

Development Overview
 Comparative Vertebrate Anatomy

Zygote	Morula	Blastula	Gastrula	Neurula	Post-Neurula	Derivatives
Single Cell	Solid Mass of Cells	Hollow Mass of Cells	Ectoderm	Neurectoderm (Neural Plate/Groove/Tube)	Neural Tube	brain & spinal cord, post. pituitary, motor components of cranial nerves, vent. rt. nerves
				Neural Crest (Migratory Cells)	Superficial Neural Crest	pigment cells, papillar cells, (possibly dermatocranial precursor cells)
					Deep Neural Crest	some cranial and all post-cranial ganglionic nerves, splachnocranium, chondrocranium, chromaffin cells
				Generalized Ectoderm	Epidermal Ectoderm	epidermis, oral cavity & rectum, anter. pituitary, enamel organ
			Epidermal Placodes		olfactory, vestibular, gustatory & lateralis receptors; lens of eye; sensory components of cranial nerves	
			Chordamesoderm	Notochord	Notochord	persists or contributes to intervertebral discs
			Mesoderm	Somites	Dermatome	dermis of skin
					Sclerotome	vertebrae & ribs
					Myotome	most skeletal muscles, some skeletal elem.
				Intermediate Mesoderm	Intermediate Mesoderm	nephron of kidney, gonadal ducts, some urogenital ducts
			Lateral Plate Mesoderm	Splanchnic Mesoderm	heart, circulatory system, coelomic mesenteries; visceral muscles	
				Somatic Mesoderm	parietal peritoneum, minor contribution to limb muscles	
Endoderm	Endoderm	Endoderm (many diverticula & pharyngeal openings)	liver, pancreas, digestive tract, urinary bladder, trachea & lungs/swimbladder, germ cells			