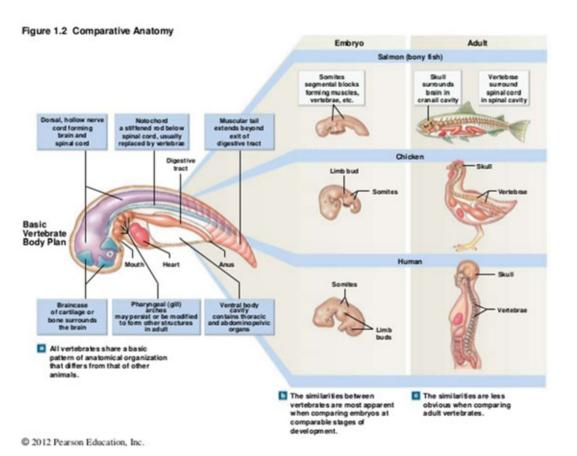
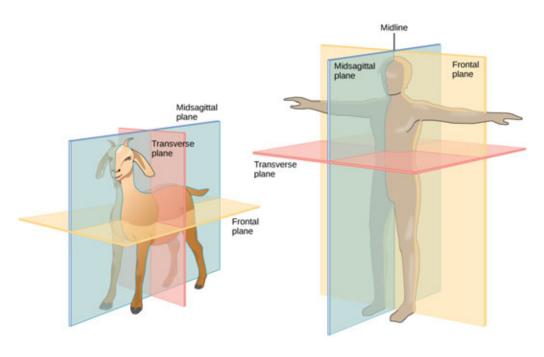


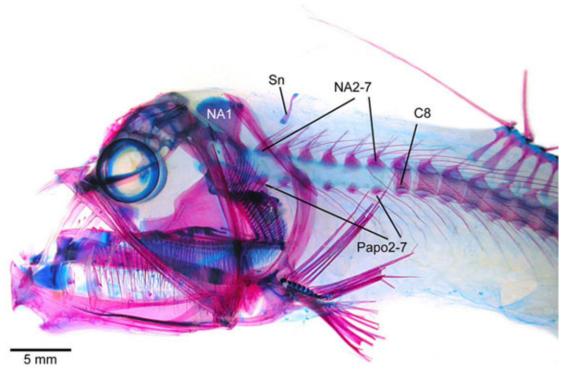
Basic Chordate Body Plan



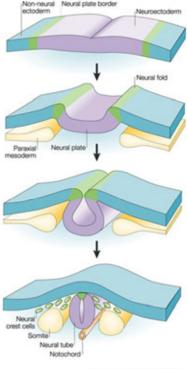
Basic Vertebrate Body Plan



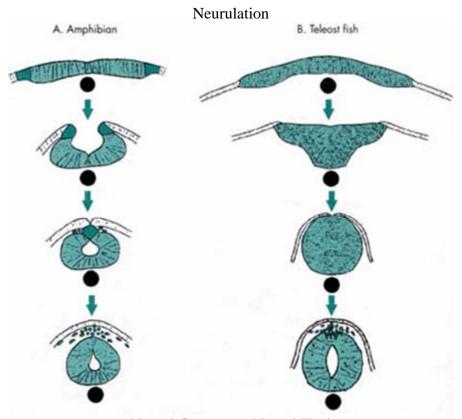
Anatomical Planes



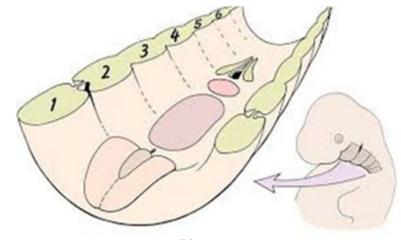
Notochord and Vertebral Column

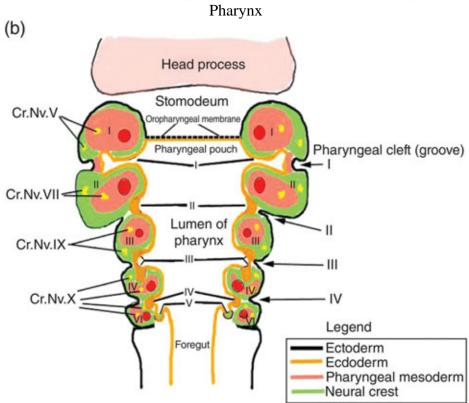


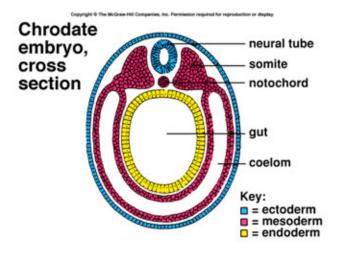
Nature Reviews | Neuroscience

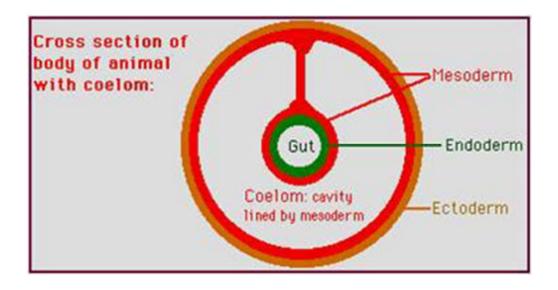


Neural Groove vs. Neural Keel

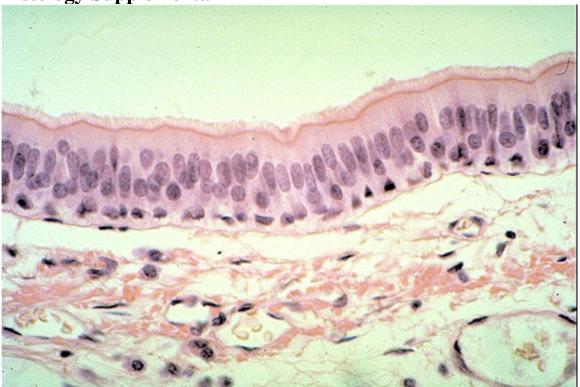




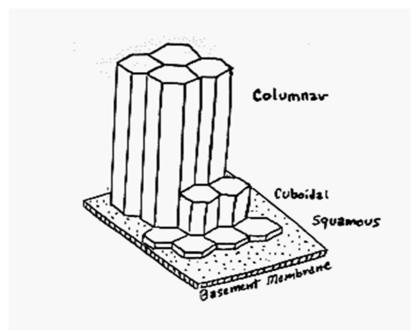




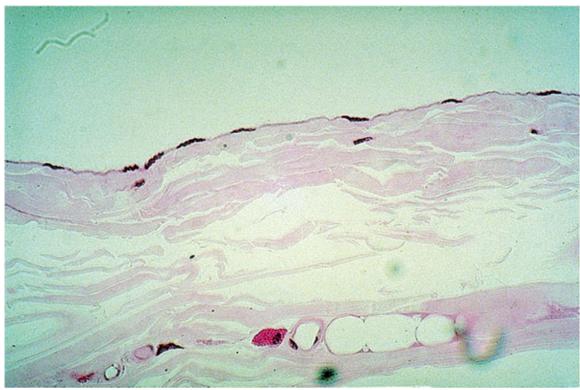
Histology Supplemental



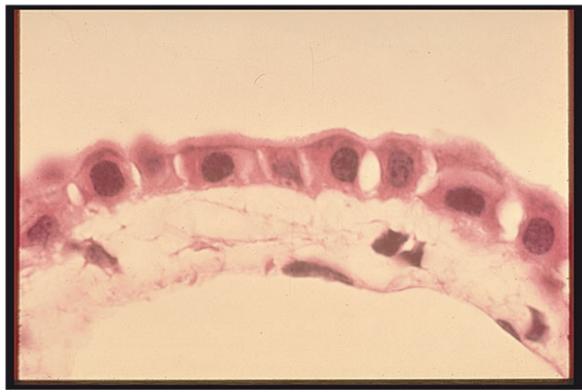
Epithelium showing basement membrane



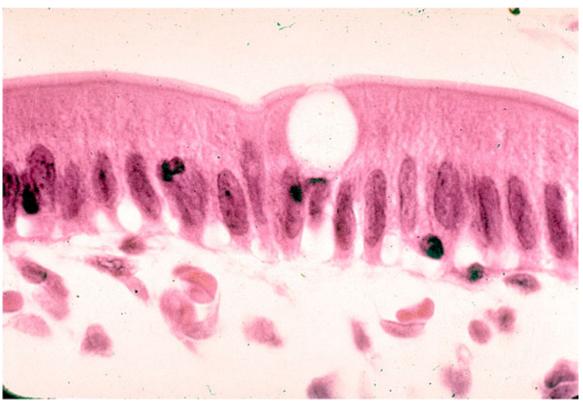
Epithelial Cell Shapes



Simple Squamous Epithelium

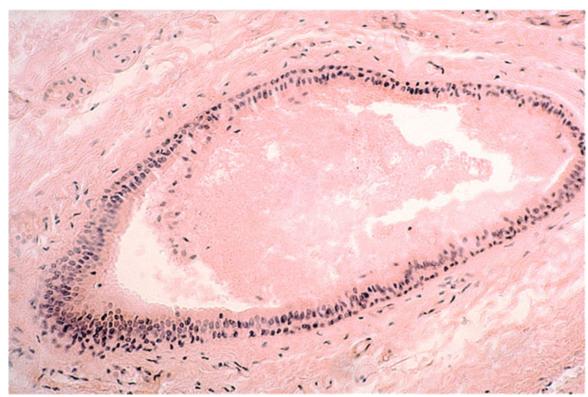


Simple Cuboidal Epithelium

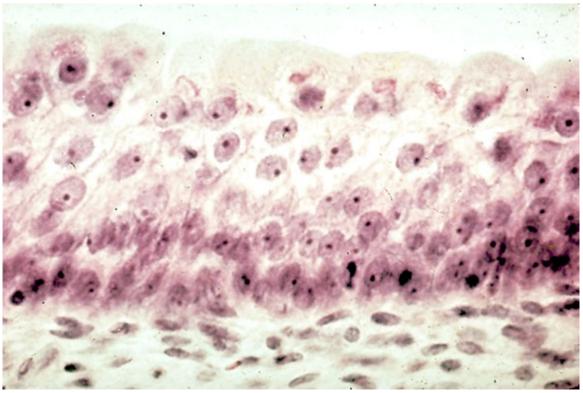


Simple Columnar Epithelium Showing Microvillae and Goblet Cells

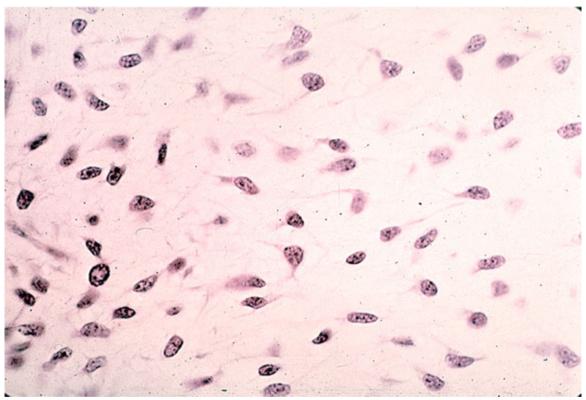




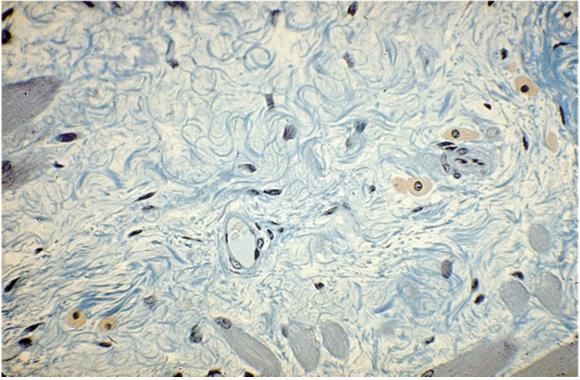
Stratified Columnar Epithelium



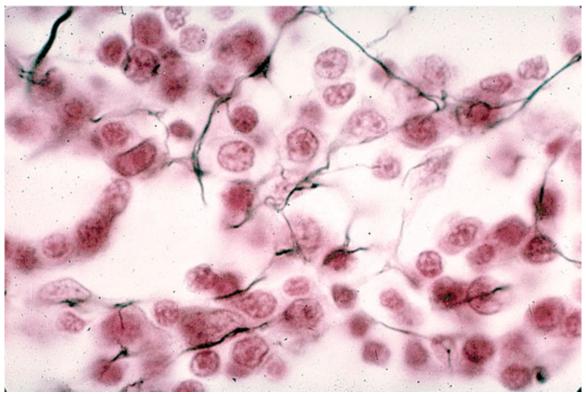
Transitional Epithelium



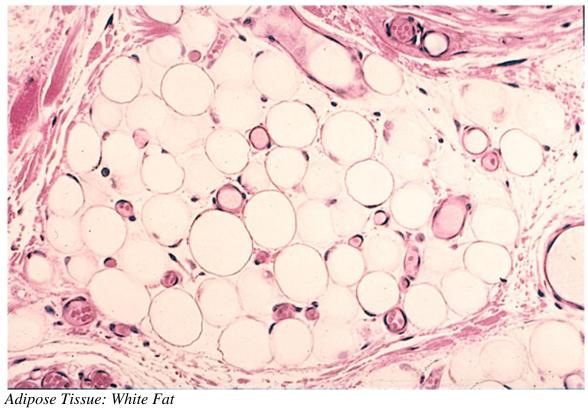
Mesenchyme

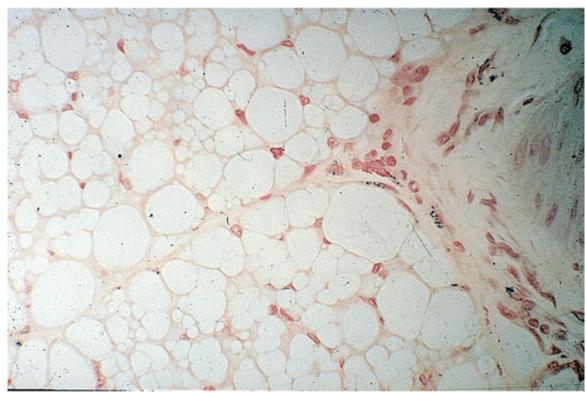


Areolar Connective Tissue (c.t.)

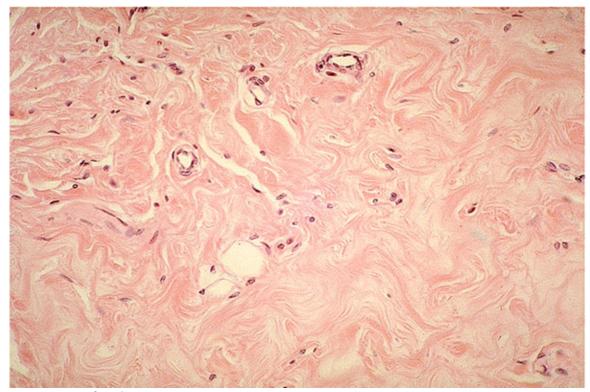


Reticular C.T.





Adipose Tissue: Brown Fat



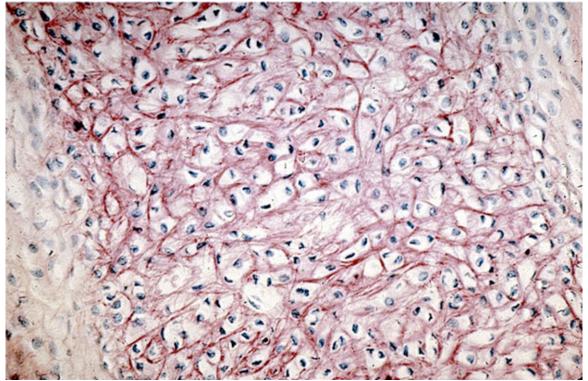
Dense Irregular C.T.



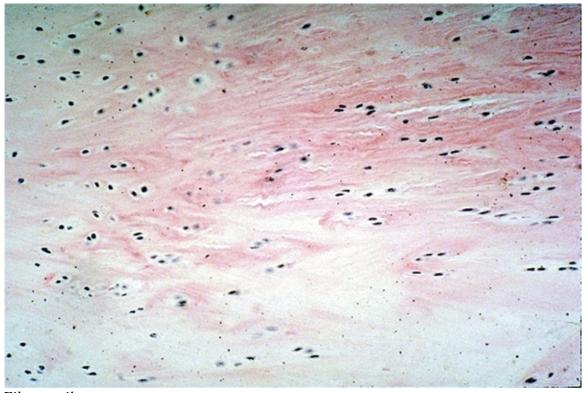
Dense Regular C.T.



