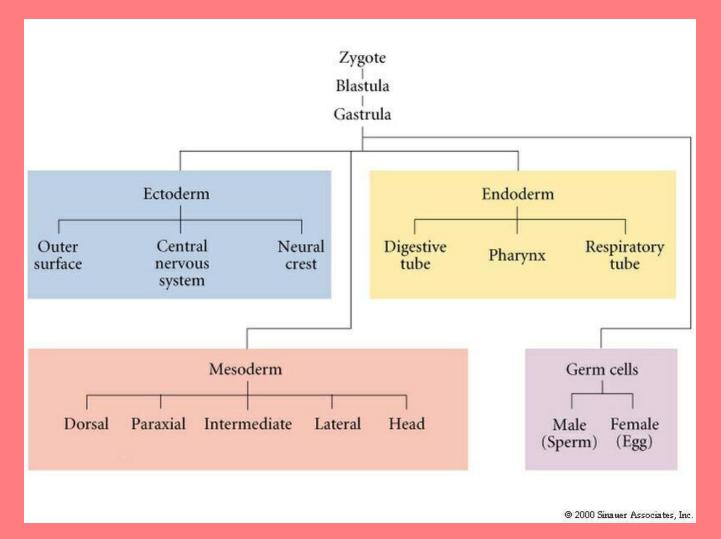
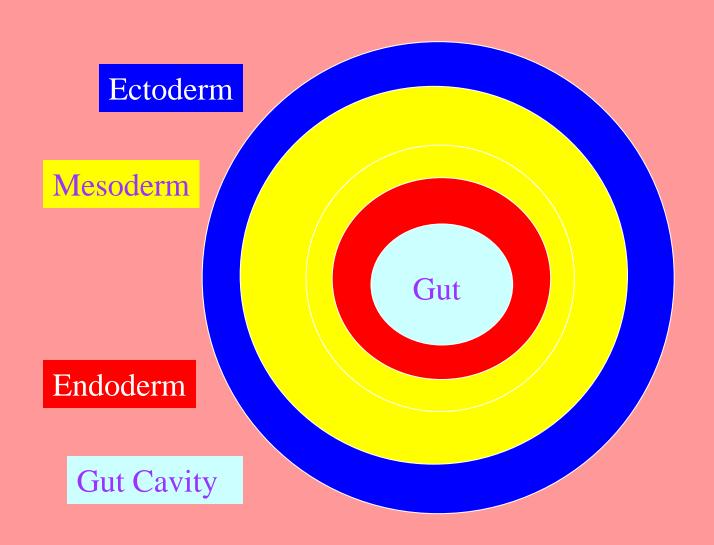
# Overview Vertebrate Developmental Anatomy

