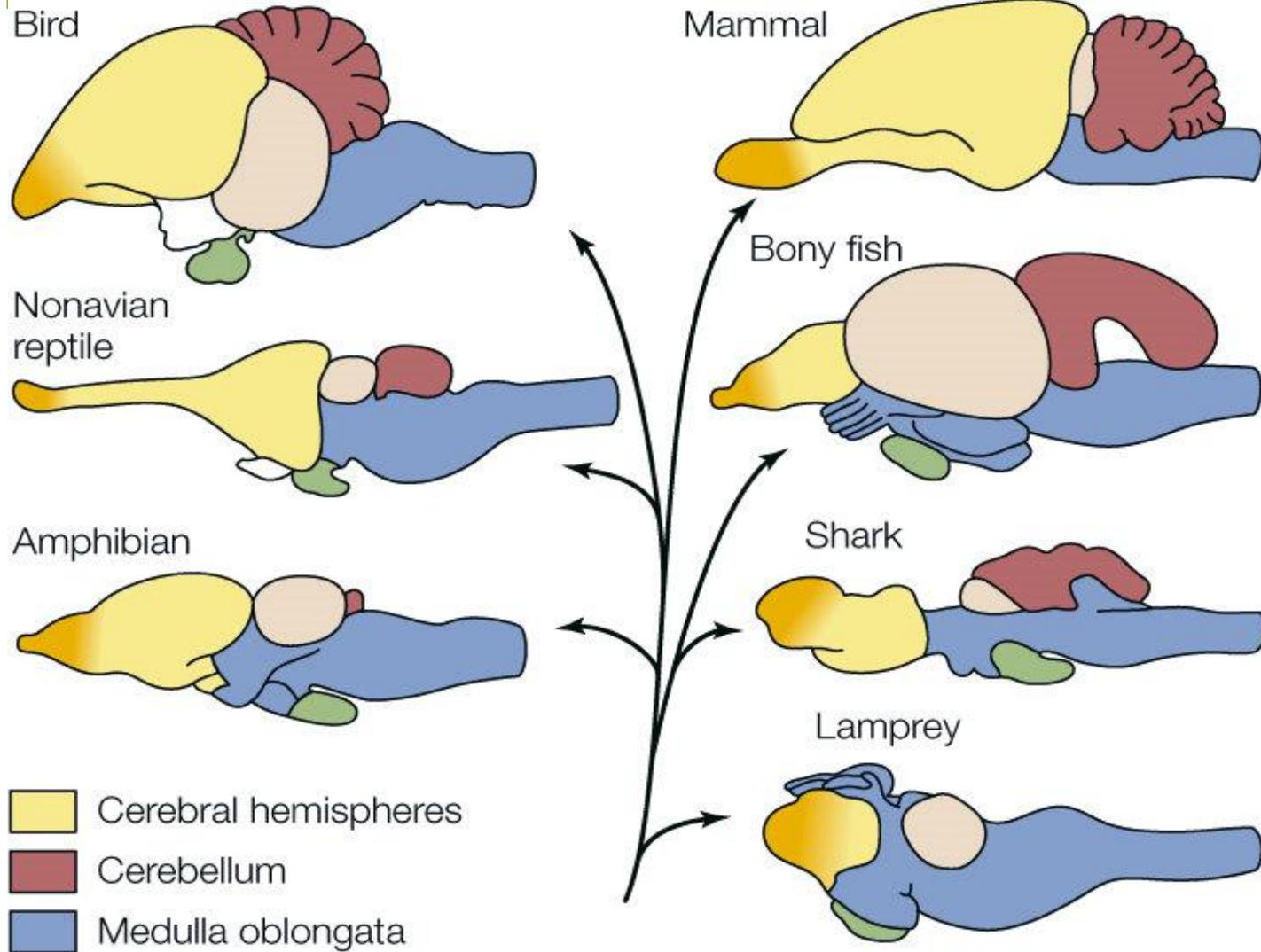
Limbic Brain

Emotional or Feeling Brain

Reptilian Brain

Instinctual or Dinosaur Brain



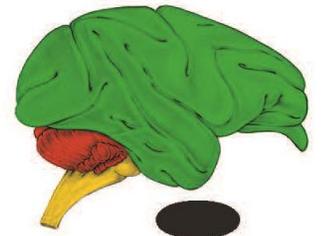


- Cerebral hemispheres
- Cerebellum
- Medulla oblongata
- Pituitary gland
- Optic tectum
- Olfactory bulb

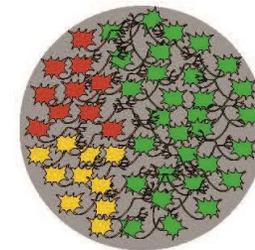
Bird

vs.

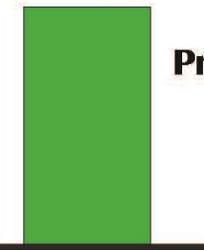
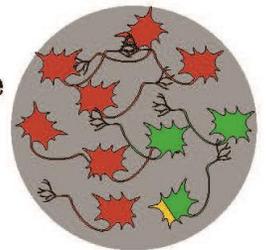
Mammal