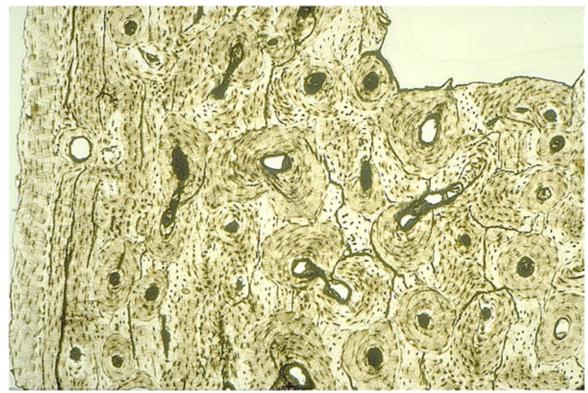
Hyaline Cartilage



Elastic Cartilage



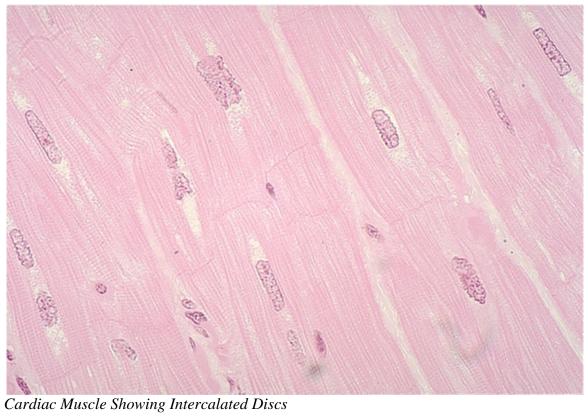
Fibrocartilage

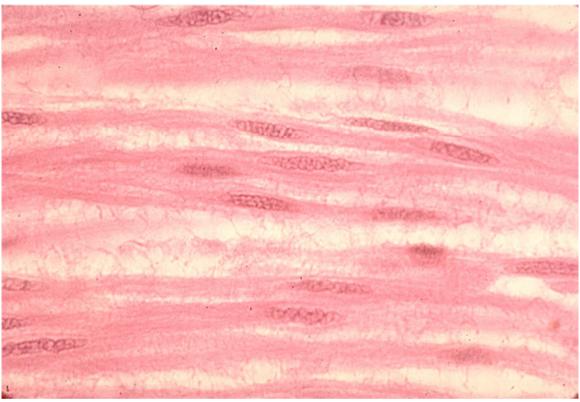


Bone Tissue (Compact Bone Showing Haversian Systems)

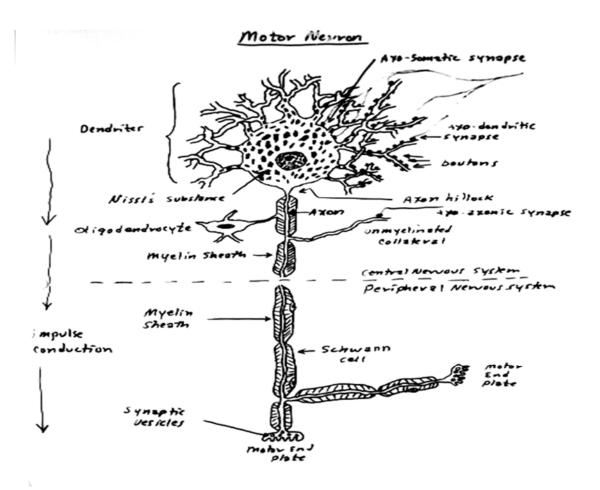


Skeletal Muscle, L.S. & X.S.

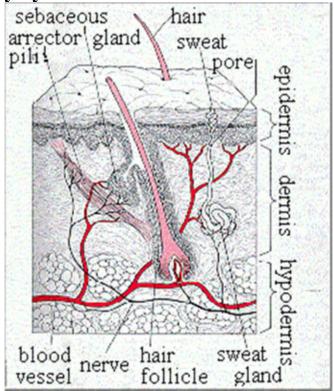




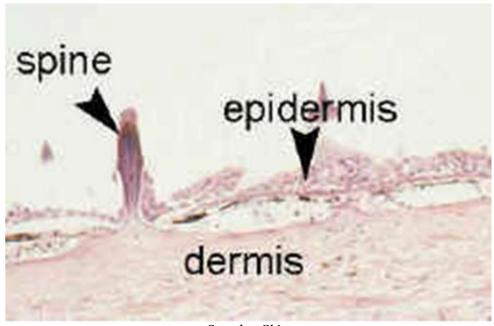
Smooth Muscle



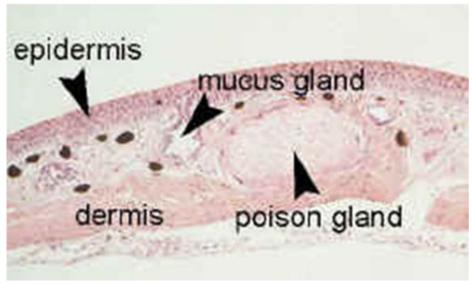
Integumentary System



Mammalian Integument



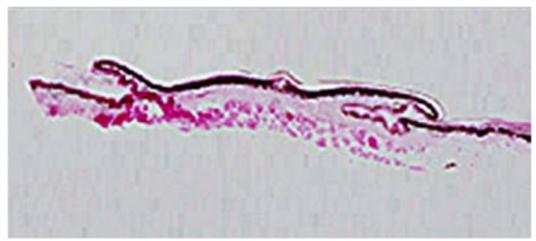
Squalus Skin



Frog Integument



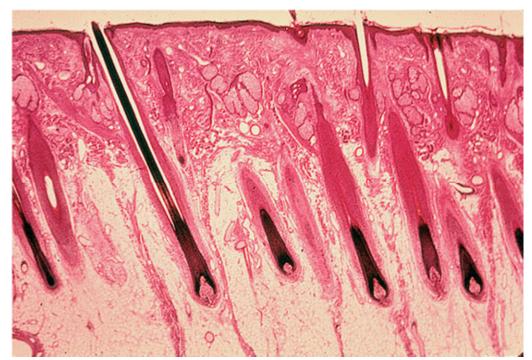
Keratinized Epidermis



Snake Skin Showing Epidermal Scales







Mammalian Integument Showing Hair and Sebaceous Glands





Cetacean Skull Showing Baleen

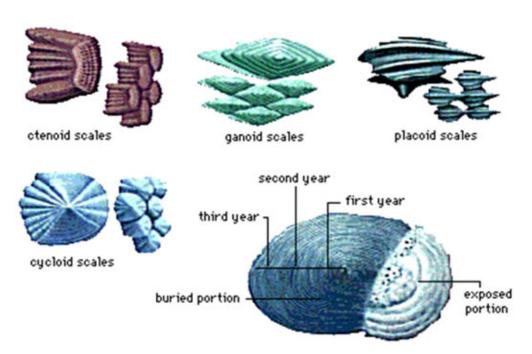


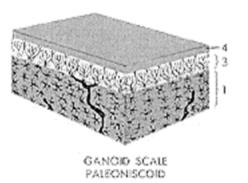
Dermis Showing Papillary Layer, Reticular Layer, and Derma Papillae



The typical dermal bone has four layers running from superficial to deep:

- (1) Enamel or Enameloid (an enamel-like substance)
- (2) Dentin
- (3) Spongy Bone (aka; cancellous or diploe bone)
- (4) Lamellar Bone (aka; cortical or compact bone) deposited in layers (aka; lamellae)

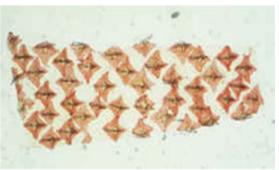






Ganoid Scales, a Subclass of Rhomboid Scale

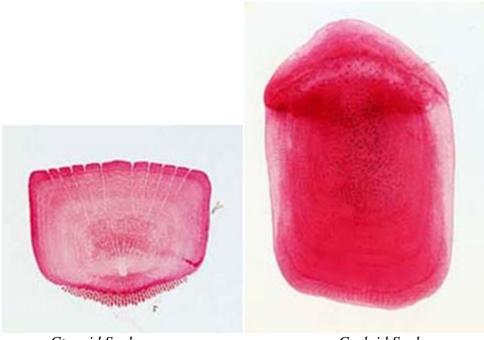




Placoid Scales

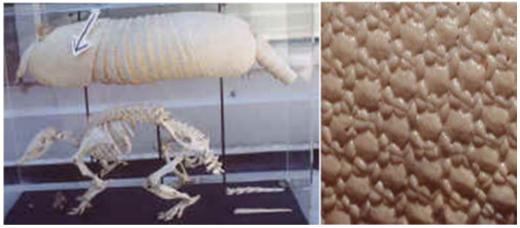


Elasmoid Scale



Ctenoid Scale

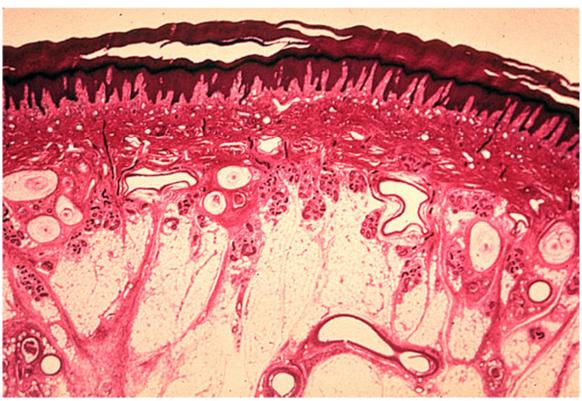
Cycloid Scale



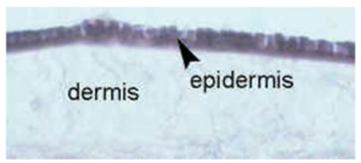
Armadillo Dermal Bone



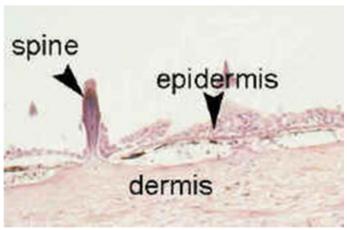
Human Skin Showing Melanocytes



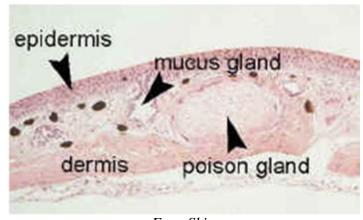
Human Skin Showing the Hypodermis. The Hypodermis is a Panniculus Adiposus



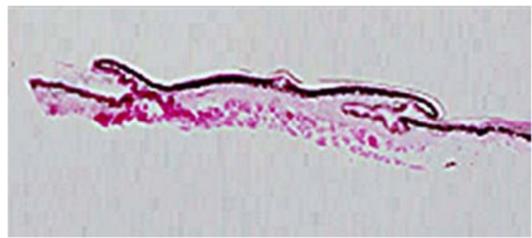
Agnathan Skin



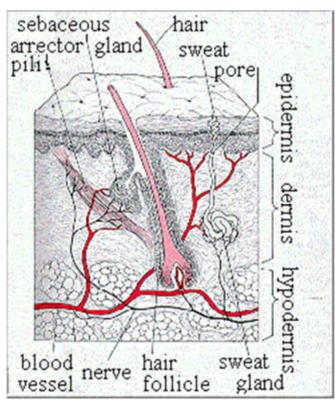
Squalus Skin



Frog Skin

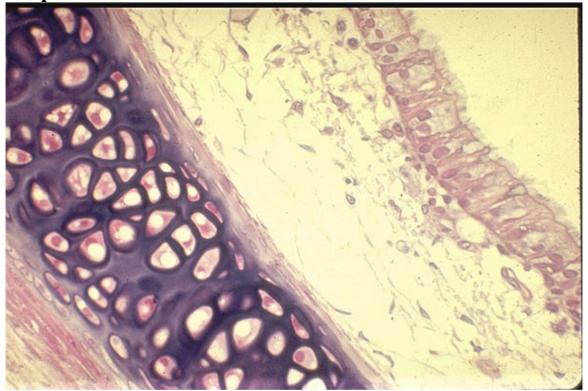


Snake Skin



Mammalian Integument

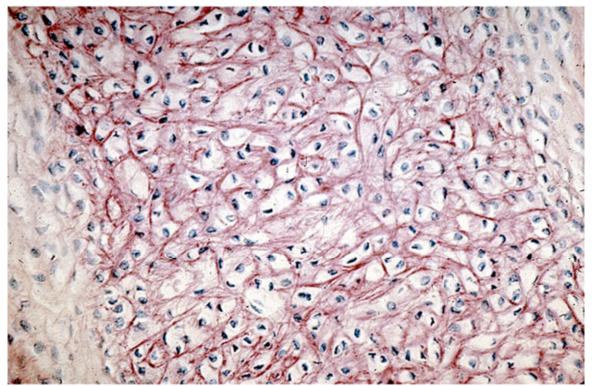
Chapter 7: Skeletal Tissues



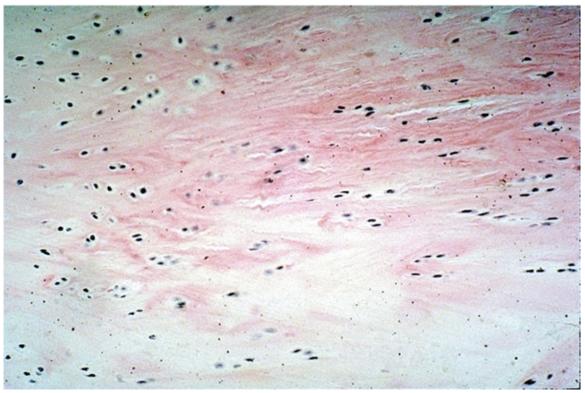
Cartilage Showing Perichondrium



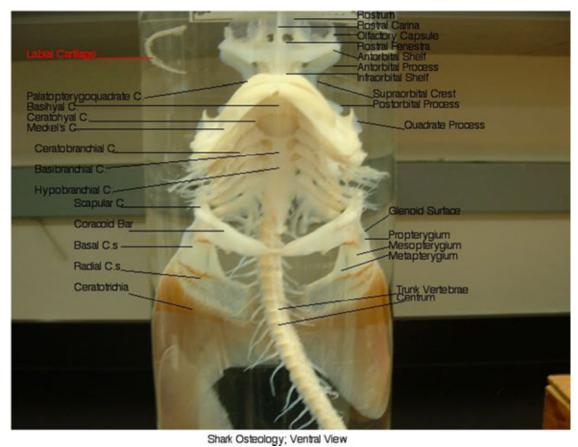
Hyaline Cartilage



Elastic Cartilage



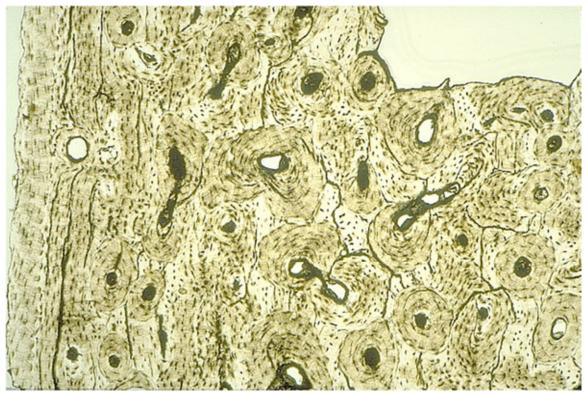
Fibrocartilage



Shark Skeleton Showing the Calcified Cartilage of the Jaws



Compact Bone Showing Haversian Canal, Lacunae, and Canaliculi



Compact Bone Showing Haversian Systems and Volksmann's Canals





Figure 2.1: The Four Classes of Bones Based On Shape

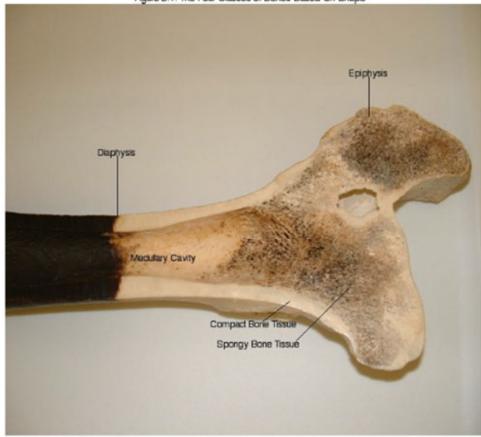
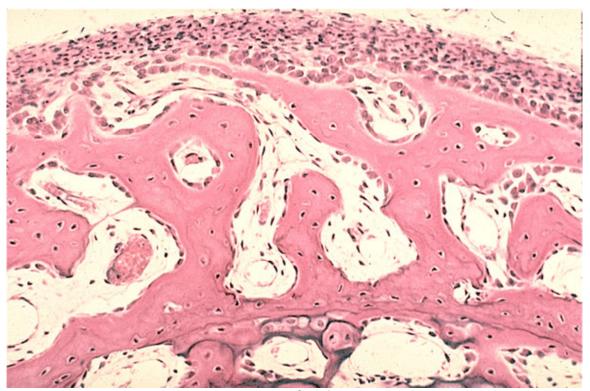
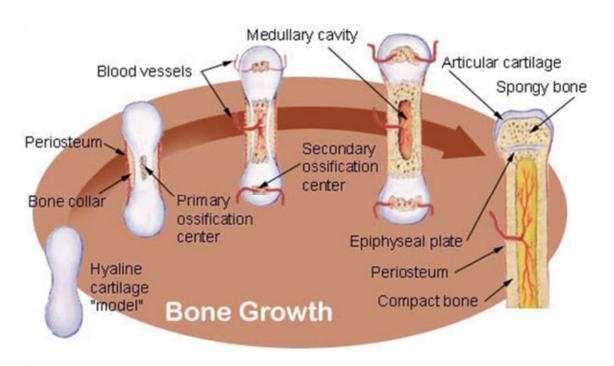