# What Do Layers Formed at Gastrulation Give Rise To?



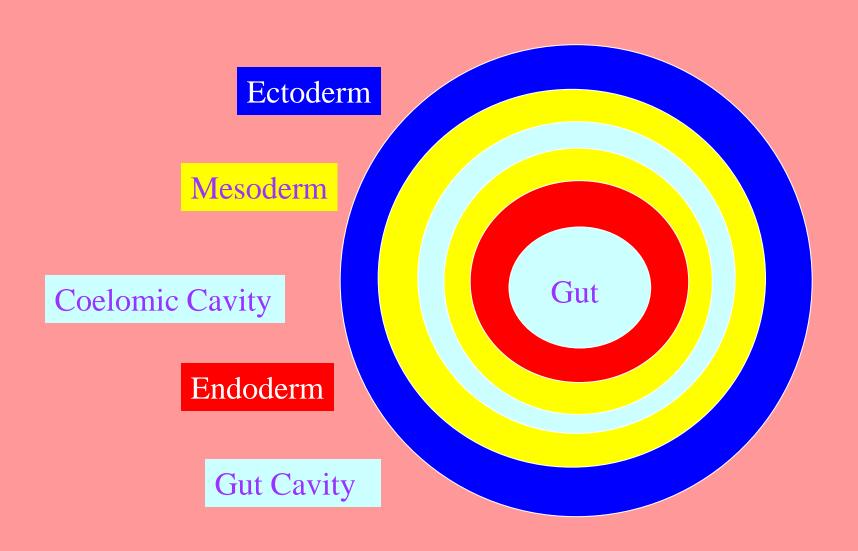
## Relationship of Tissue Layers

Transverse Section

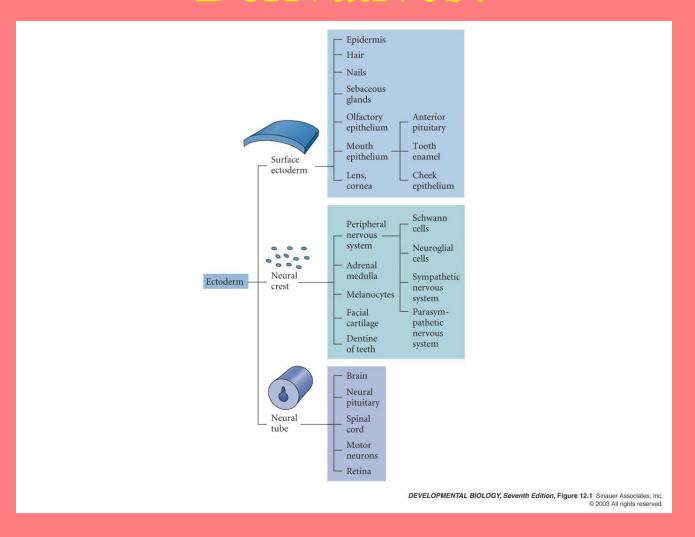


#### Split of Mesoderm Creates Coelom

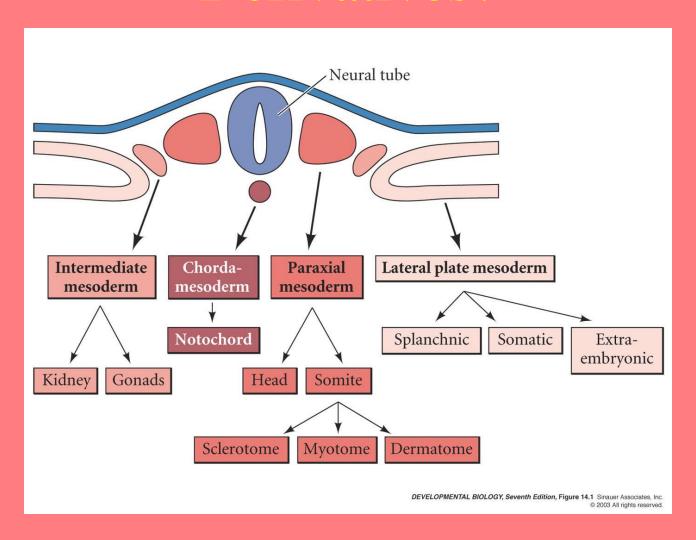
Transverse Section



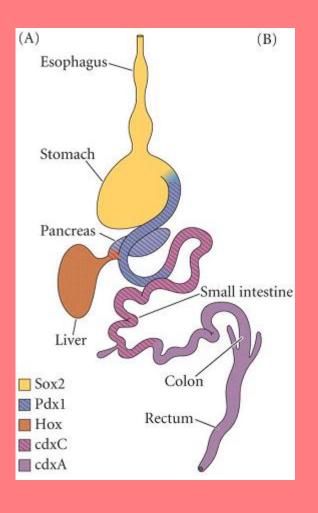
# What Are the Major Ectodermal Derivatives?



# What Are the Major Mesodermal Derivatives?



# What Are the Major Endodermal Derivatives?



Anterior

Posterior

## Some Tissues Form From Two Layers

- Respiratory tract, various glands
  - Lining endo
  - Outer part meso
- Epidermis
  - Outer skin, hair, nails *ecto*
  - Dermis *meso*

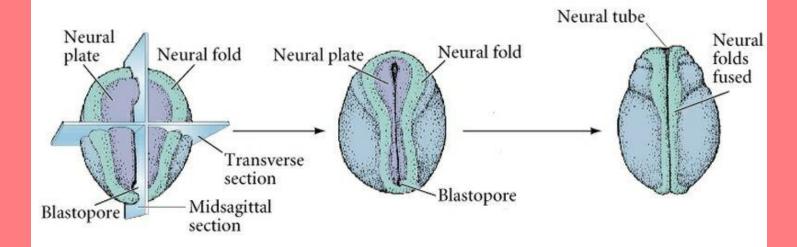
# Vertebrate Developmental Anatomy: Ectoderm I