Brain mass



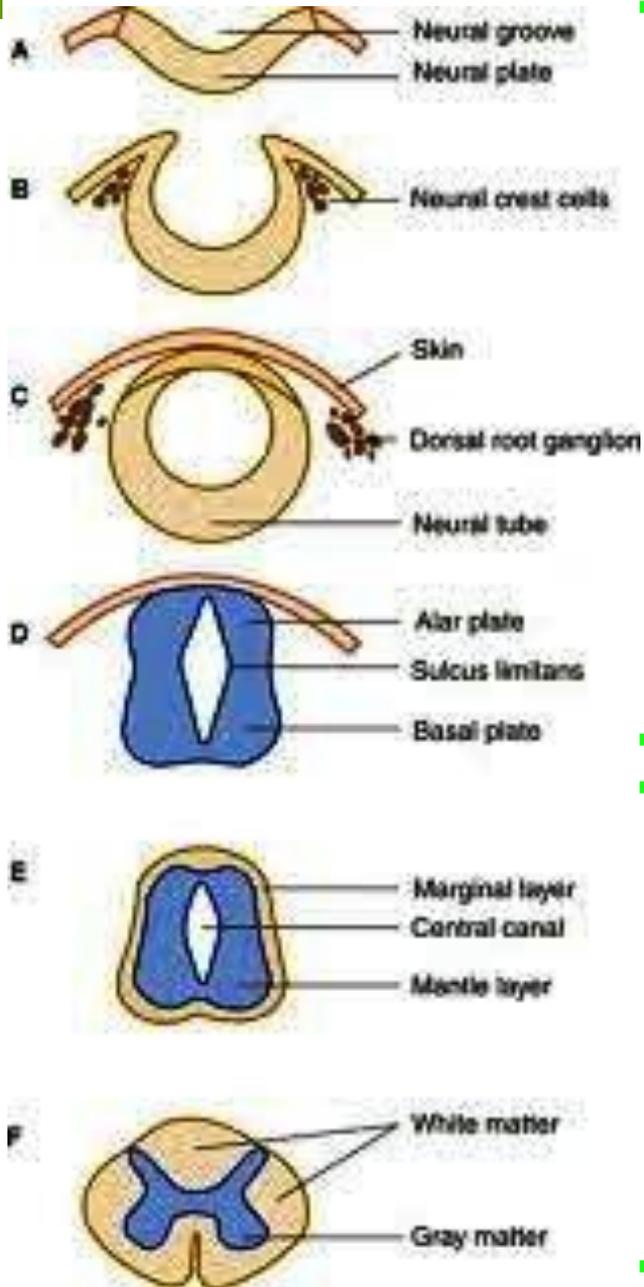
Density and size of neurons



Proportion of neurons in the forebrain



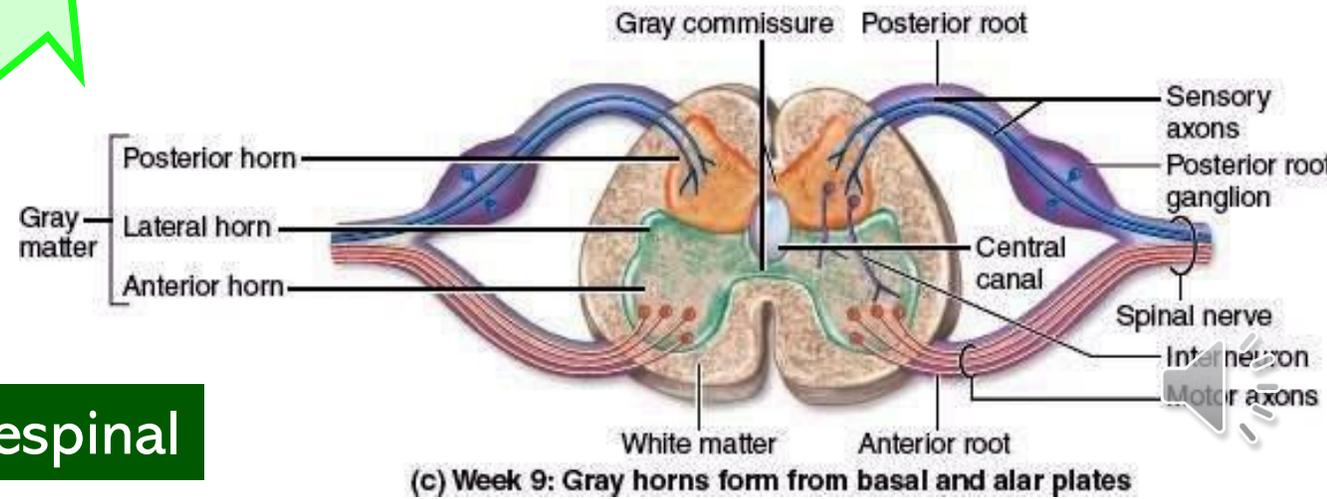
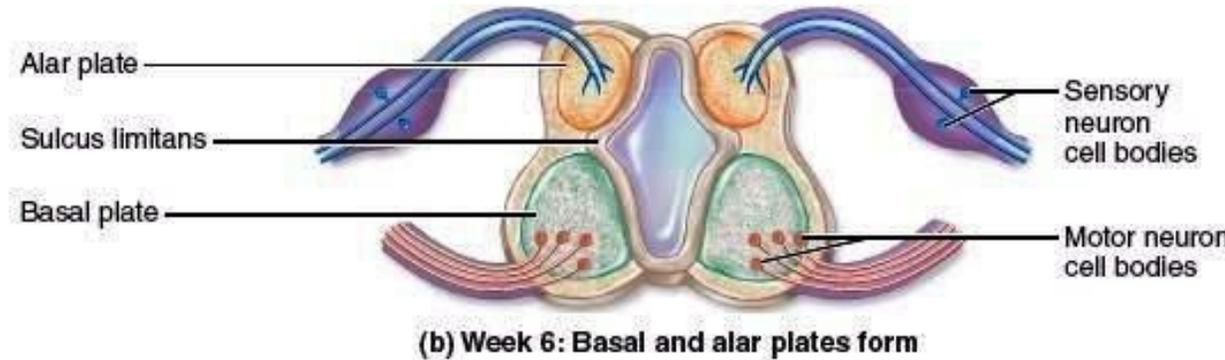
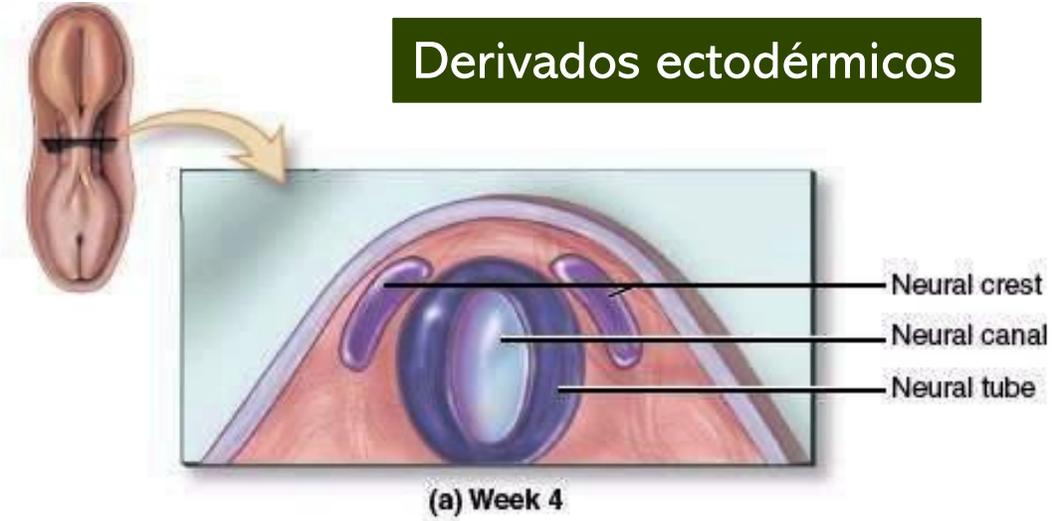
Derivados ectodérmicos

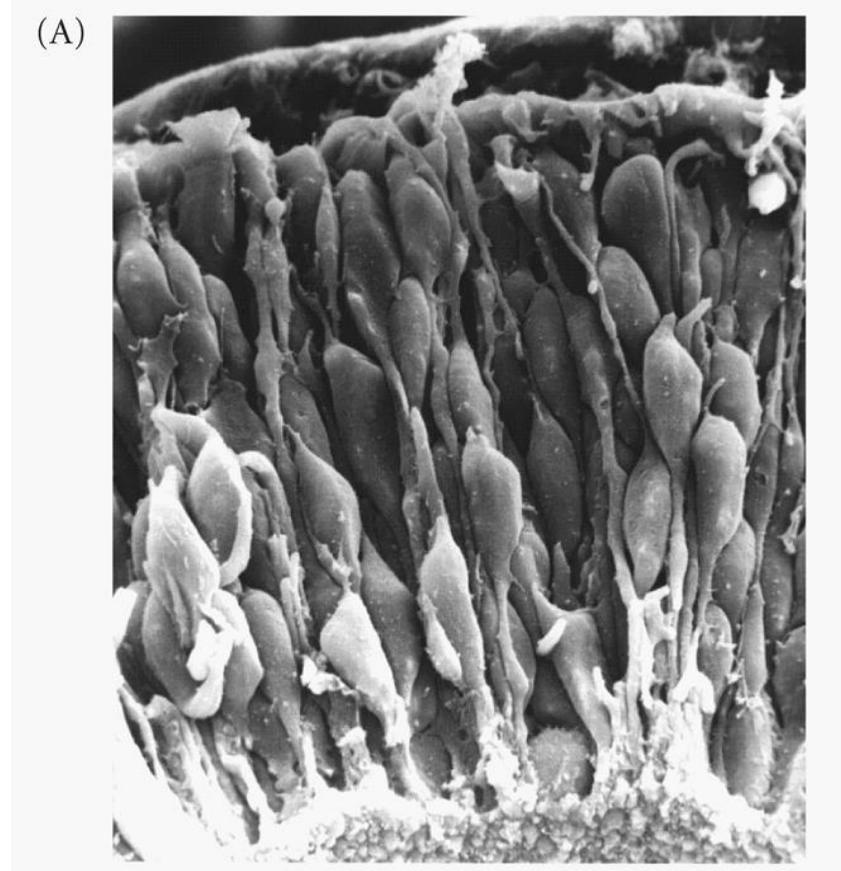
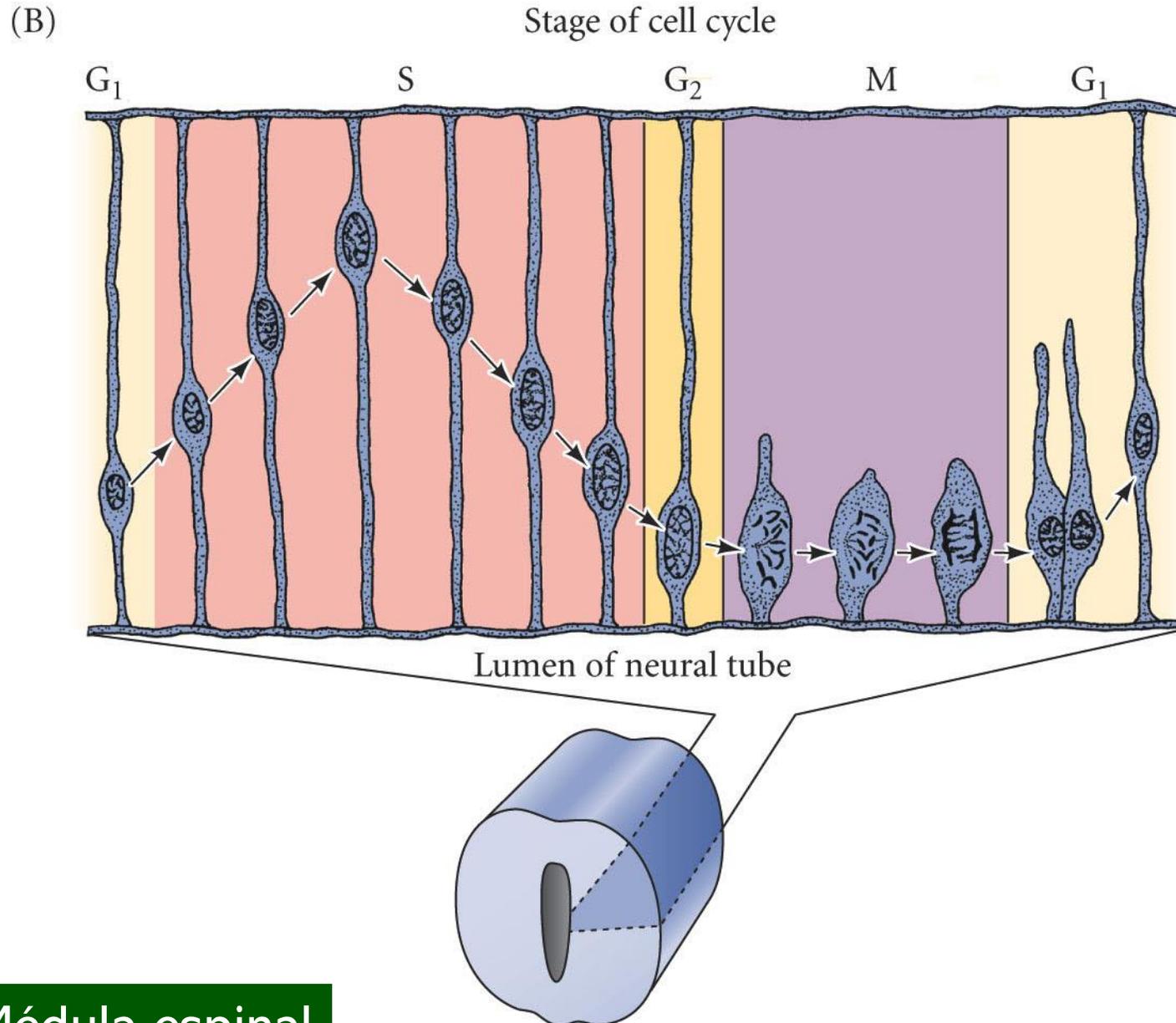