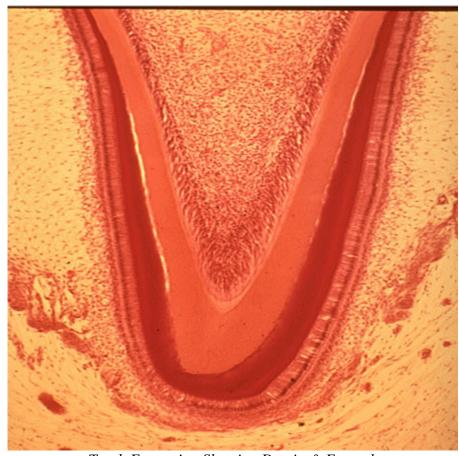
Figure 2.2: A Sectioned Long Bone



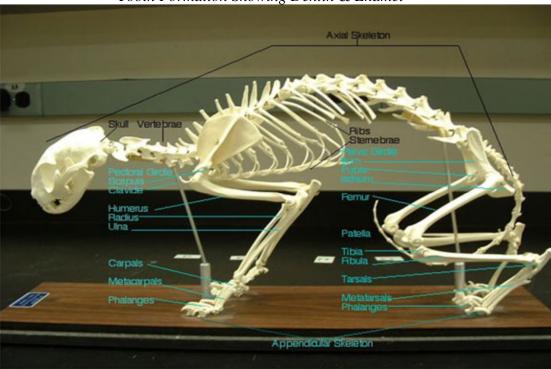
Intramembranous Ossification



Endochondral Ossification



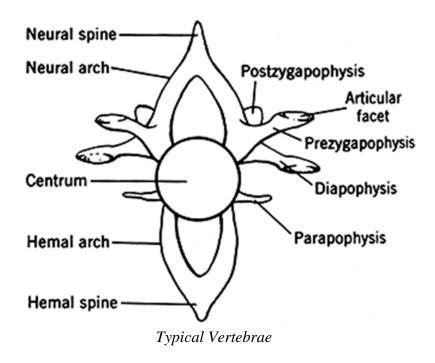
Tooth Formation Showing Dentin & Enamel

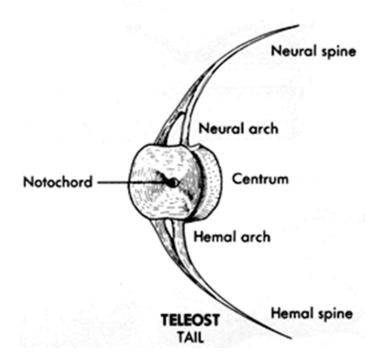


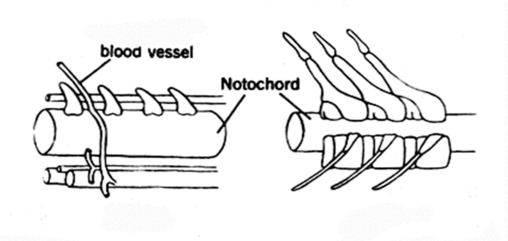
Cat Skeleton; An Overview

Cat Skeleton Showing Axial vs. Appendicular Divisions

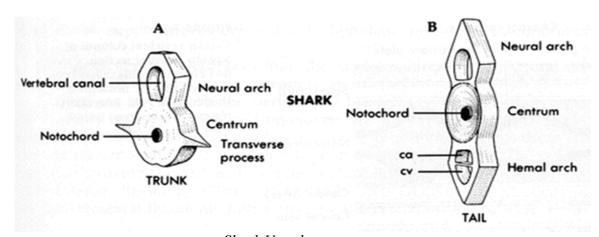
Chapter 8: Vertebrae, Ribs, and Sterna

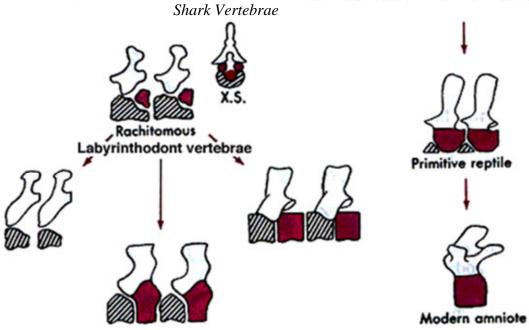


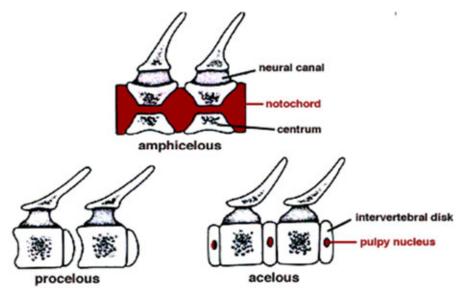




Agnathan Vertebrae







Types of Vertebrae

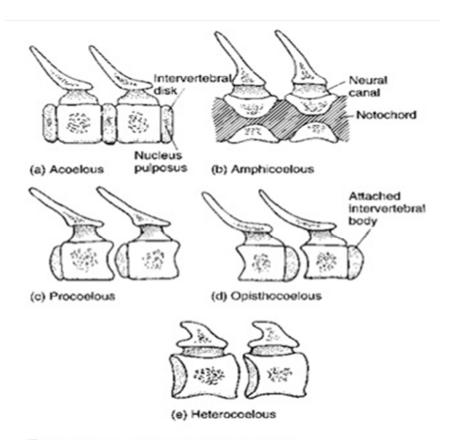


FIGURE 8.4 General centra shapes.



Figure 3.3(a): Vertebral Column, Lateral View
Regional Specialization of the Vertebral Column in a Human

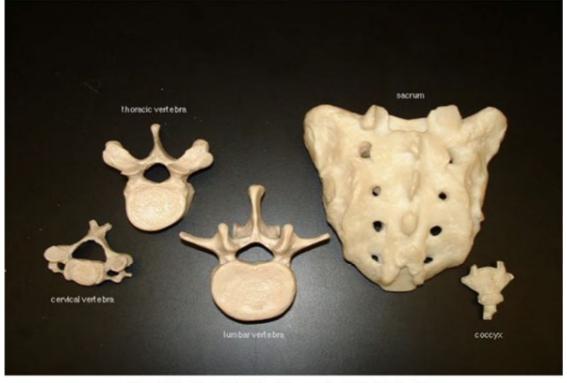
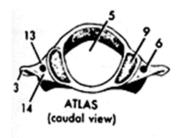
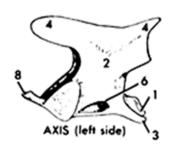
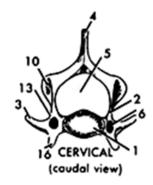


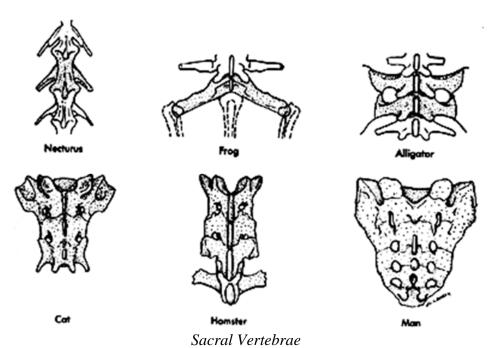
Figure 3.3(c): Sample Vertebrae Representing all Five Regional Groups

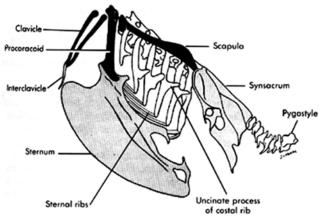




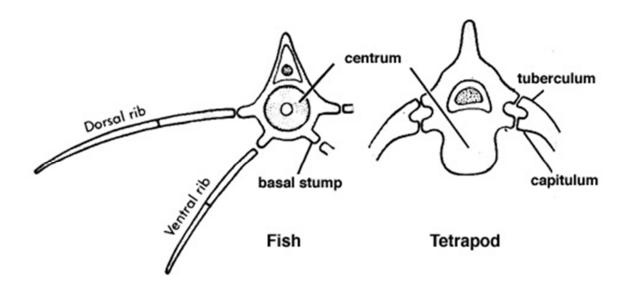


Cat Cervical Vertebrae

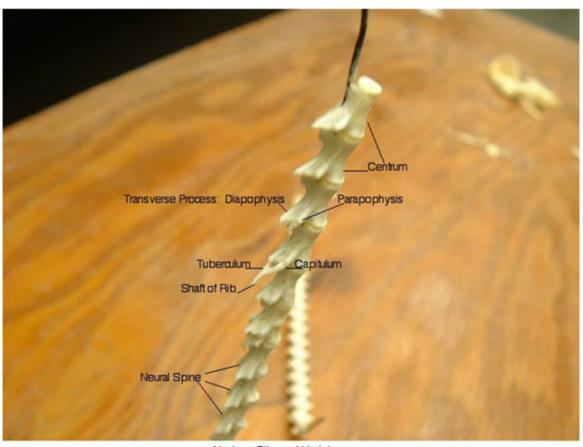




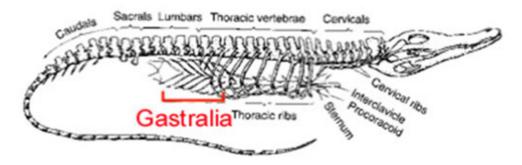
Bird Synsacrum



Ribs and Their Vertebral Connections



Necturus Ribs and Vertebrae Amphibian Ribs and Trunk Vertebrae



Ribs in a Crocodilian

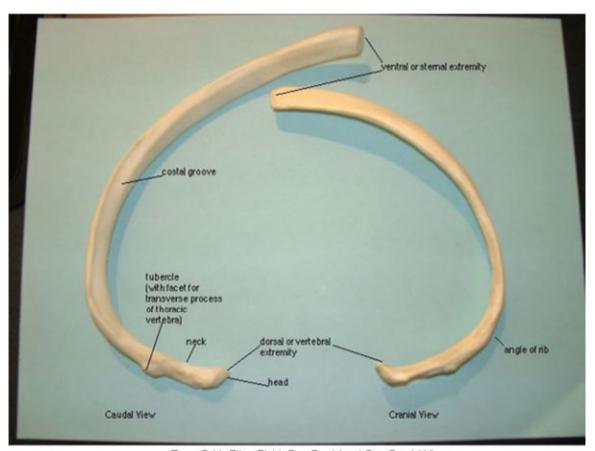
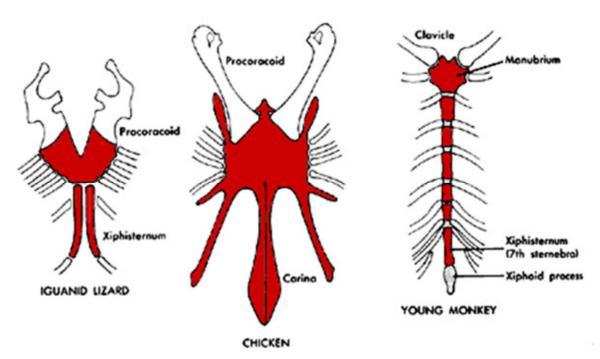
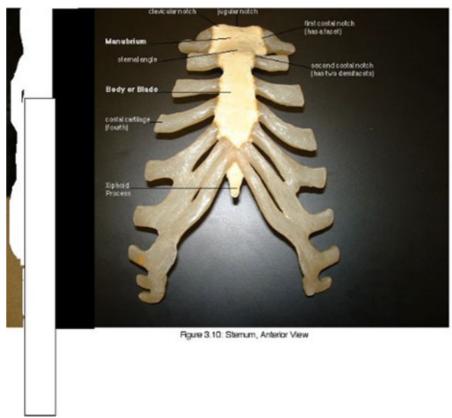


Figure 3.11. Ribs, Right, One Cranial and One Caudal View



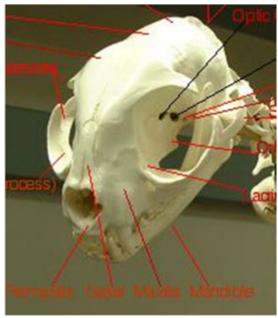


Sterna in Three Vertebrates



Human Sternum

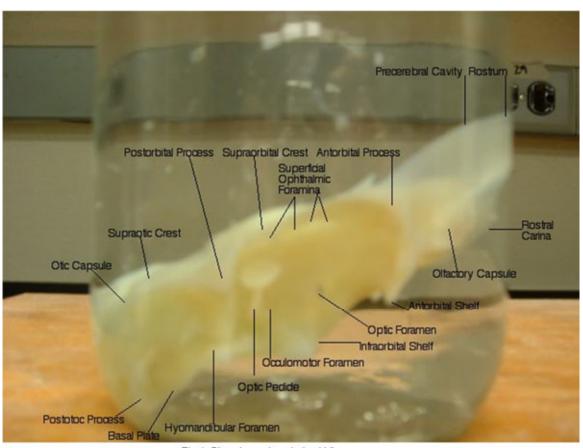
Chapter 9: The Skull and Visceral Skeleton



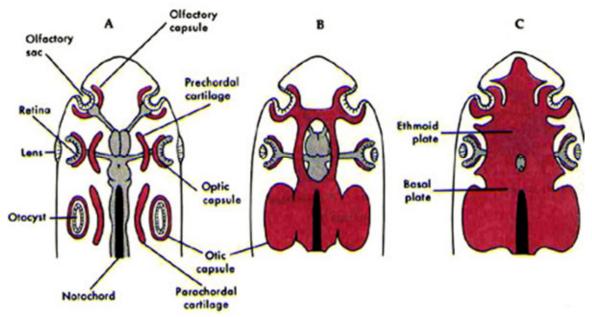
Typical Vertebrate Skull



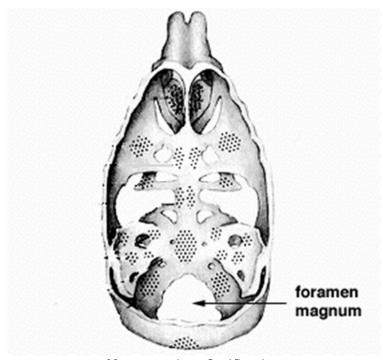
Splanchnocranium in Necturus



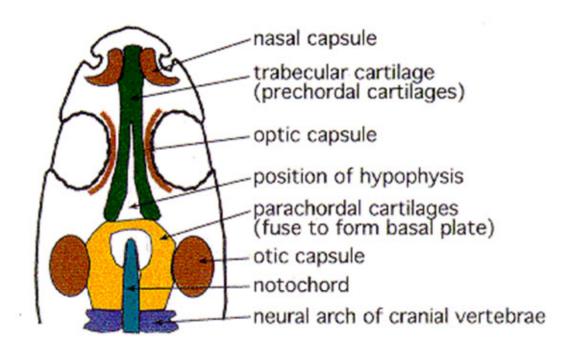
Shark Chondroganium; Lateral View



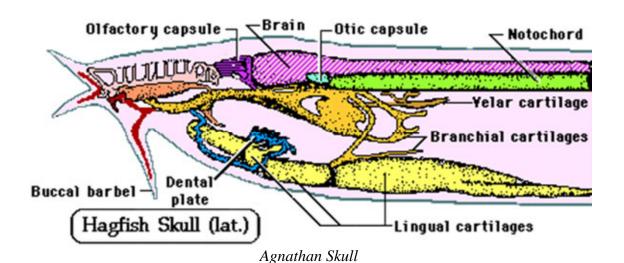
Neurocranium Formation



Neurocranium Ossification

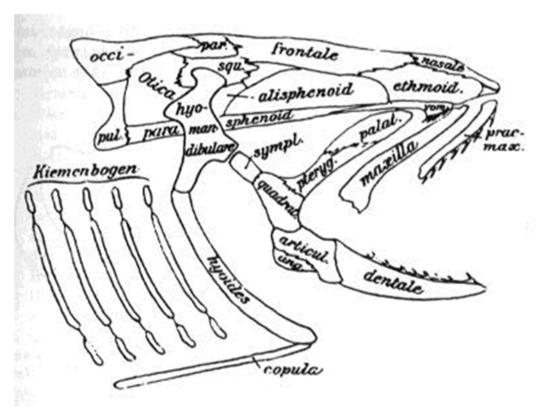


Vertebrate Chondrocranium (generalized early embryo)