## Amphibian Neurula

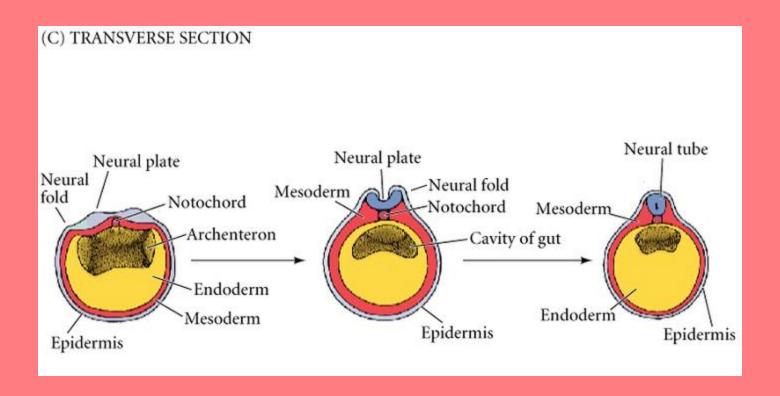


## Frog Neurulation

(A) DORSAL SURFACE VIEW

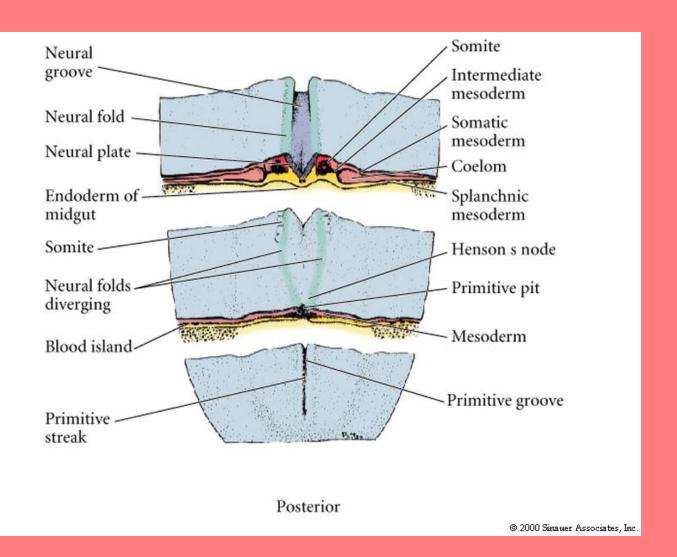


### Frog Neurulation

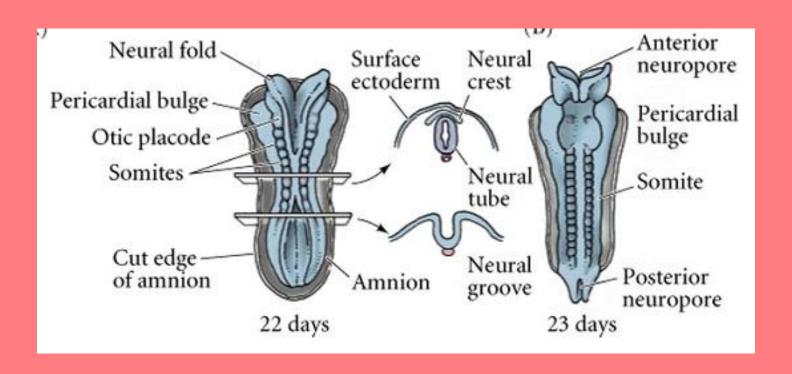


Folding of plate into tube then subdivided into brain and spinal cord

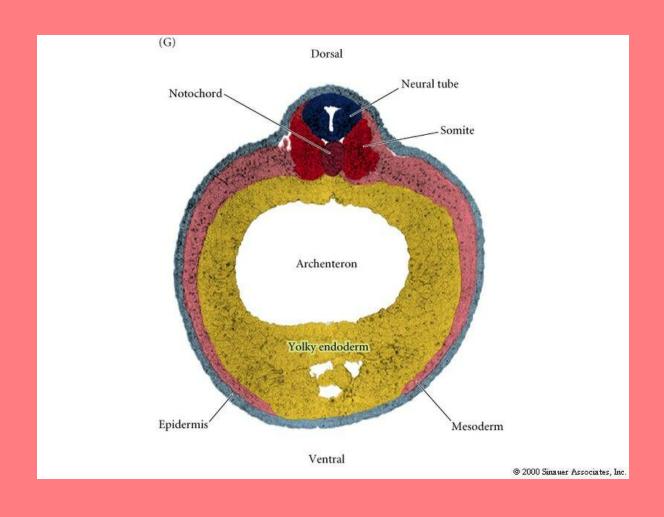