Formación del tubo neural

Desarrollo de la médula espinal

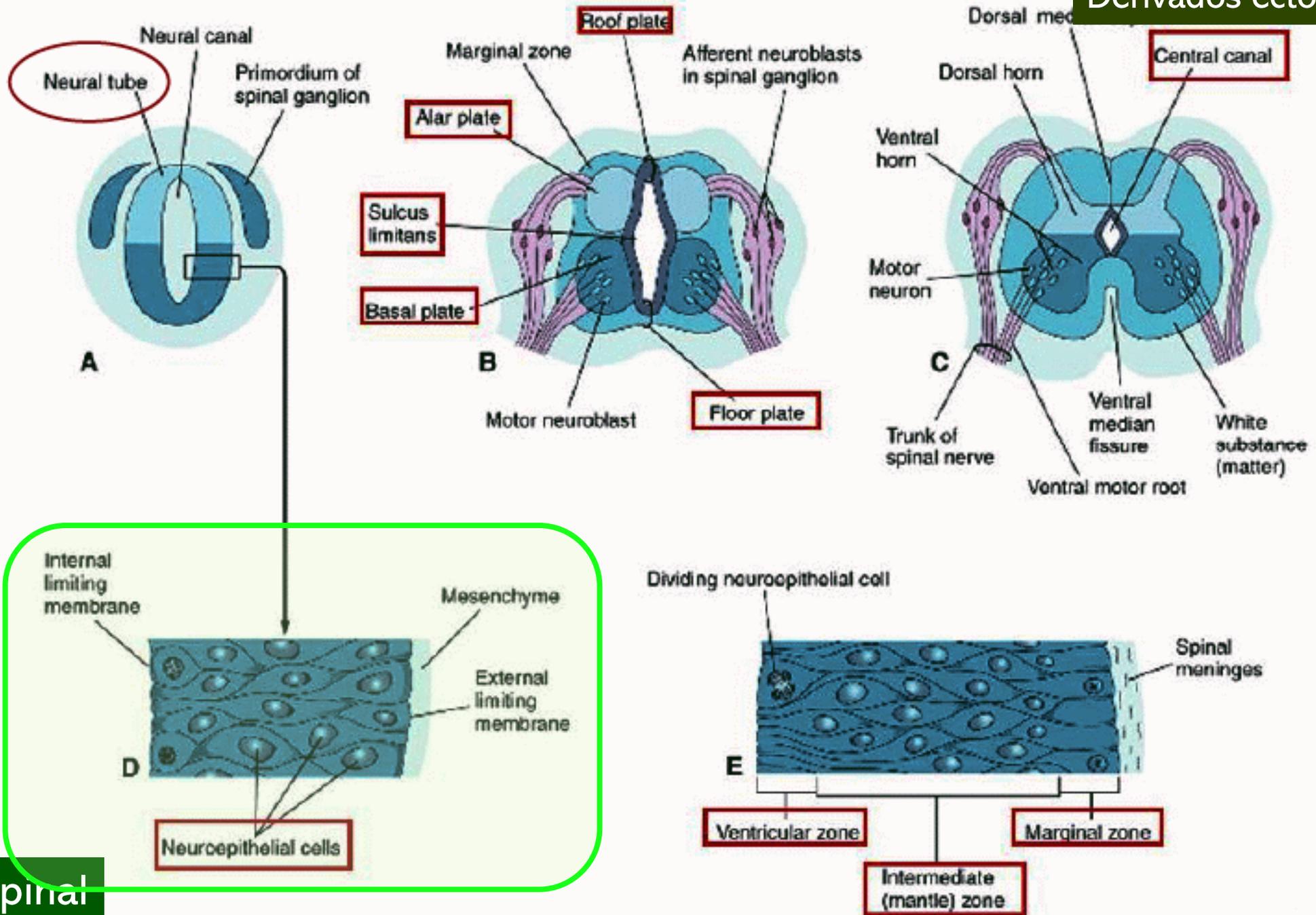
Médula espinal