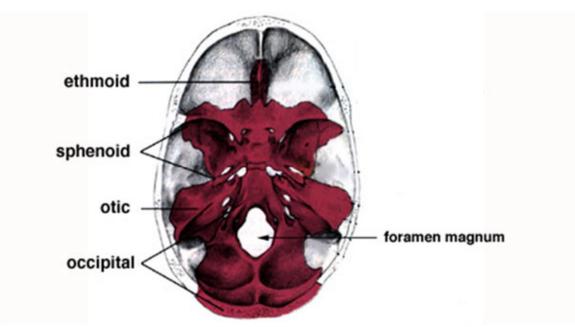




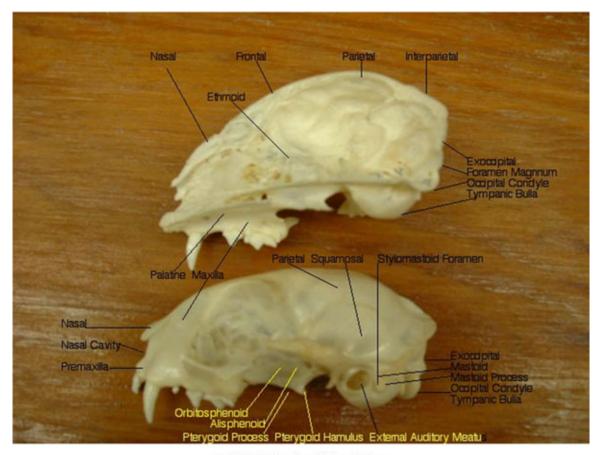
Chondrocranium in Squalus



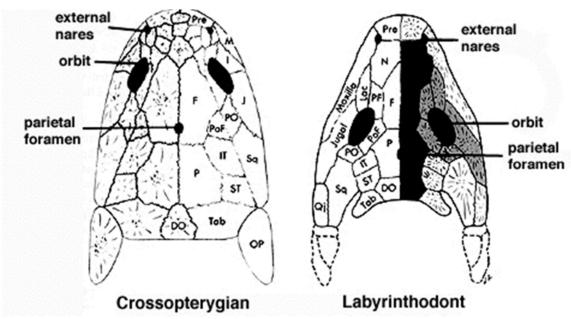
Teleost Skull



Human Neurocranium

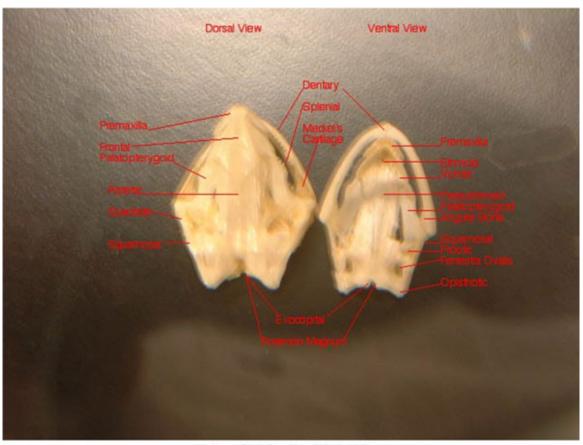


Cat Skull; External and Internal Views

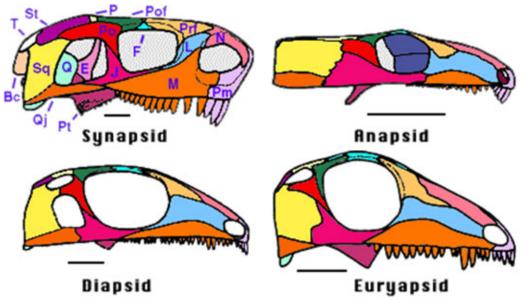


The Dermatocranium

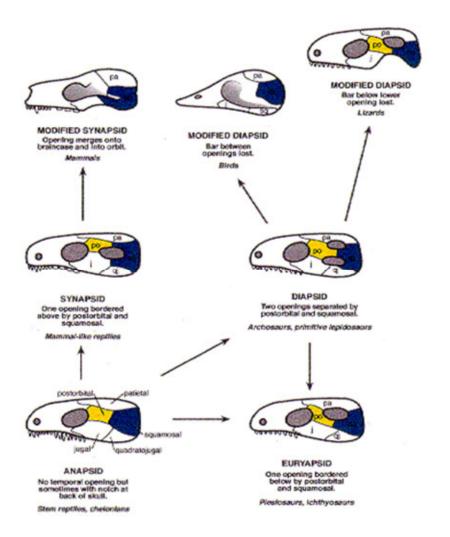


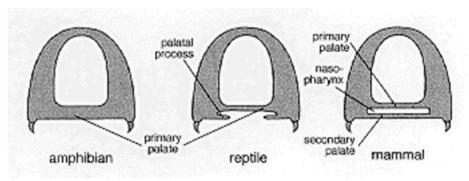


Necturus Skull; Dorsal and Ventral Views

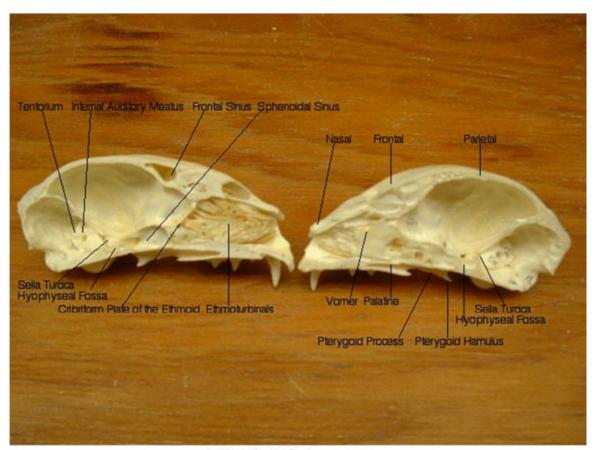


Types of Skulls

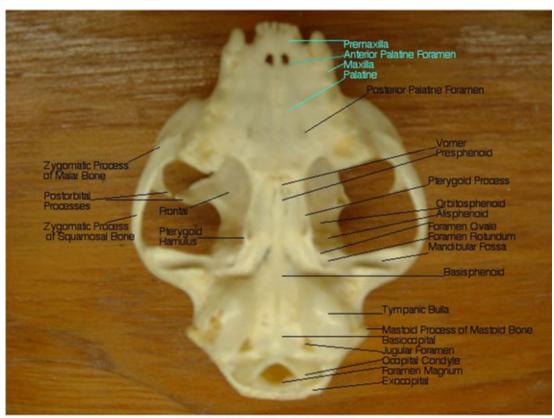




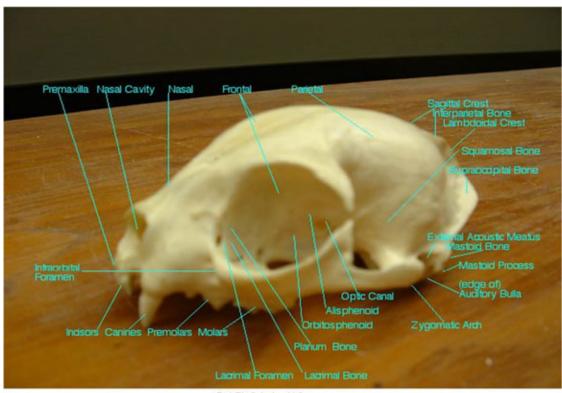
Primary and Secondary Palates



Cat Skull; Sagittal Sections

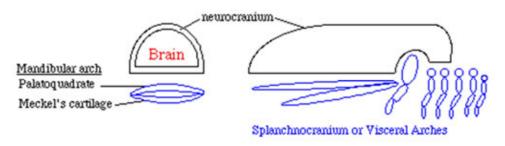


Cat Skull; Ventral View (with mandible removed)



Cat Skull; Lateral View

Chondrocranium Shark (=Neurocranium, Endocranium, Primary Brain Case)





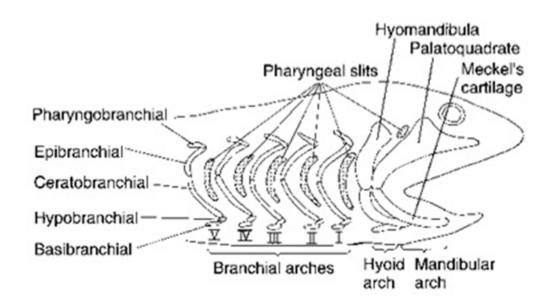
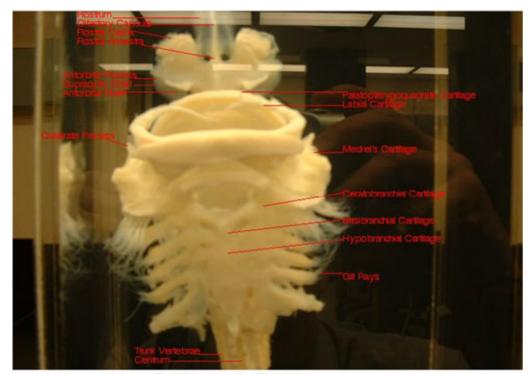
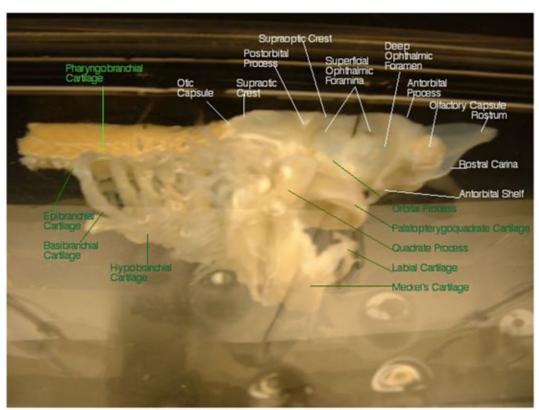


FIGURE 7.5 Primitive splanchnocranium.



Shark Splanchnocranium; Ventral View



Shark Chondrocranum and Splanchnocranium; Lateral View









Hyomandibula and derivatives

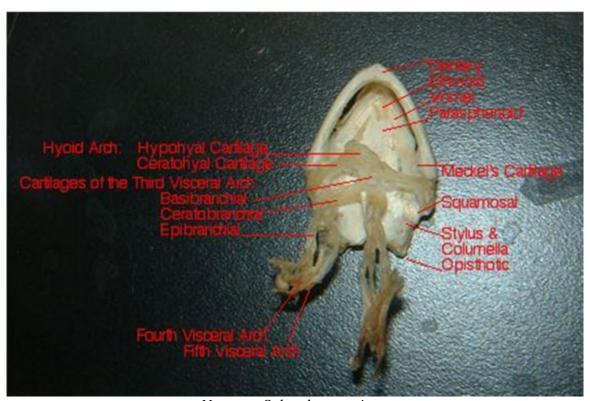


Mandibular arch and derivatives

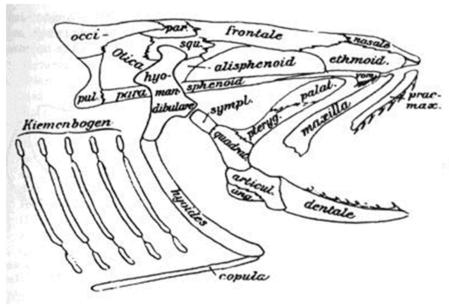


Chondrocranium

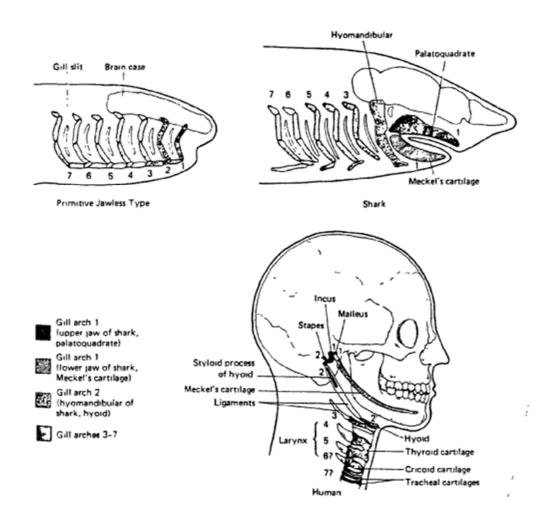
Jaw Suspensions

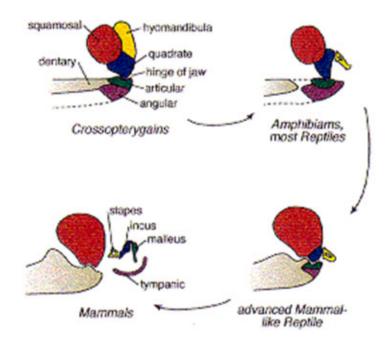


Necturus Splanchnocranium

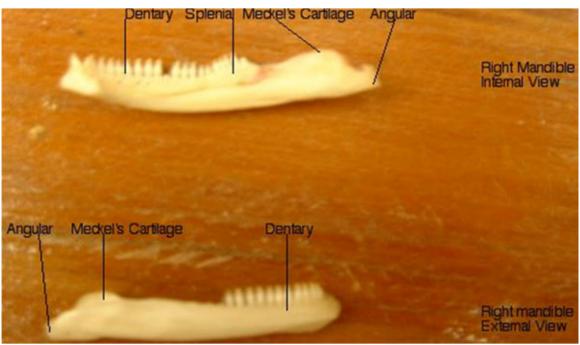


Teleost Skull

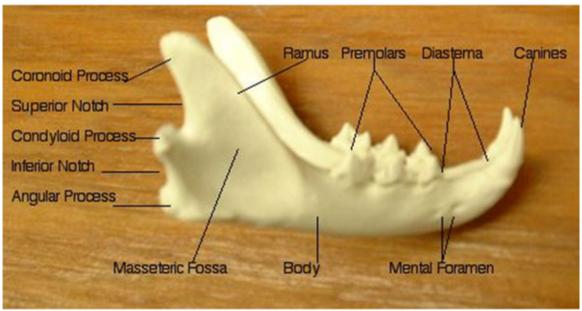




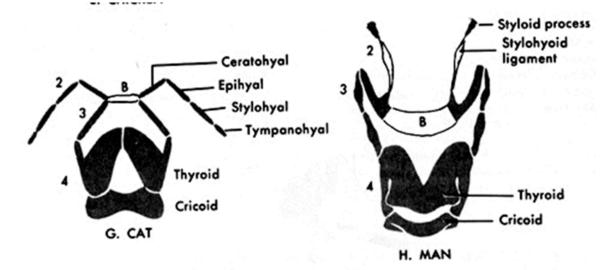
Jaw Evolution



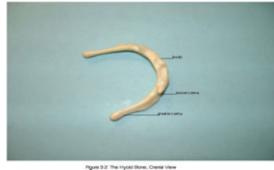
Necturus Lower Jaw



Feline Lower Jaw



Splanchnocranial Derivatives



Human Hyoid

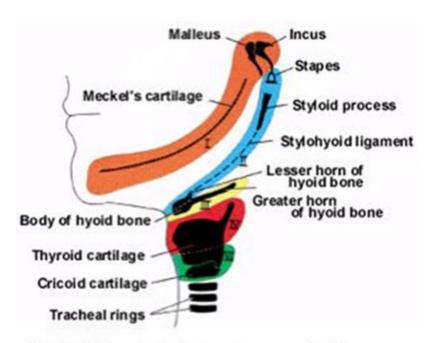
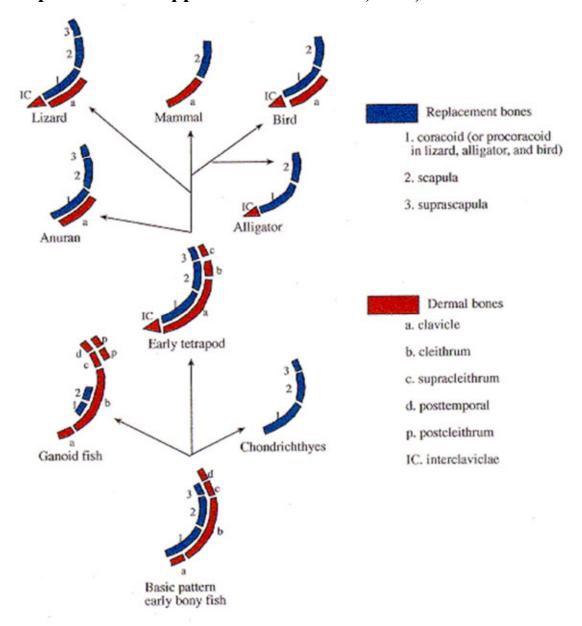
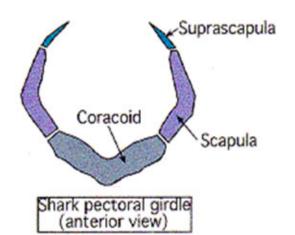
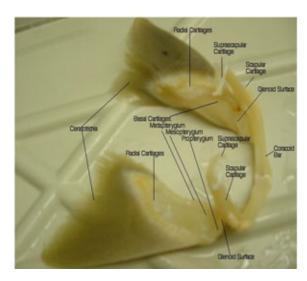


