Brain Organisation

The "lore"

Brain (B) and Spinal cord (SC) dev from ectodermal neutral tube

(Anterior pt of neutral tube + associated neural crest tis) expands

neural crest tis

- Bones of skull
- associated connective tis
- meningeal membr

Wall of diff B

hollow part

- nerve tis
- ventricle (fluid-filled space)

Constriction of above ^ appear

Create

Subdivided into **second B vesicle:**

Subdiv

3 regions called **primary B vesicles**:

1. Prosencephalon (Pro = Front)
2. Mesencephalon (Mes = Mid)
3. Rhombencephalon (Rum = Ass)

1. Prosencephalon **[forebrain]** into (a. Telencephalon & b. Diencephalon)
2. Rhobencephalon **[hindbrain]** into (a. Metencephalon & b. metencephalon)

give rise

MesB **[Midbrain]**

- **give rise to itself**
- **cerebral aqueduct (aqueduct of midb)**

myelB (myle = marrow)

- **medulla oblongata**
- **lower part of ventricle**

give rise

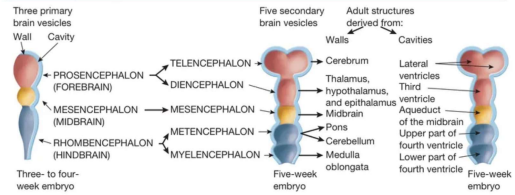
Telencephalon (tel - distance; -encephalon = B)

- **cerebrum**
- **lateral ventricles**

DiB

- **thalamus,**
- **hypothalamus,**
- **epithalamus**
- **third ventricle**

TABLE 14.1 Development of the brain



4 Major Region

Cerebrum

- supported on Diencephalon + brain stem

Diencephalon

- superior to brainstem

Cerebellum

- posterior to brainstem

Brainstem

- Continous with SC
- Consist of
  - midB
  - Pons
  - Medulla Oblongata

Posterior

Anterior