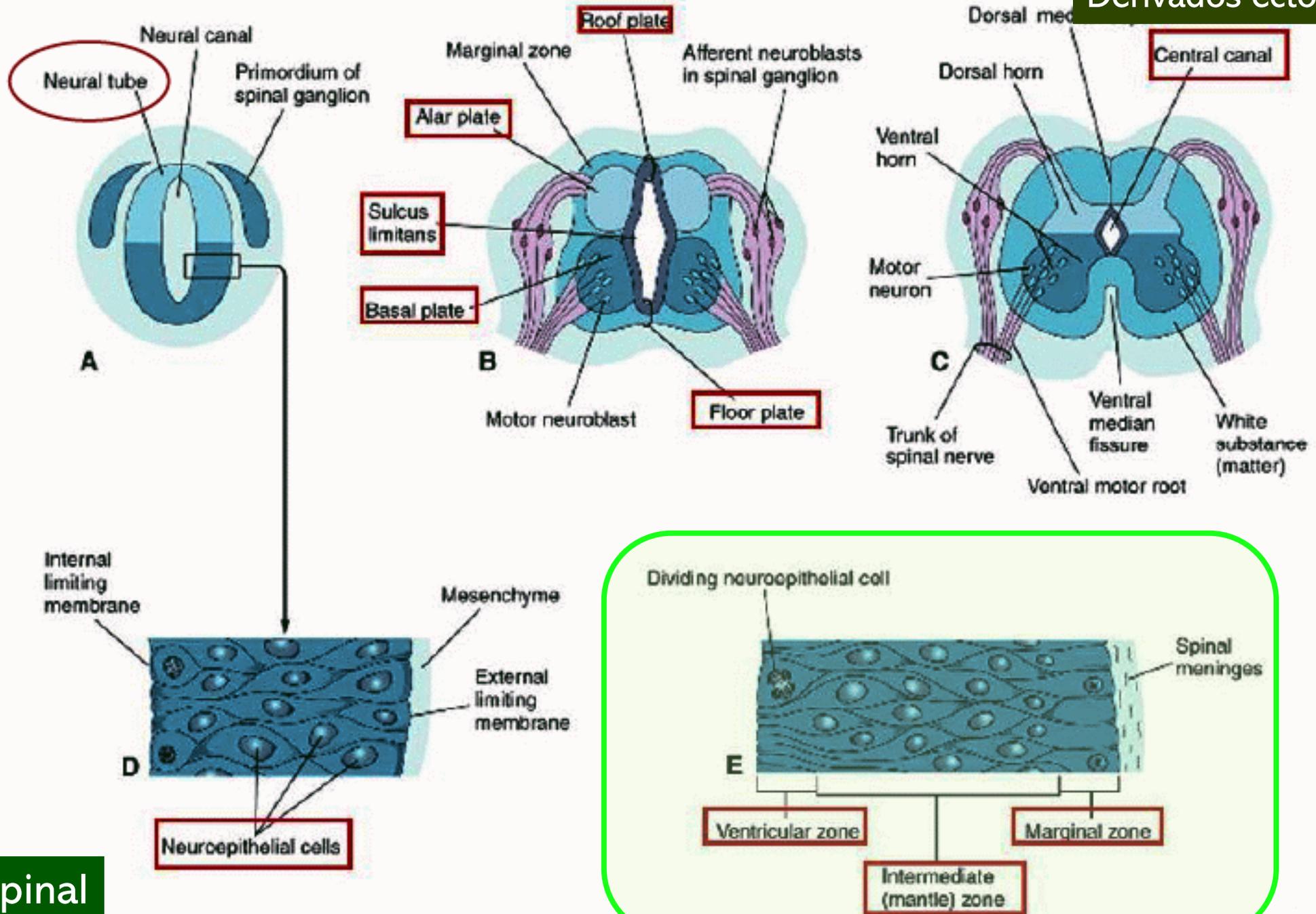


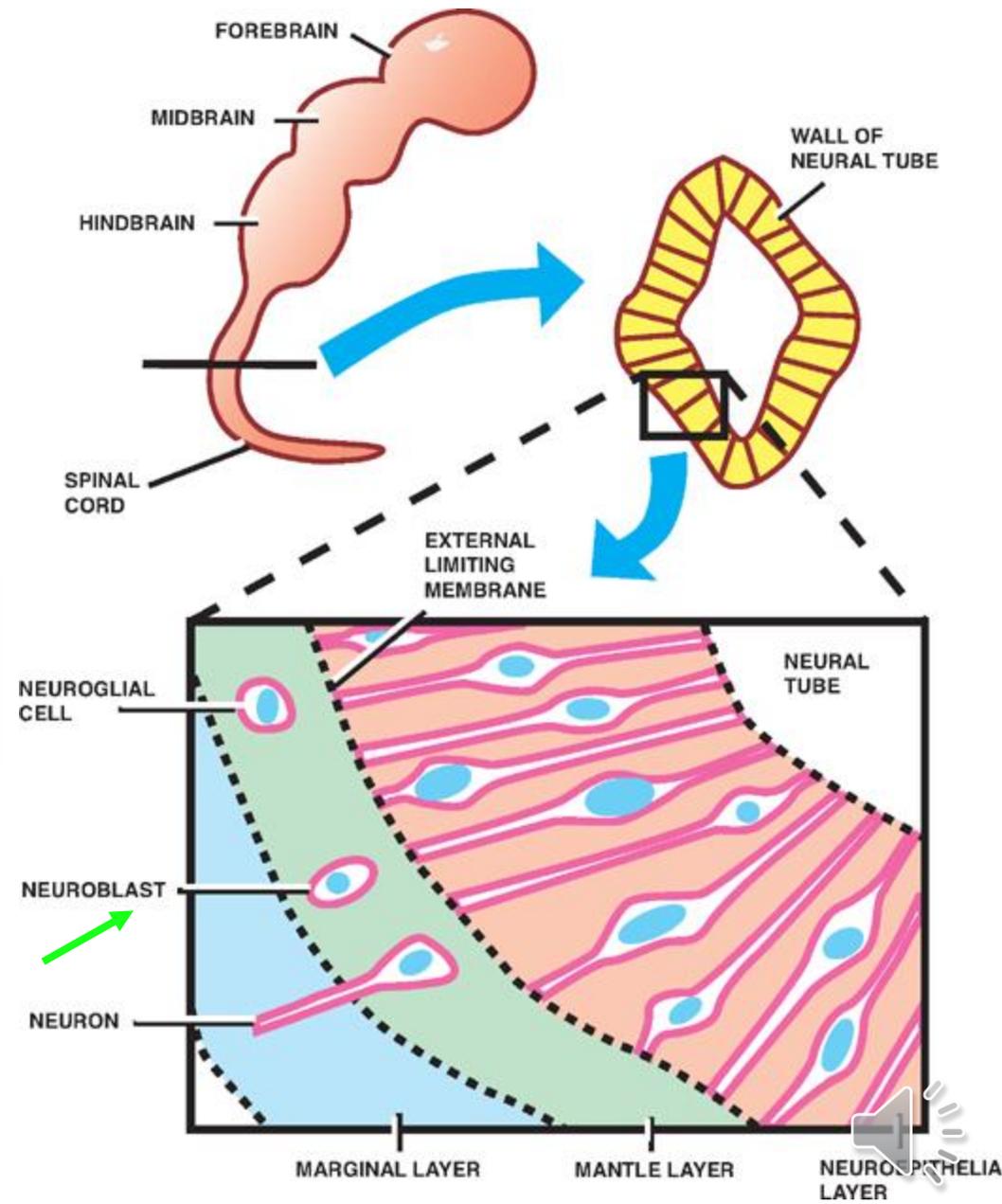
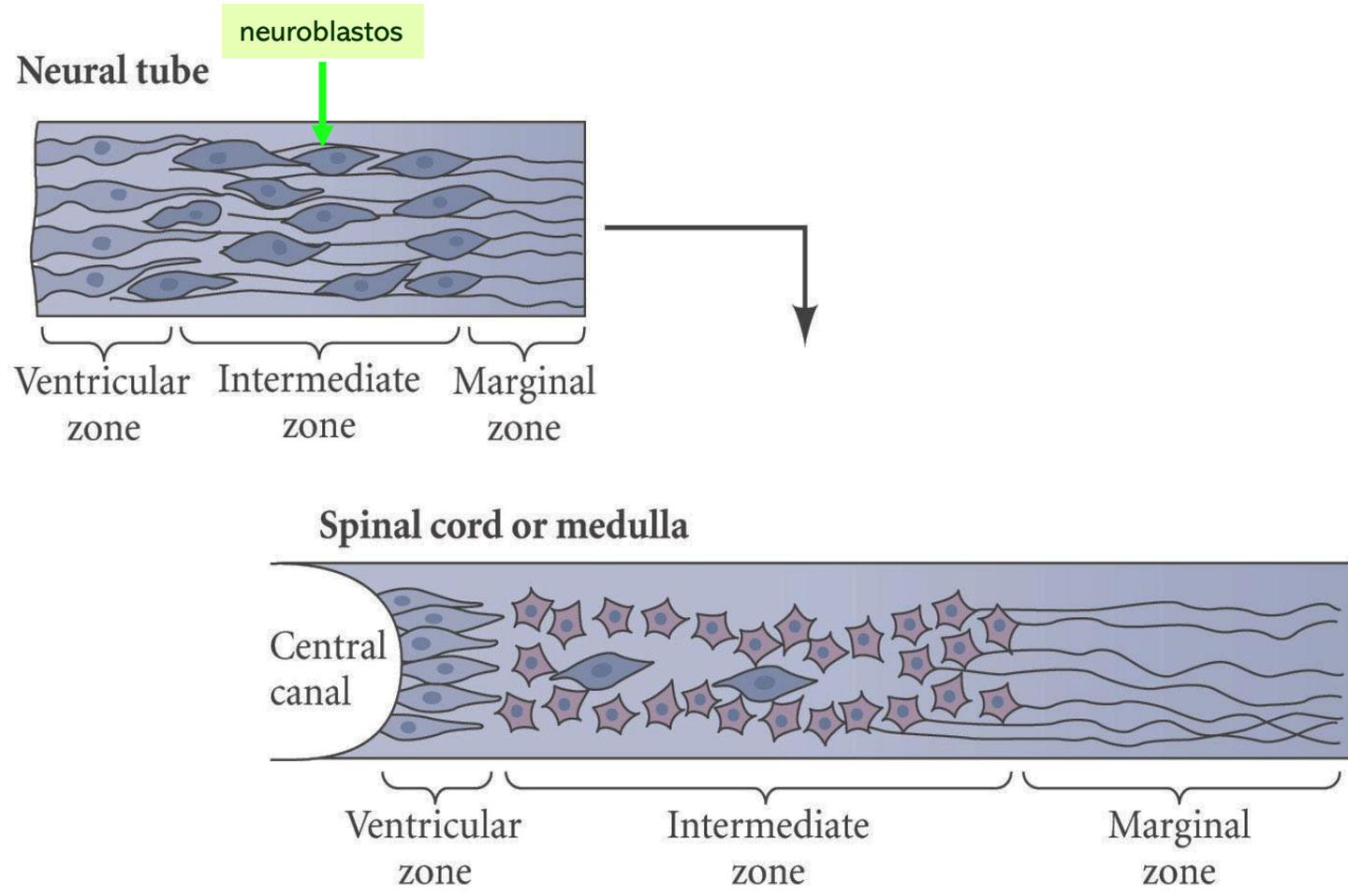