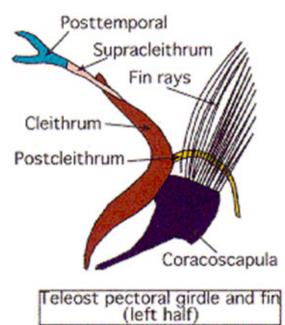
Fig. 3. Gill arch derivatives in mammals. Note the Meckelian Cartilage has not transformed significantly.

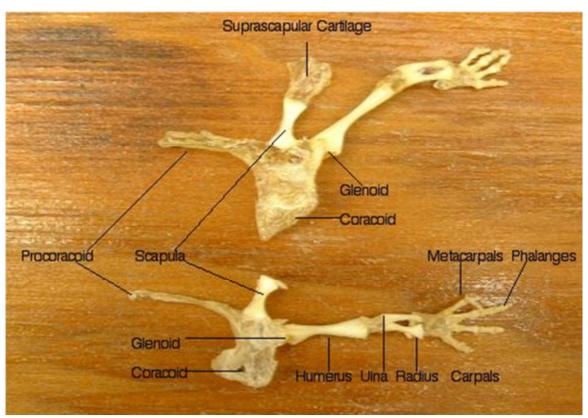
Chapter 10: The Appendicular Skeleton, Fins, and Tails



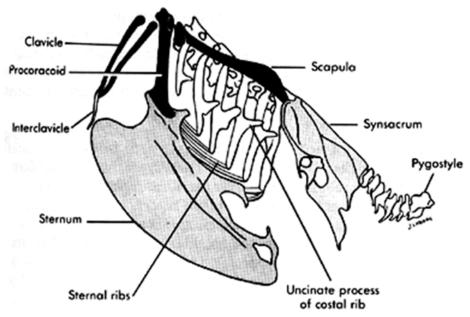




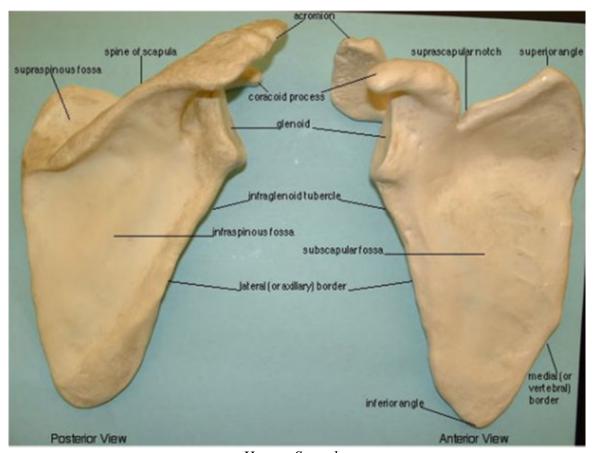




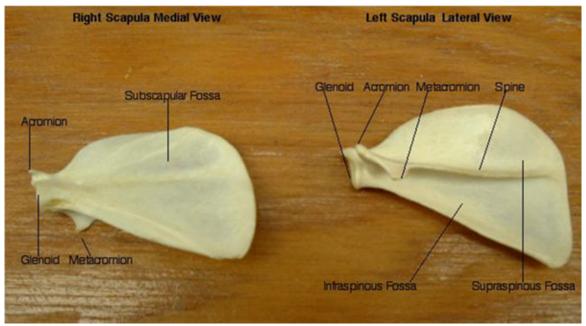
Necturus Pectoral Appendage



Avian Pectoral Appendage



Human Scapula



Feline Scapula

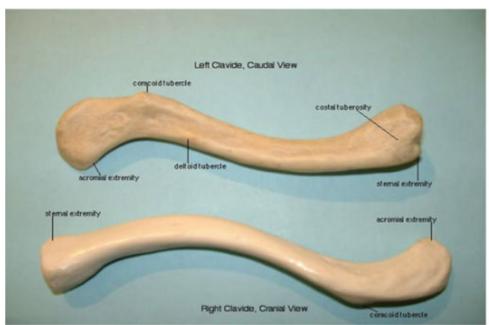
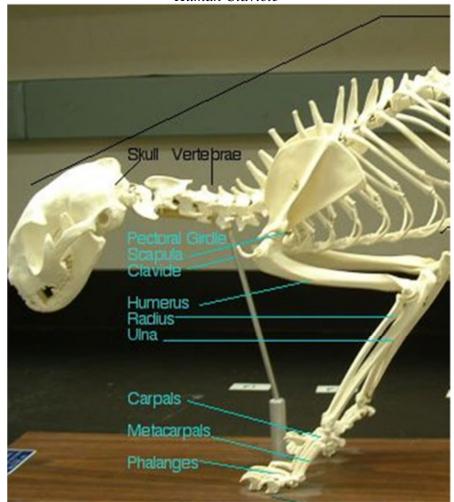
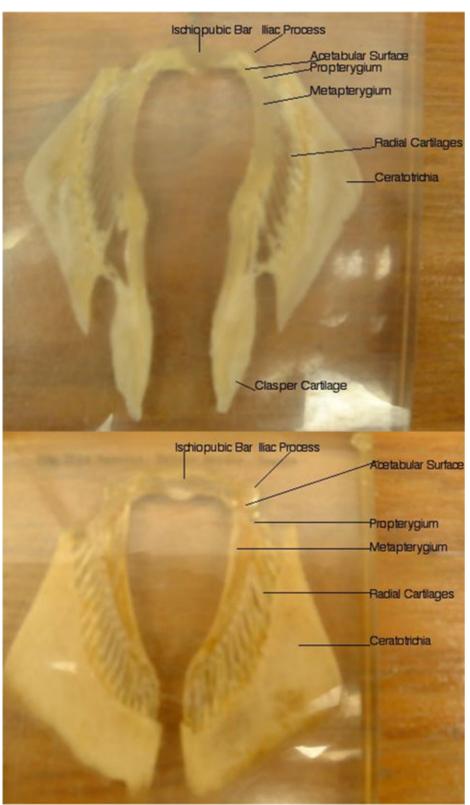


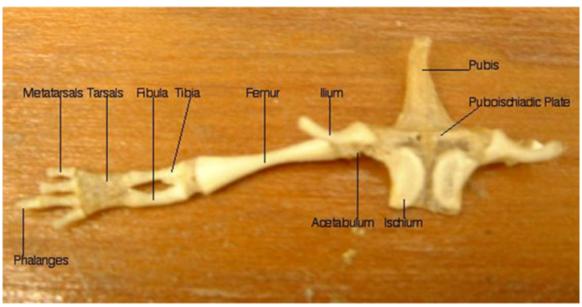
Figure 4.1: Clavide Human Clavicle



Feline Clavicle



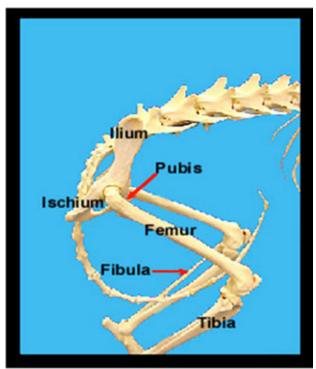
Shark Pelvic Girdles



Necturus Pelvic Girdle



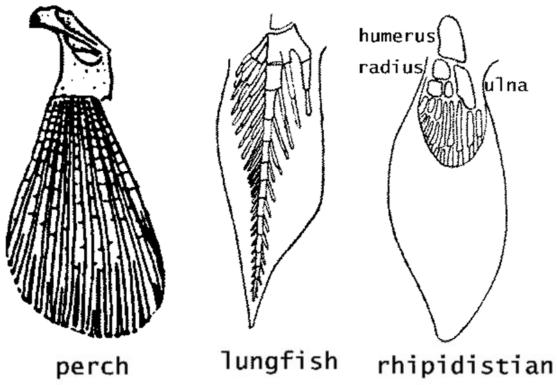
Avian Pelvic Girdle

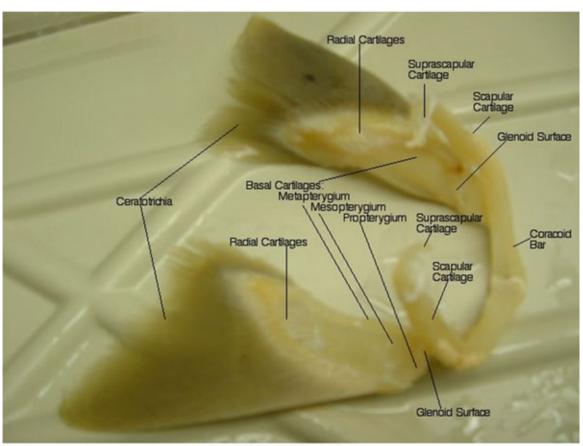


Feline Pelvic Girdle

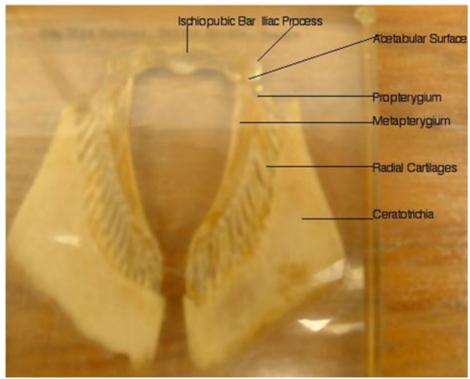


Figure 4.6: Pelvis (Male), Anterior View Human Pelvic Girdle

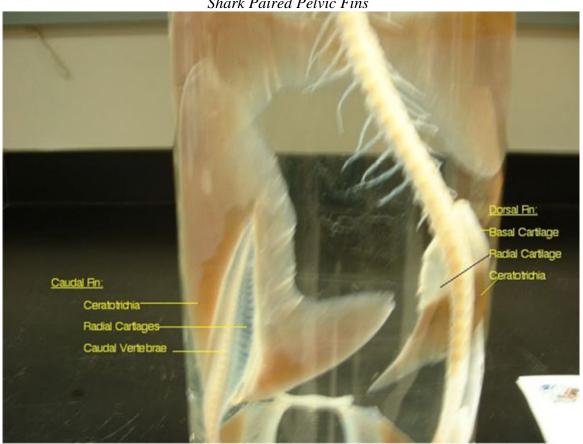




Shark Pectoral Girdle and Fins



Shark Paired Pelvic Fins



Shark Caudal and Dorsal Fins Shark Caudal and Dorsal Fins

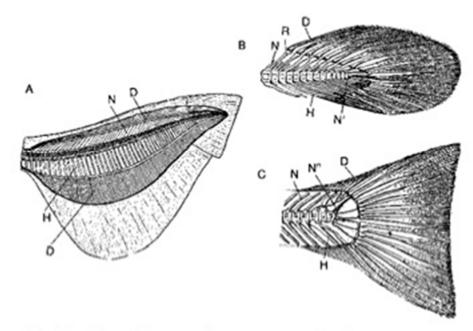
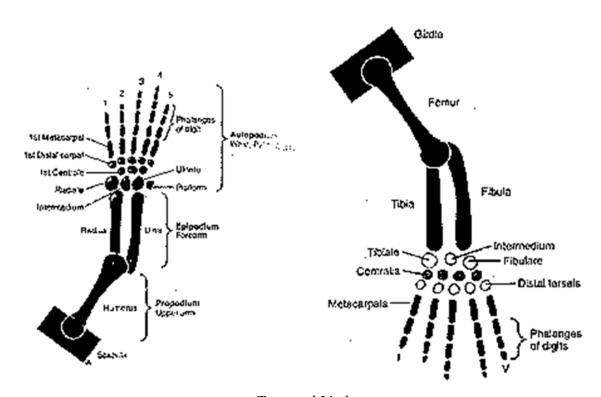
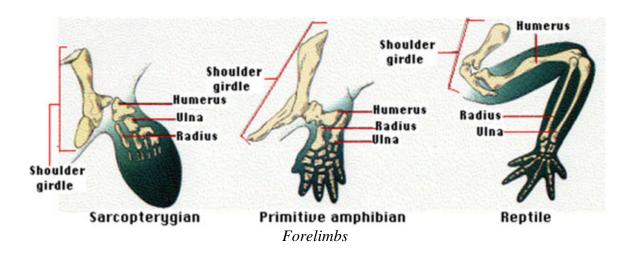


Figure 136. Caudal fins. A, Heterocercal type as seen in a shark (a similar structure occurs in sturgeons and paddlefish); B, diphycercal type, as seen in Polypterus; C, homocercal type of a teleost. Abbreviations: D, Dermal fin rays; H, hemal spines; N, neural arches; N', tip of notochord; R, fin radials. In C, enlarged elements beyond H are hypural bones. (From Dean.)