### Chick Neurulation



#### Human Neurulation



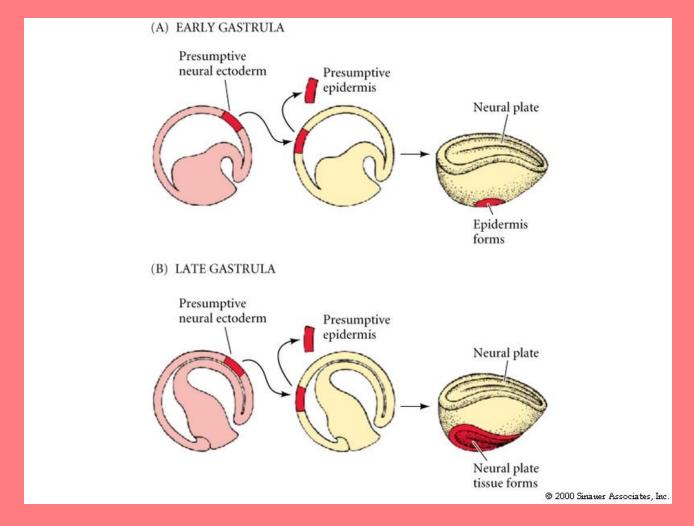
## Section Through Frog Neurula



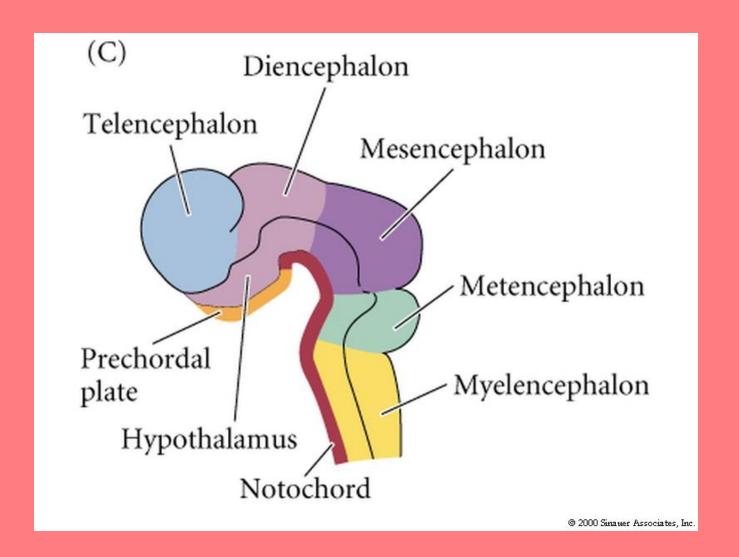
#### Neural Tube and Notochord



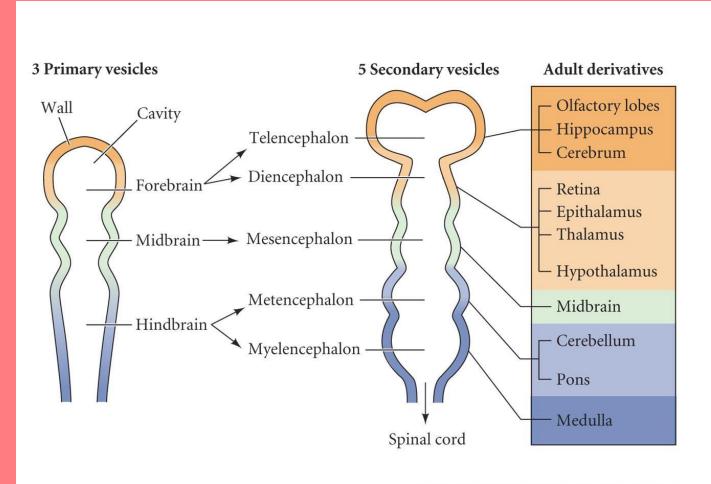
# Determination of Nervous System in Amphibians



#### Further Subdivision the Brain



# Major Brain Derivatives (Human)



### Brain Development Summary