Médula espinal



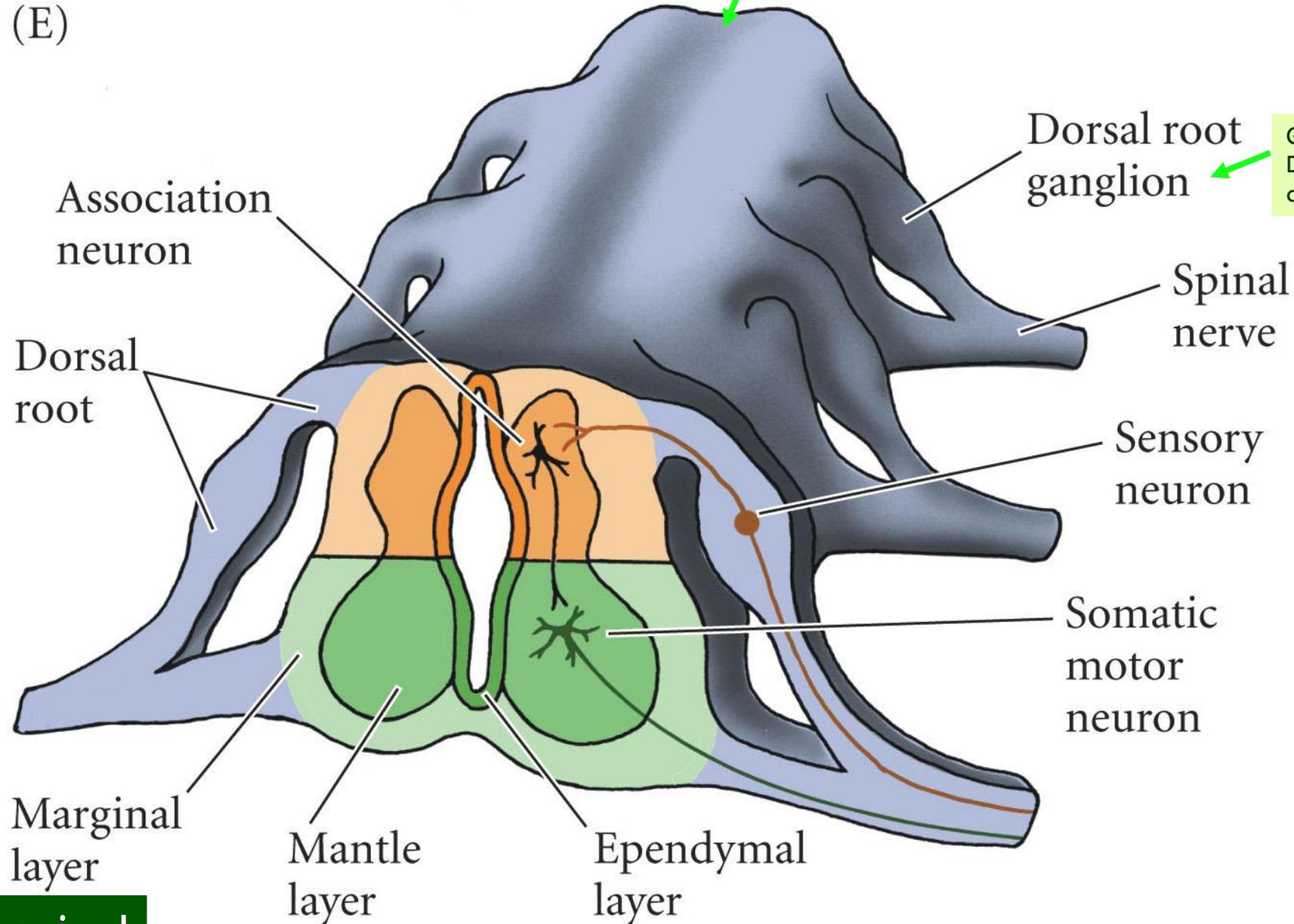






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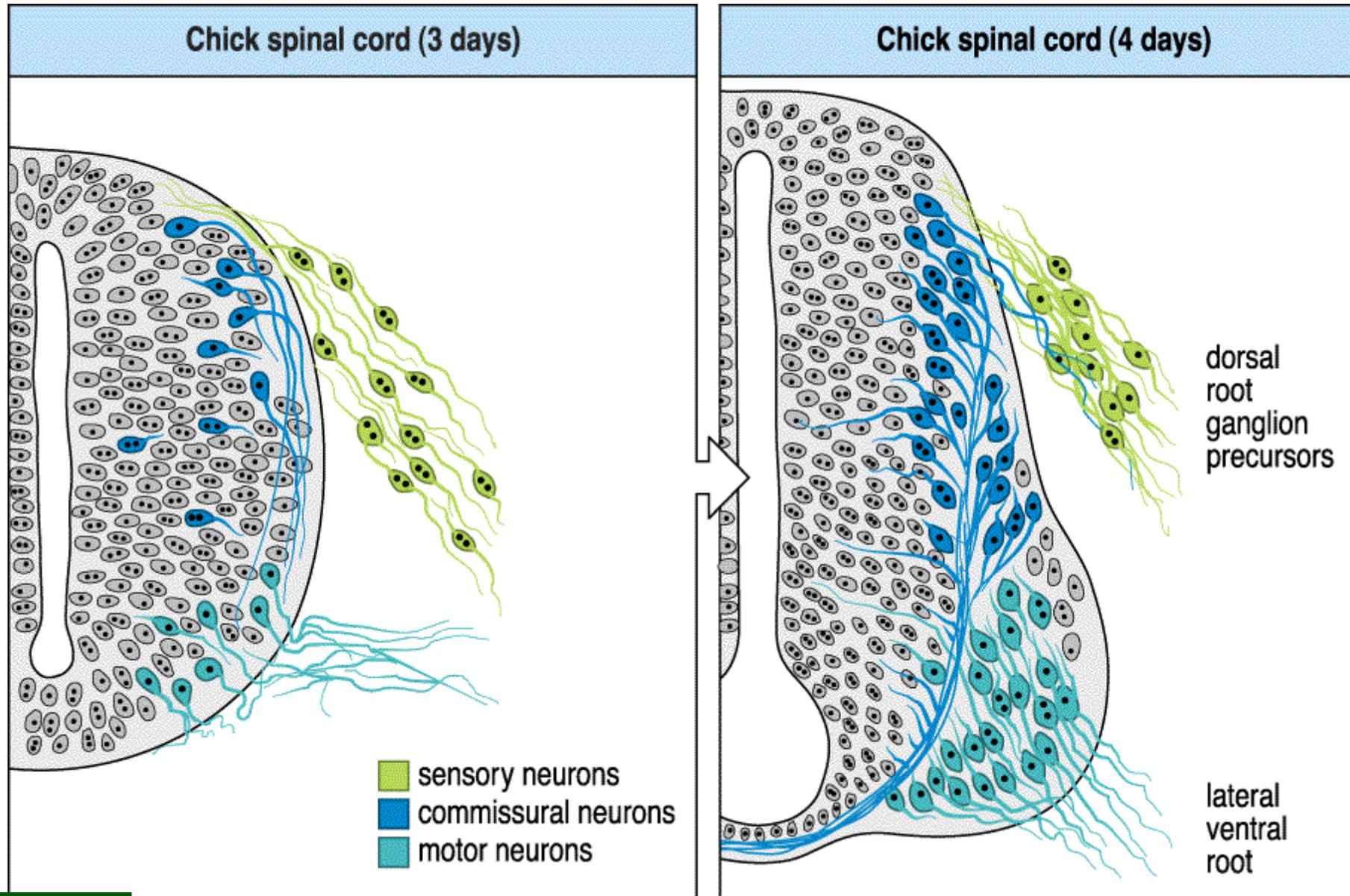
(E)