Tetrapod Limbs



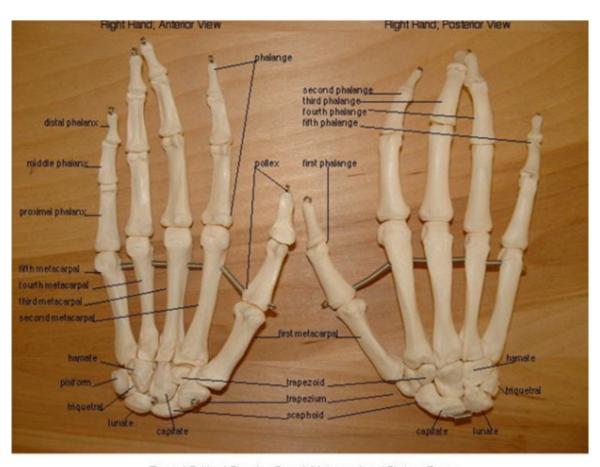
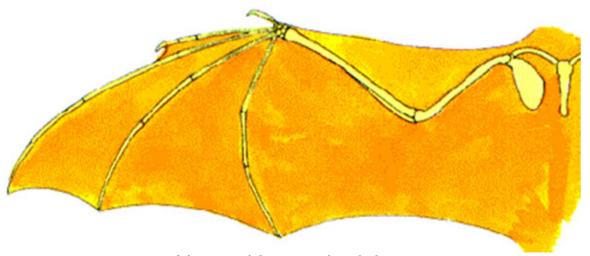


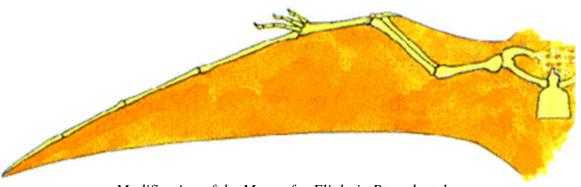
Figure 4.5: Hand Showing Carpal, Metacarpal, and Phalanx Bones



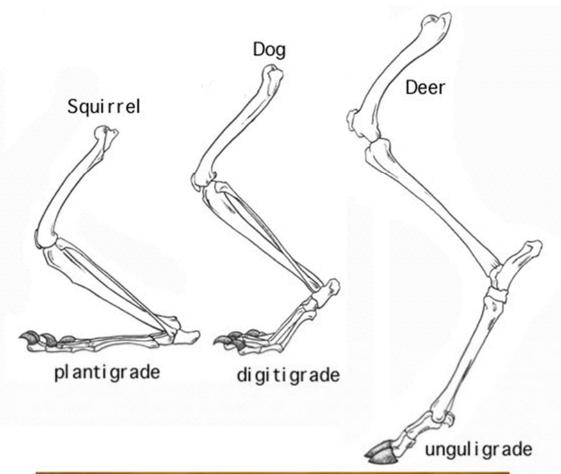
Modification of the Manus for Flight in Birds

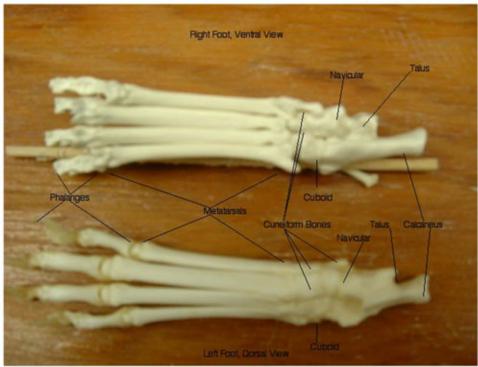


Modification of the Manus for Flight in Bats



 $Modification\ of\ the\ Manus\ for\ Flight\ in\ Pterodactyls$



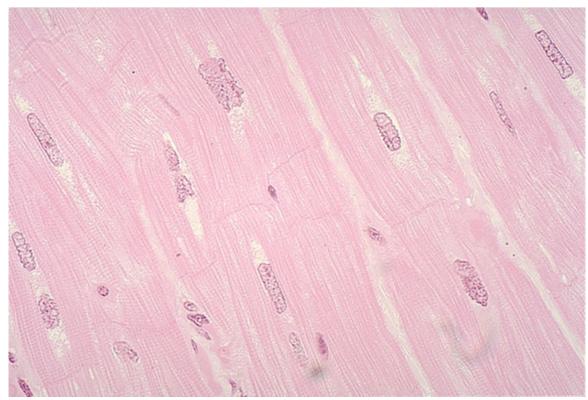


Cat Hindfoot

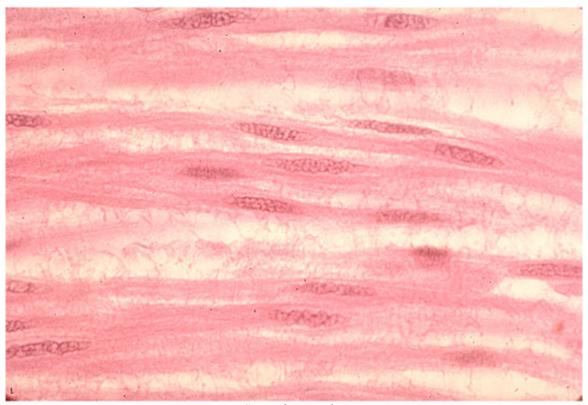
Chapter 11: Myology



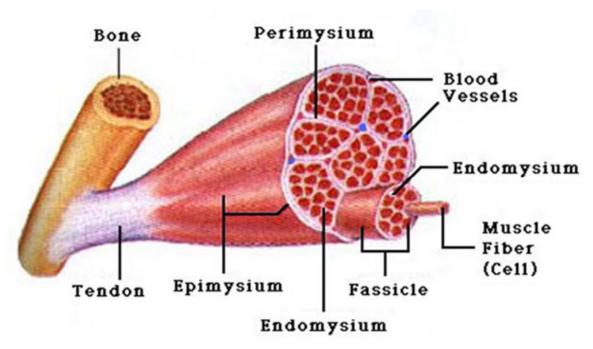
Skeletal Muscle, L.S. & X.S.



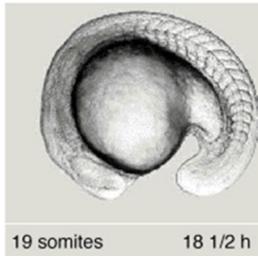
Cardiac Muscle Showing Intercalated Discs



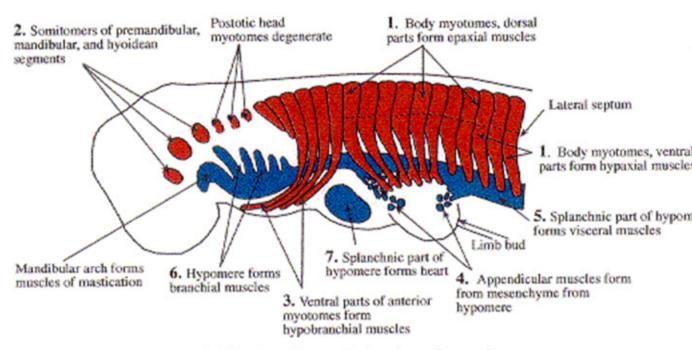
Smooth Muscle



Basic Structure of a Skeletal Muscle Organ

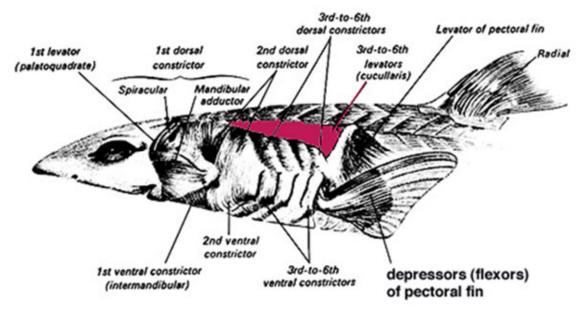


Somites Forming in an Embryo

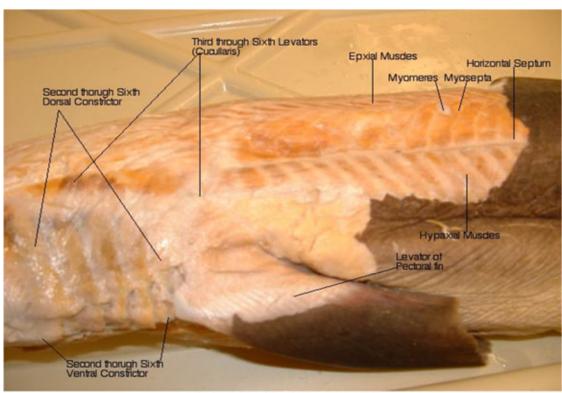


Stylized embryo--derivation of muscles from myotomes and hypomere

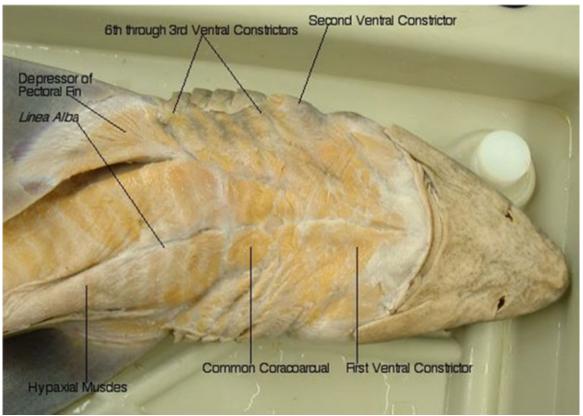
Embryonic Muscle Development

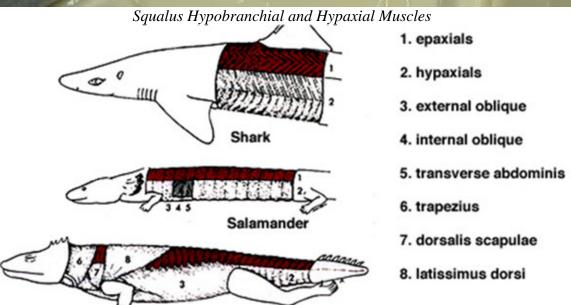


Squalus Trunk Musculature



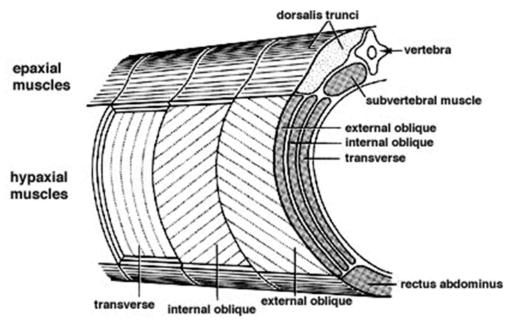
Shark Myology: Dorsal Body, Superficial Squalus Trunk Musculature



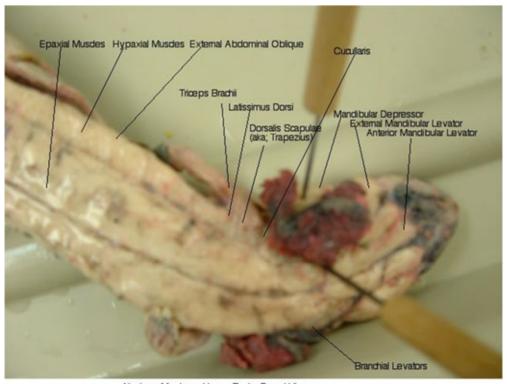


Sphenodon

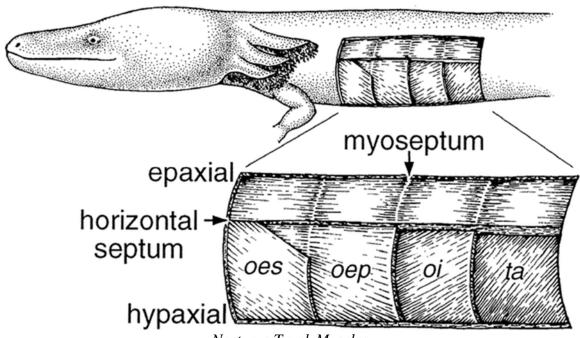
Epaxial and Hypaxial Muscles



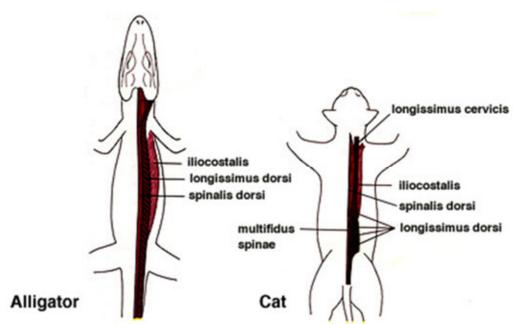
Epaxial and Hypaxial Muscles in a Tetrapod



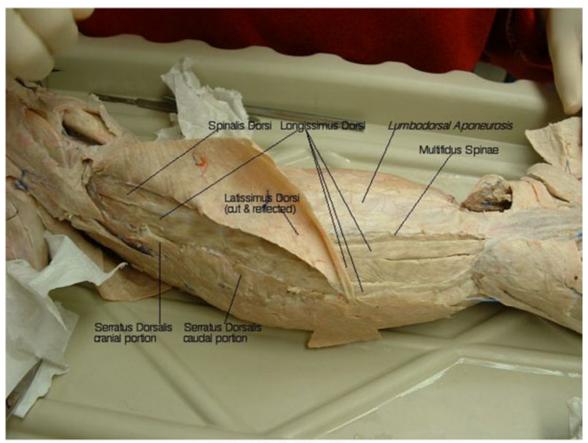
Necturus Myology: Upper Body, Dorsal View
Necturus Trunk Muscles



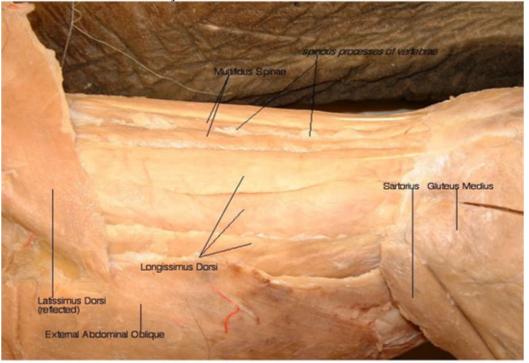
Necturus Trunk Muscles



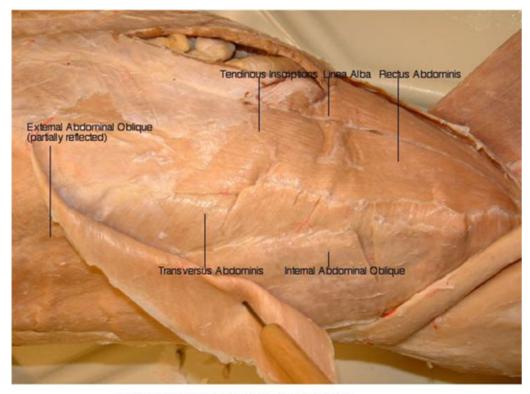
Epaxial Muscles in Amniotes



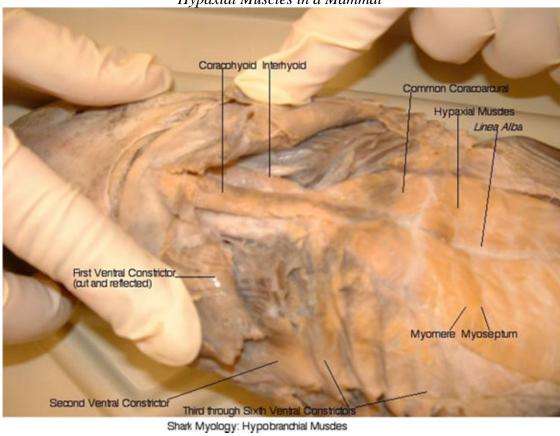
Cat Myology: Erector Spinae Group
Epaxial Muscles in a Mammal



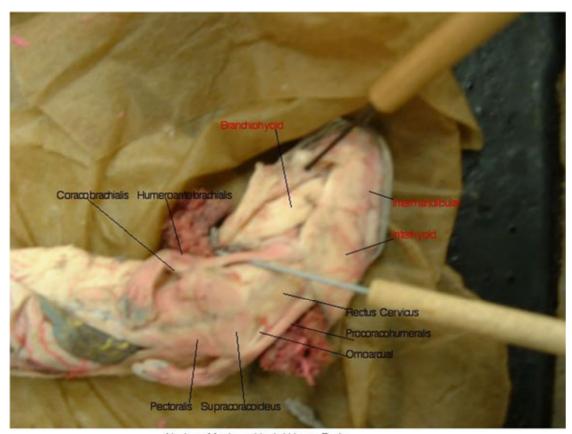
Cat Myology: Lower Back, Deep



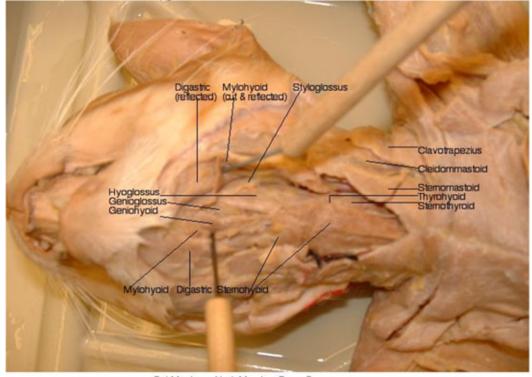
Cat Myology: Deep Musdes of the Abdominal Wall Hypaxial Muscles in a Mammal