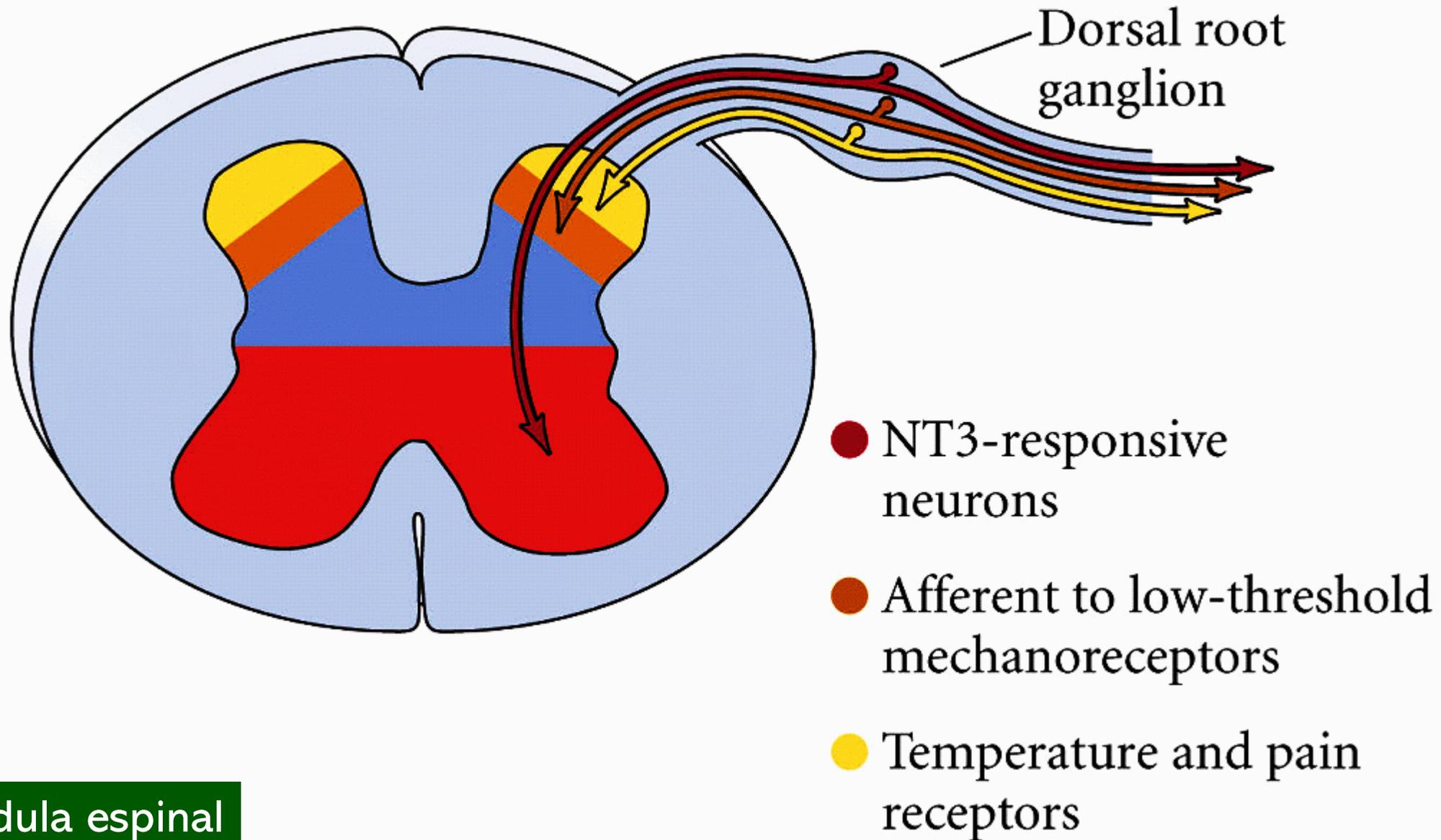
Ganglios radiculares dorsales
Derivados de las células de la cresta neural

Médula espinal

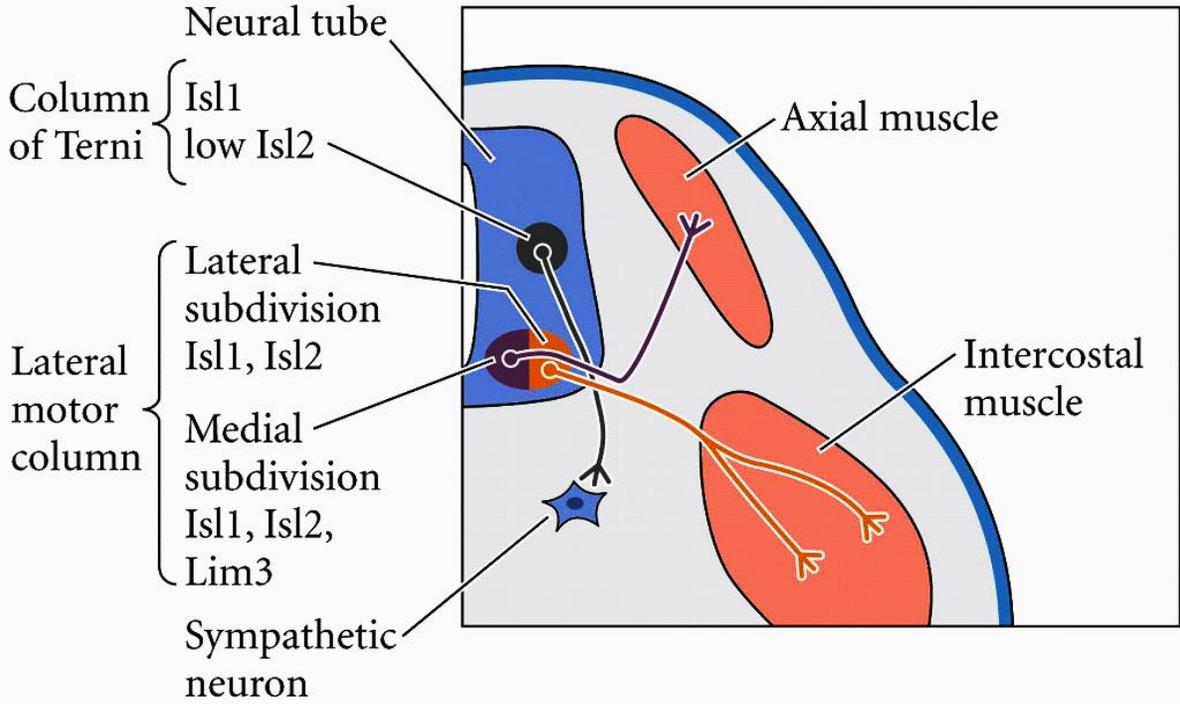




(A)