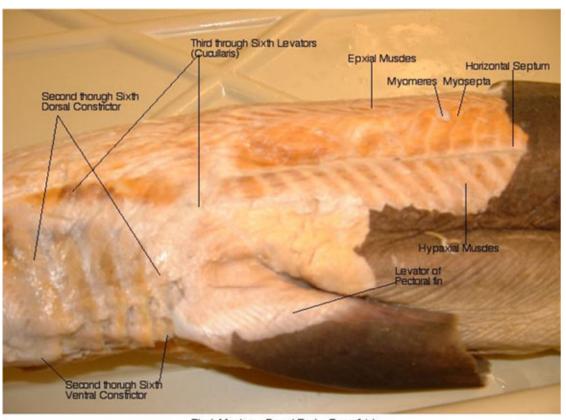
Hypobranchial Muscles in Squalus



Necturus Myology: Ventral Upper Body Hypobranchial Muscles in Necturus

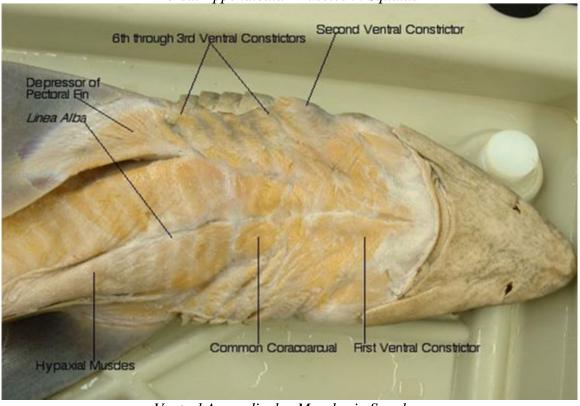


Cat Myology: Neck Musdes, Deep 2 Hypobranchial Muscles in Felis

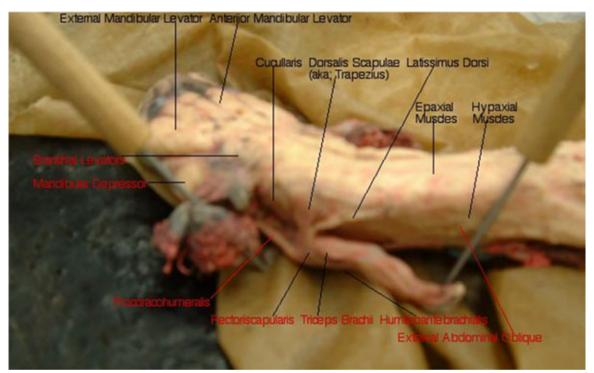


Shark Myology: Dorsal Body, Superficial

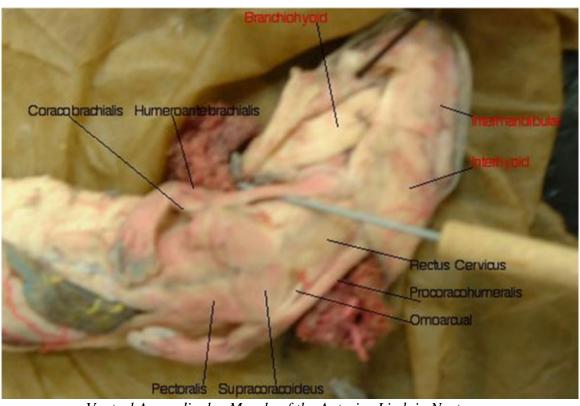
Dorsal Appendicular Muscles in Squalus



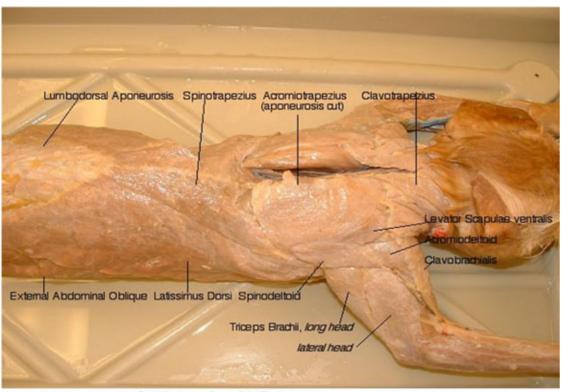
Ventral Appendicular Muscles in Squalus



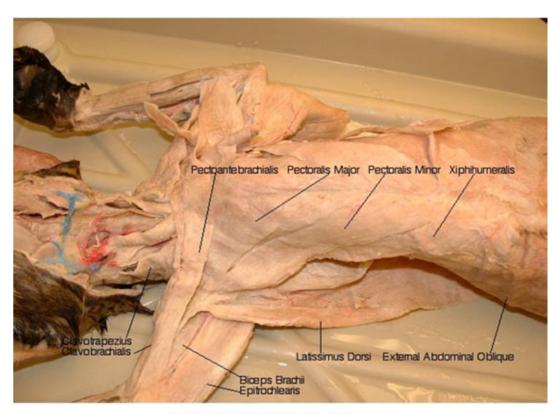
Dorsal Appendicular Muscle of the Anterior Limb in Necturus



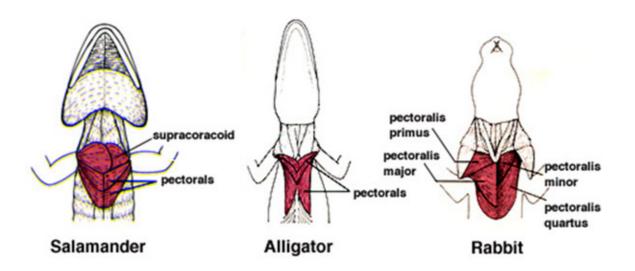
Ventral Appendicular Muscle of the Anterior Limb in Necturus



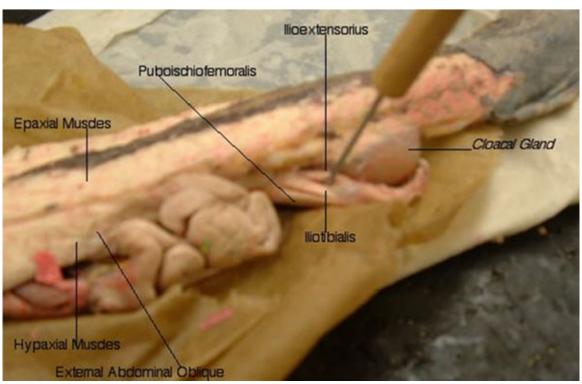
Cat Myology: Superficial Back
Some Dorsal Appendicular Muscle of the Anterior Limb in Felis



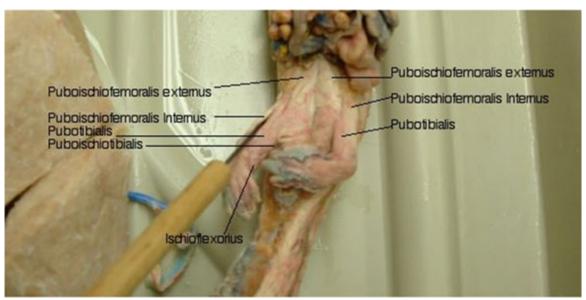
Cat Myology: Superidal Chest Musdes
Some Ventral Appendicular Muscle of the Anterior Limb in Felis



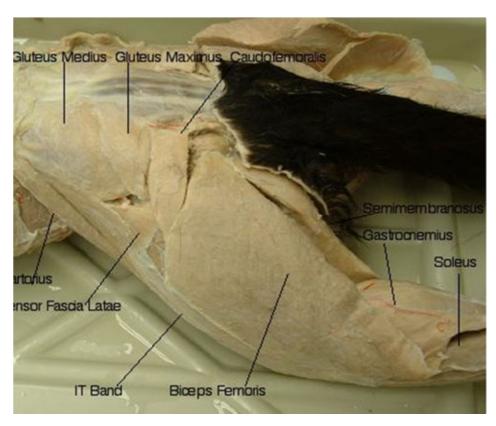
Pectoral Muscles



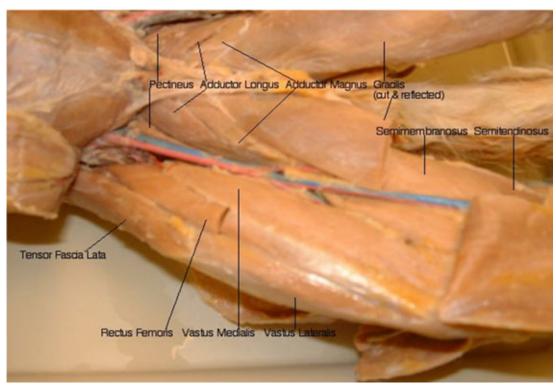
Dorsal Appendicular Muscle of the Posterior Limb in Necturus



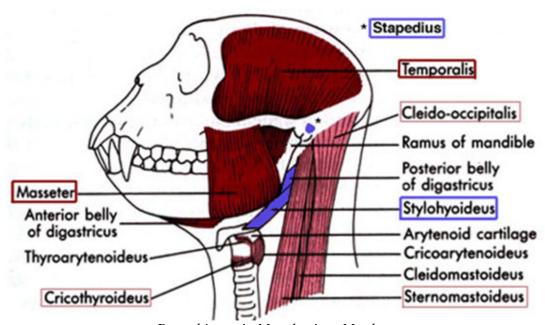
Ventral Appendicular Muscle of the Posterior Limb in Necturus



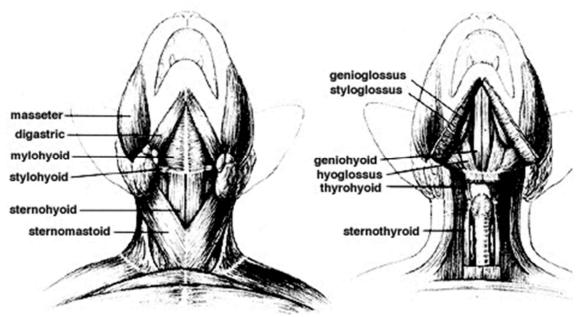
Some Dorsal Appendicular Muscle of the Posterior Limb in Felis



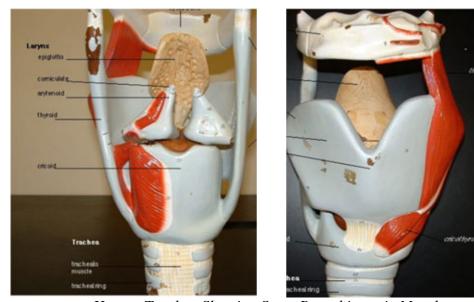
Some Ventral Appendicular Muscle of the Posterior Limb in Felis



Branchiomeric Muscles in a Monkey

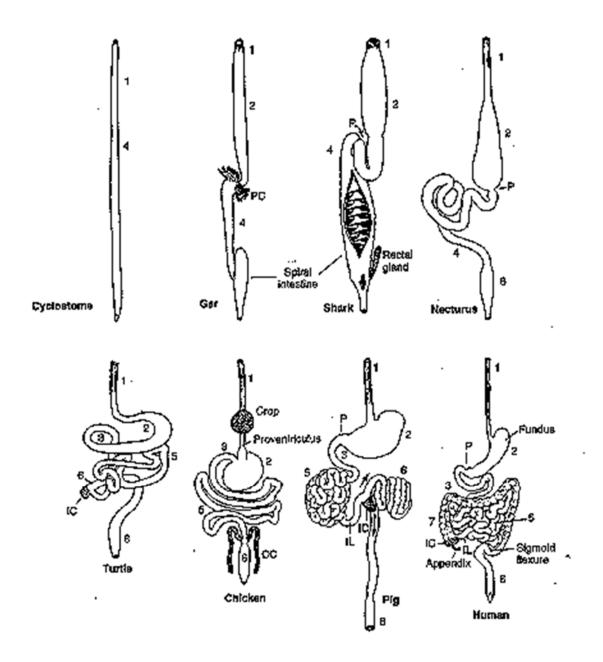


Branchiomeric Muscles in Felis



Human Trachea Showing Some Branchiomeric Muscles

Chapter 12: The Digestive System



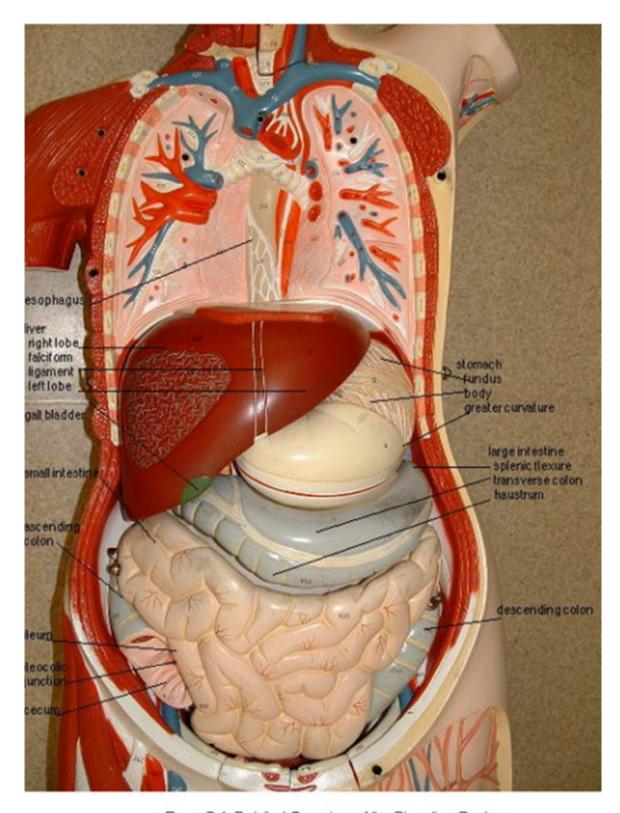
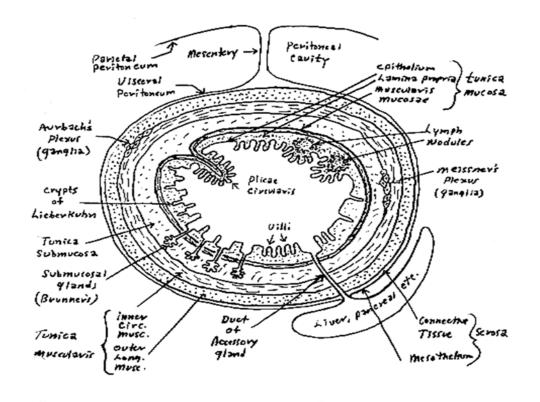
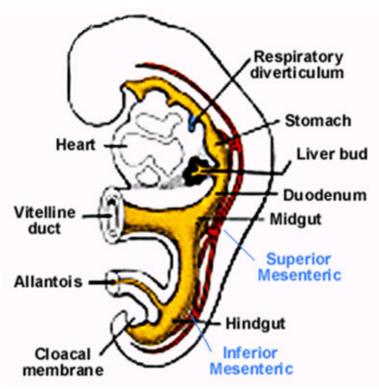


Figure 9.4: Detailed Overview of the Digestive System





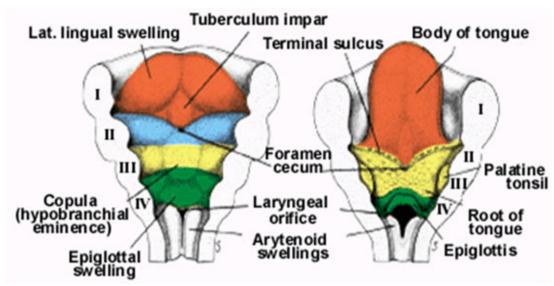
Basic Histology of the Digestive Tube



Development of the Digestive System



35.8 The frog's mouth. Its relatively large size is an adaptation for obtaining food.



Tongue Development

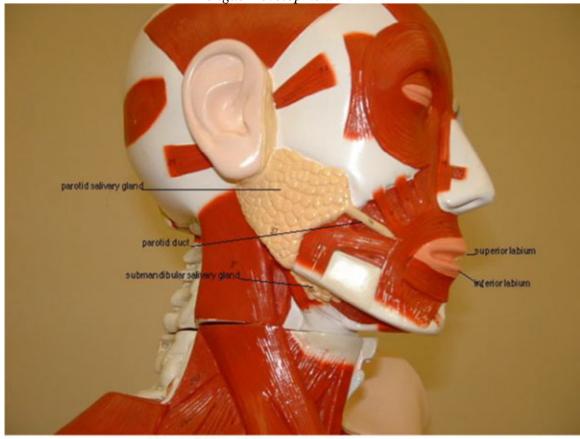
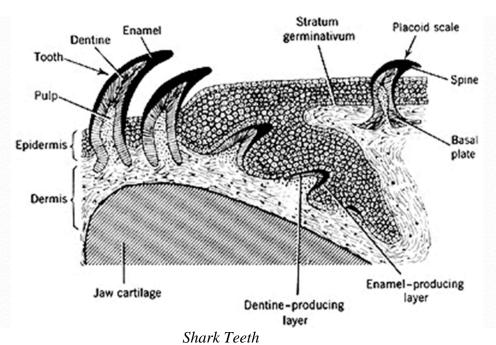
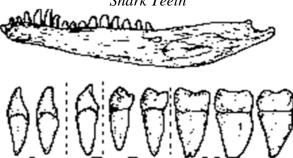