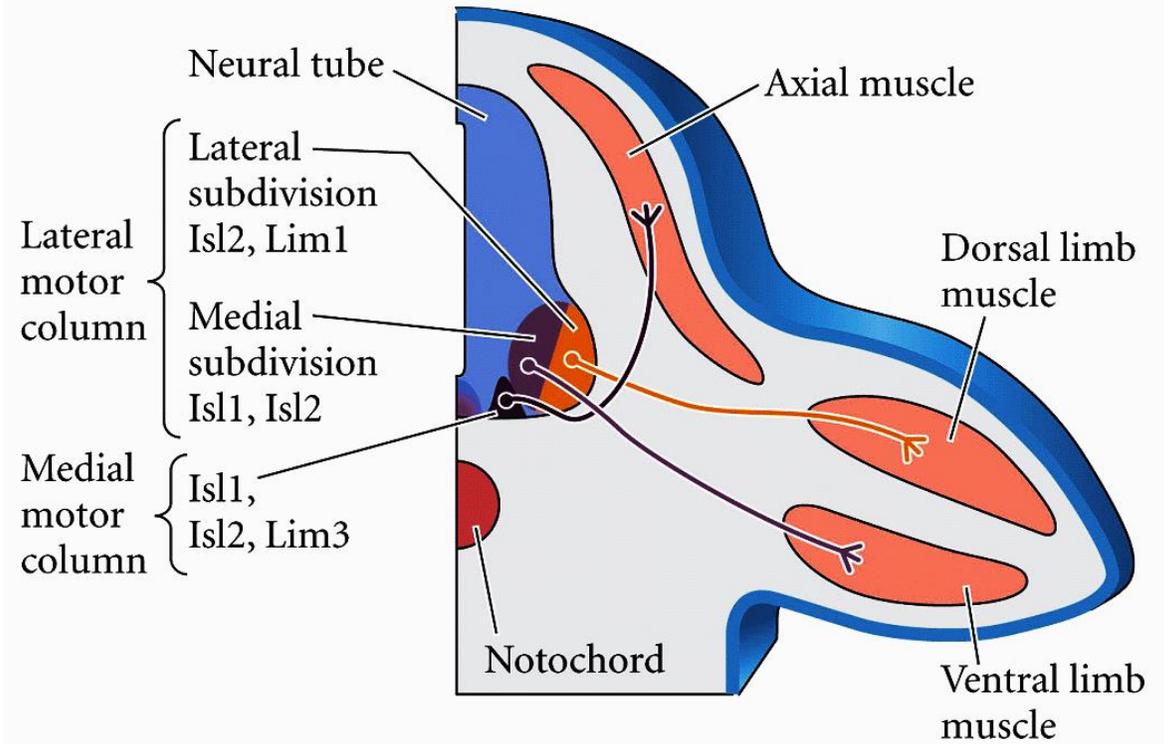


(A) Thoracic



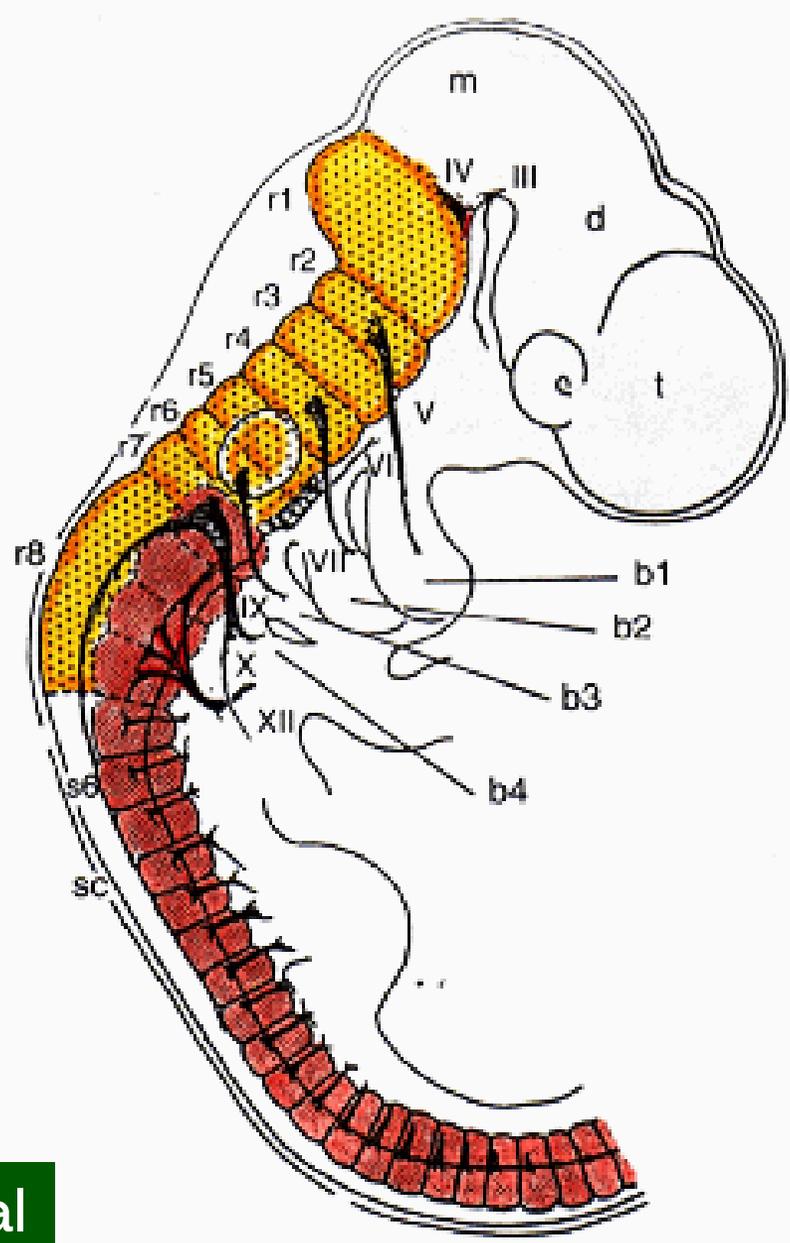
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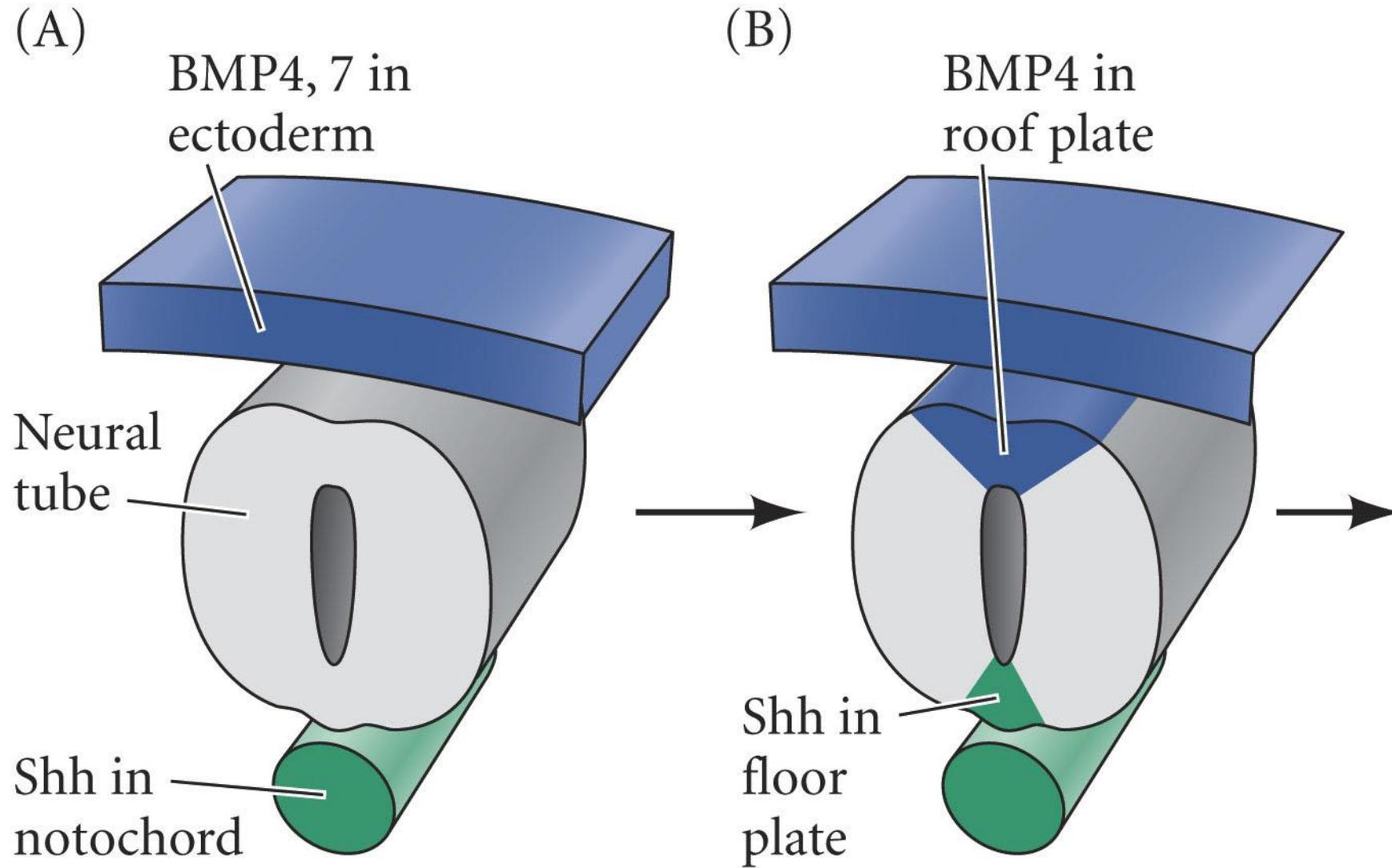
(B) Hindlimb

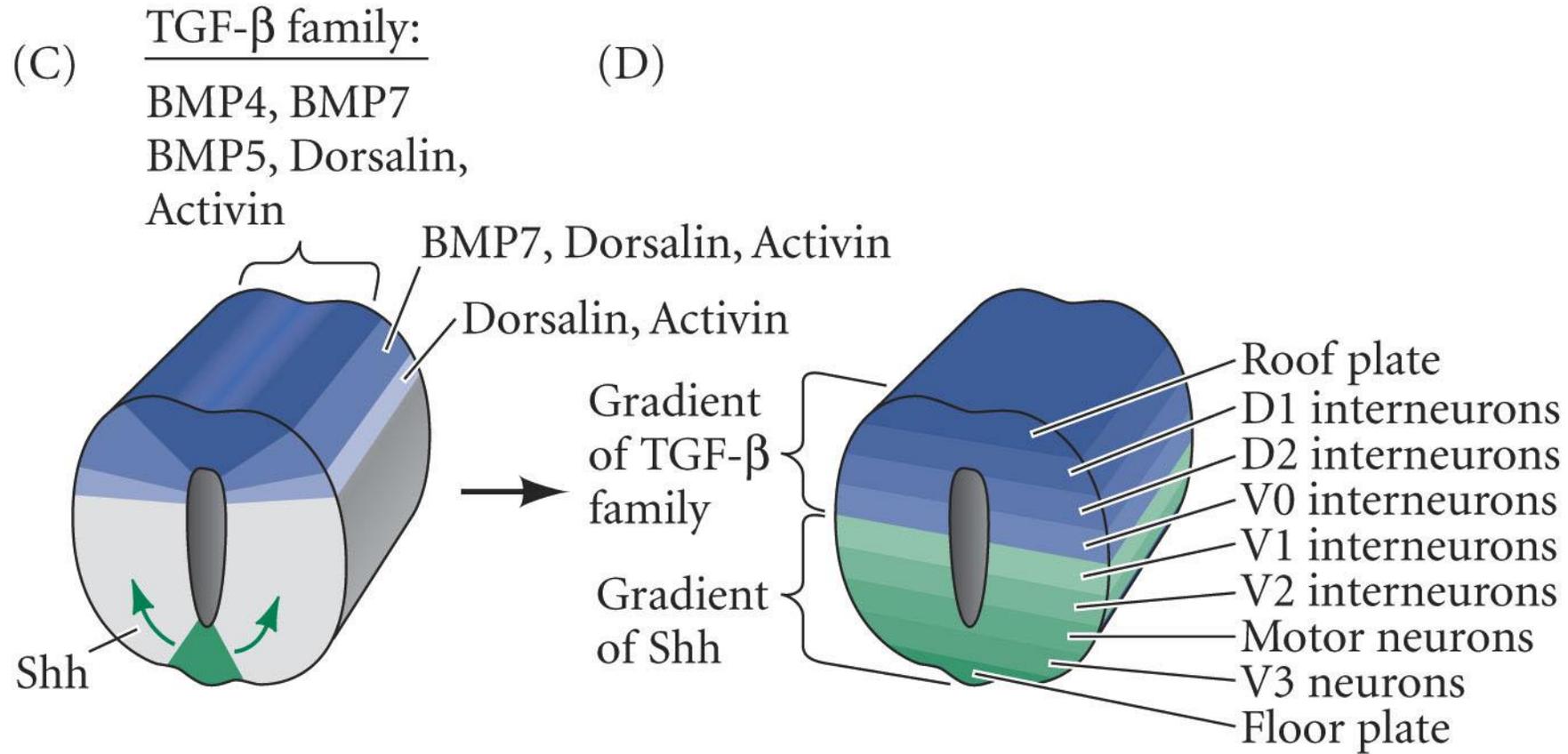


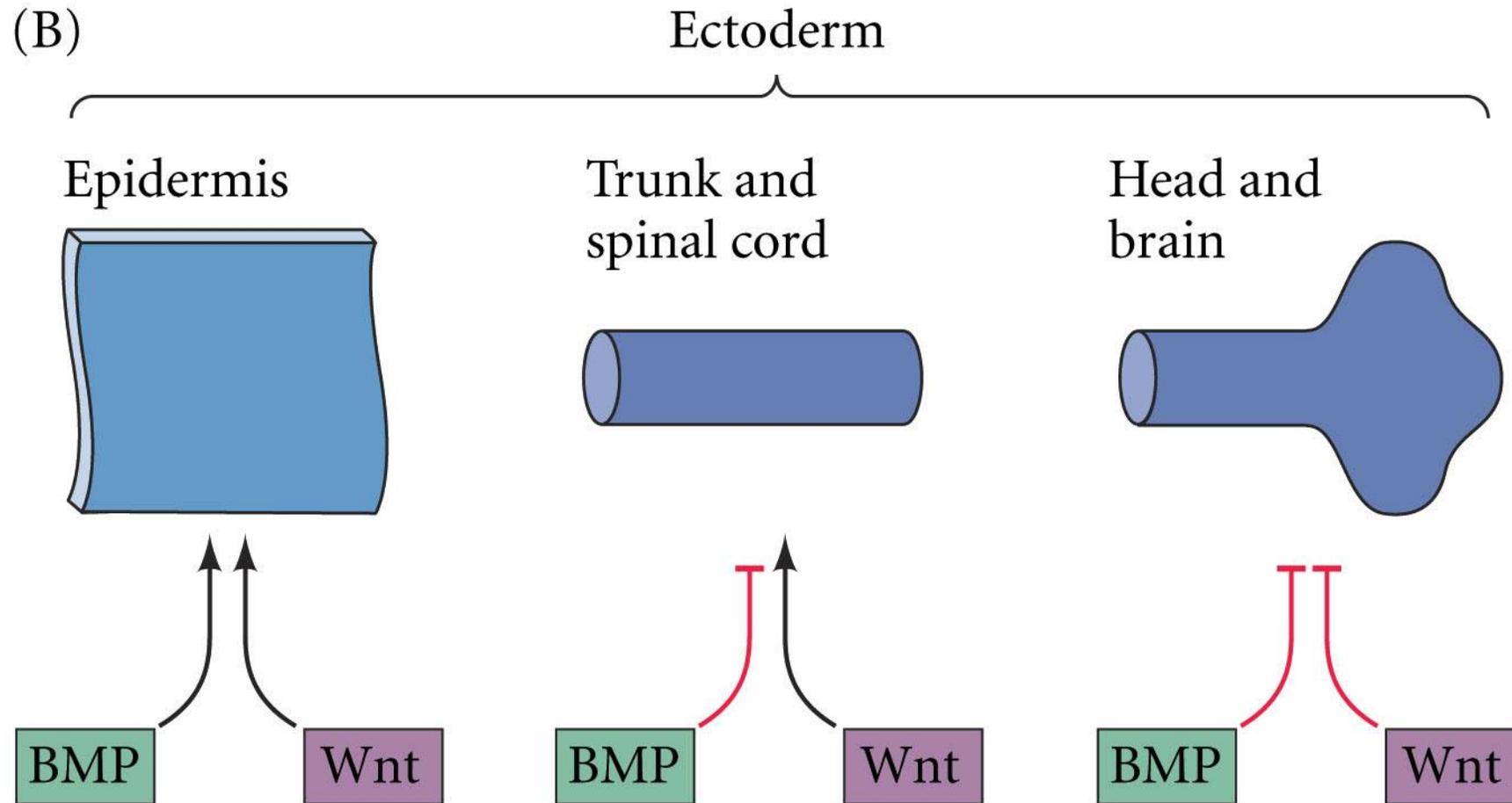
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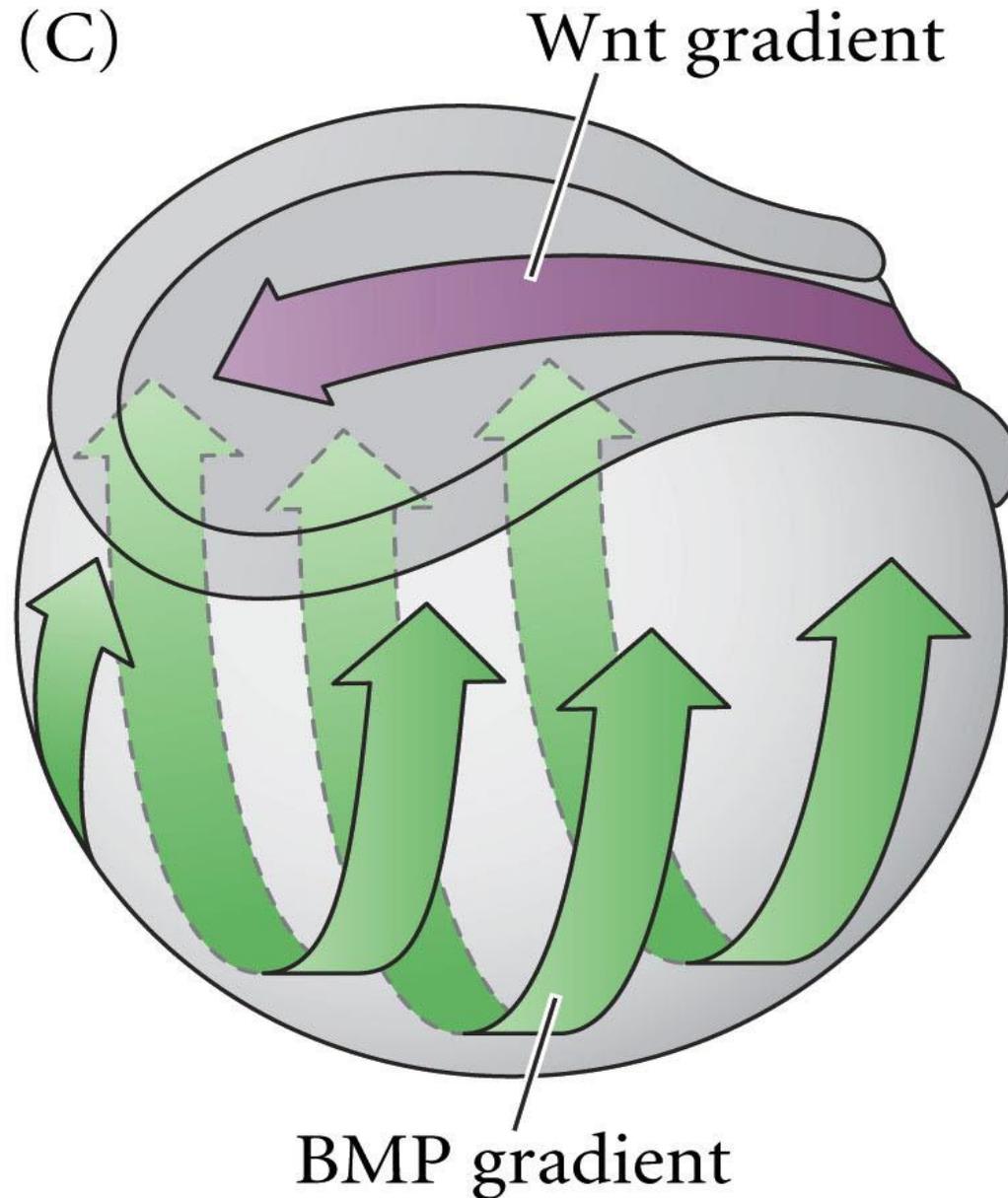












Los productos de Wnt señalan la vía y la dirección postero-anterior del tubo neural