Figure 9.2 (a): The Oral Cavity; External View Parotid Salivary Gland

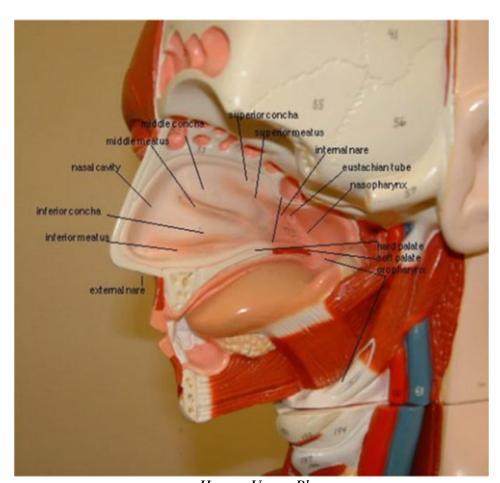


Tooth X.S., Human





Heterodontic Dentition in a Mammal



Human Upper Pharynx



Esophagus X.S. Human

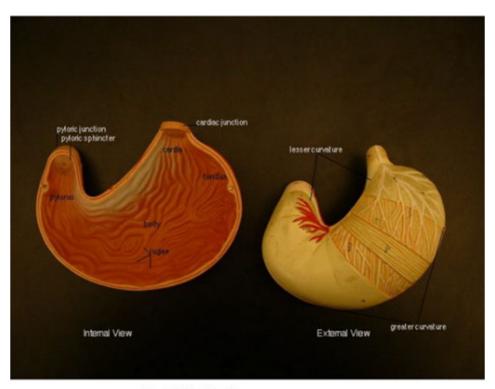
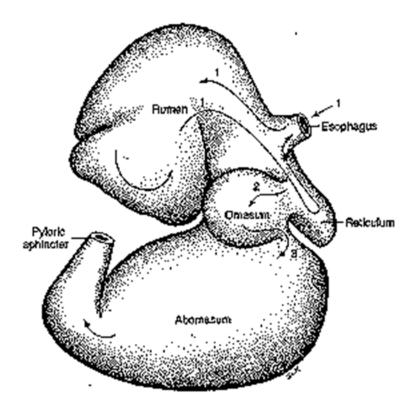


Figure 9.3: The Stomach

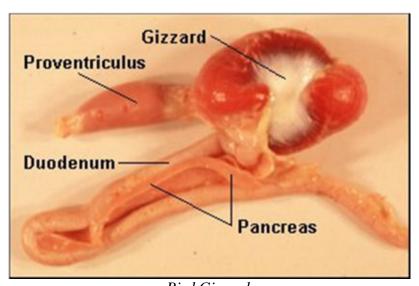
Human Stomach



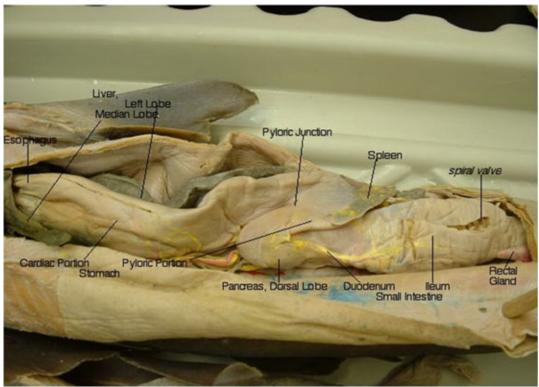
Human Stomach, Histology



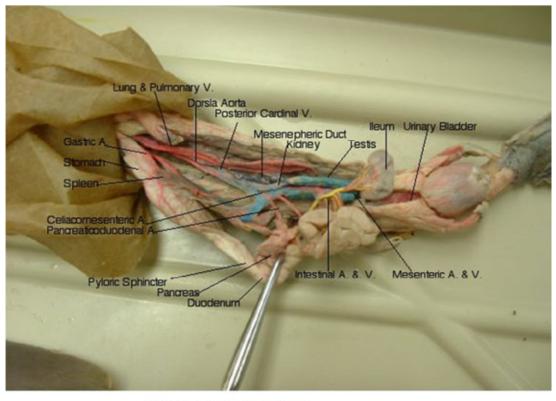
Ruminant Stomach



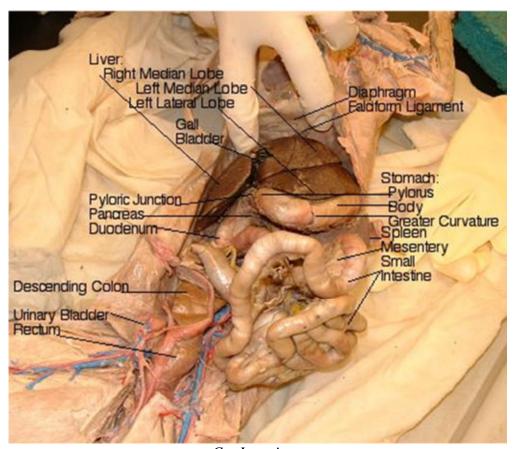
Bird Gizzard



Shark: Abdominal Cavity



Mud Puppy: Male, Viscera + B.V.





Mammalian Small Intestine, Microscopic Section



Villus of Small Intestine Showing Microvillae and Goblet Cells

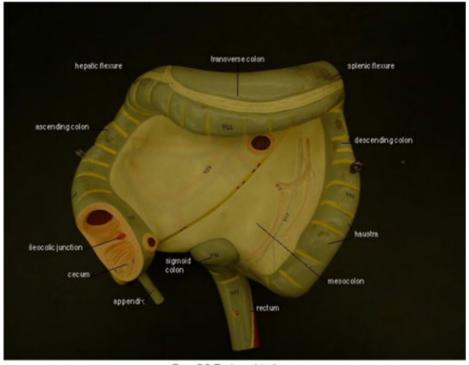


Figure 9.6: The Large Intestine Human Large Intestine

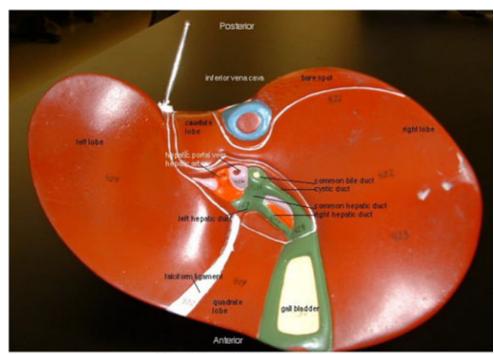


Figure 9.8: Liver and Gall Bladder, Interior View
Human Liver, Gall Bladder, and Biliary Tree

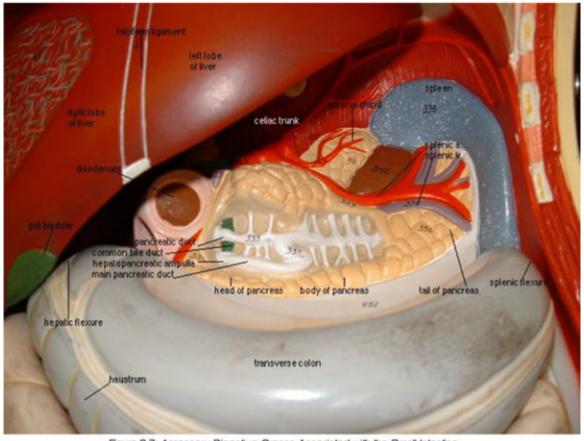
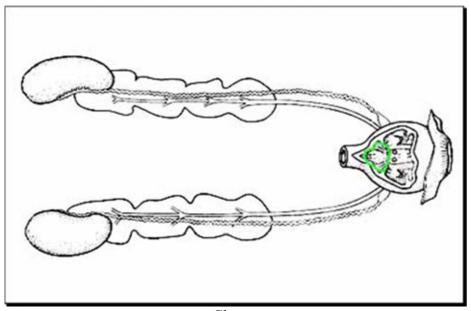
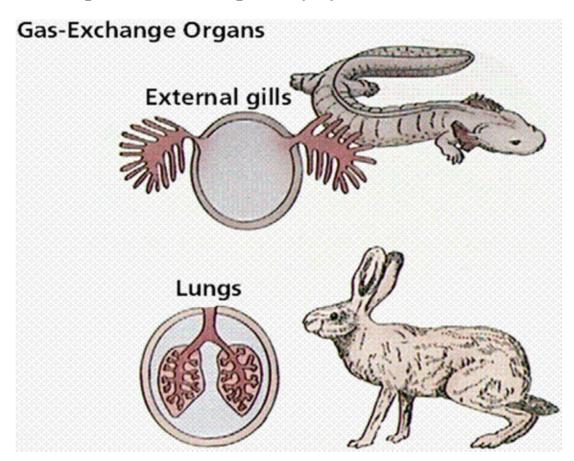


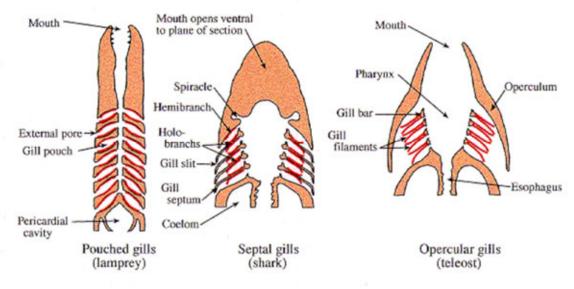
Figure 9.7: Accessory Digestive Organs Associated with the Small Intestine Human Pancreas



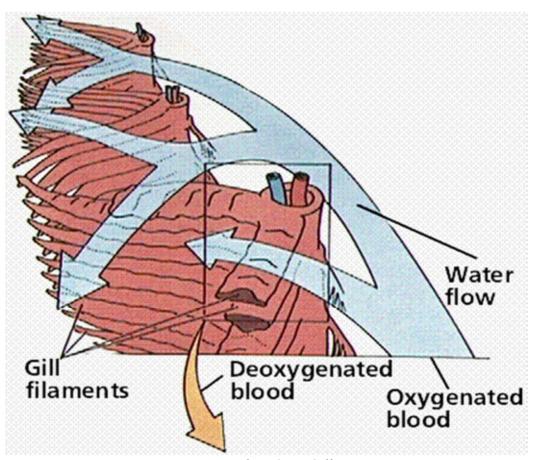
Cloaca

Chapter 13: The Respiratory System

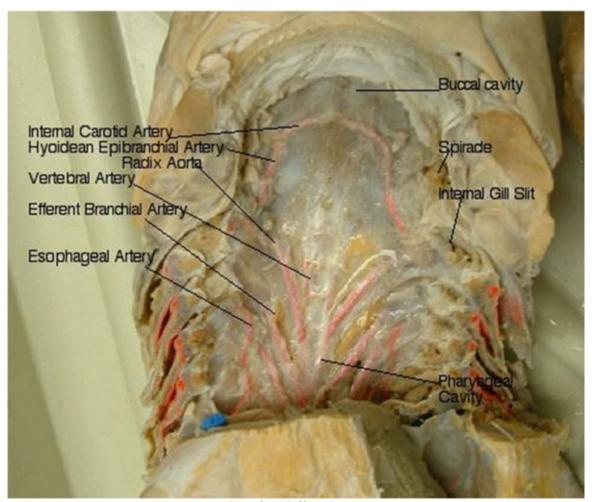




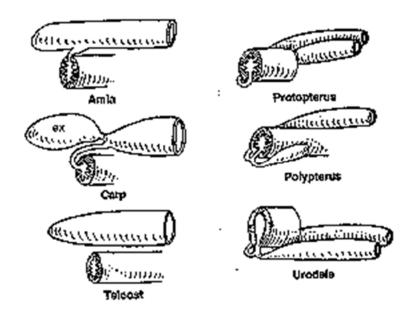
Various Gills



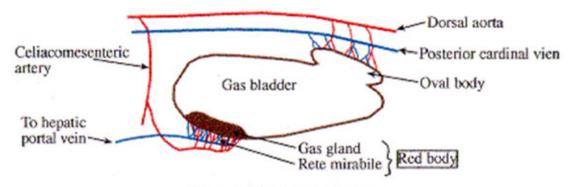
Water Flow Over Gills



Squalus Gills



A Variety of Swim Bladders



Physoclistous gas bladder

The Red Gland

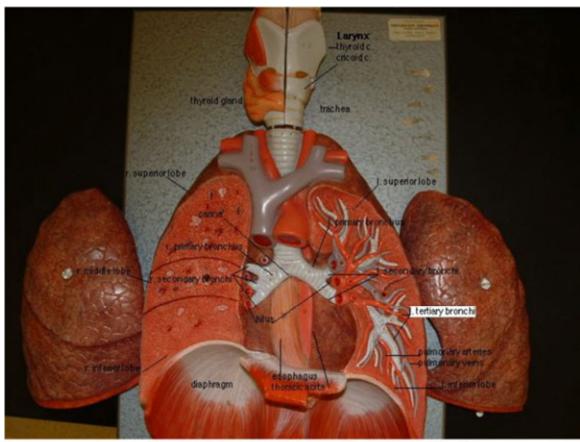
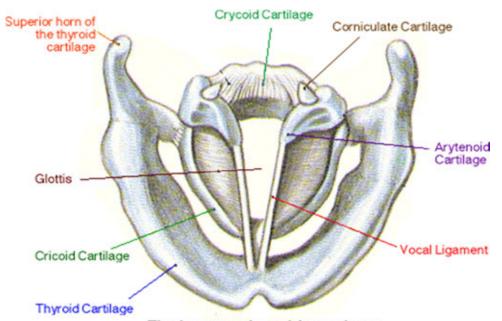
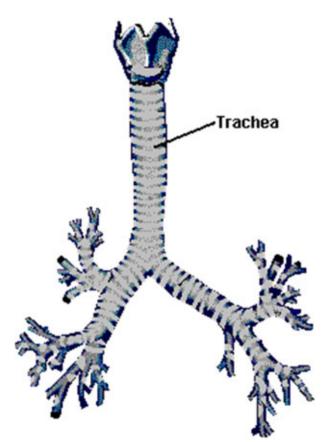


Figure 8.3 (b): Internal View of the Lungs Showing the Respiratory Tree

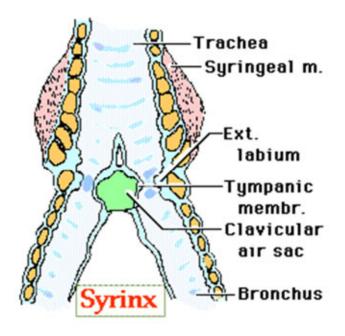
The Human "Respiratory Tree"



The Larynx: viewed from above

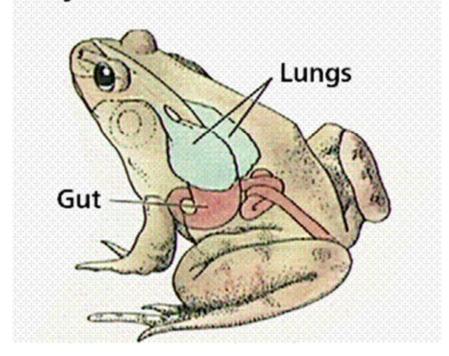


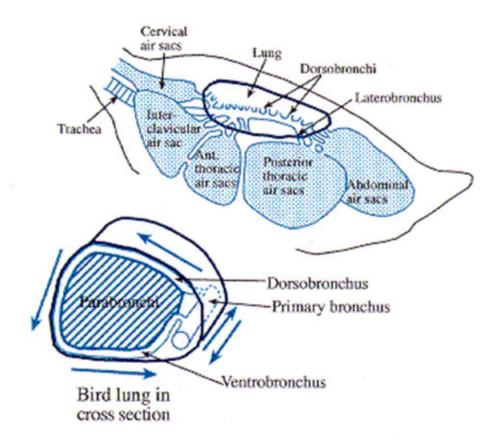
Mammalian Respiratory Tree



Tracheal Syrinx

Amphibian lungs are ventral outpocketings of the gut, though they lie dorsal to it





Bird Lungs



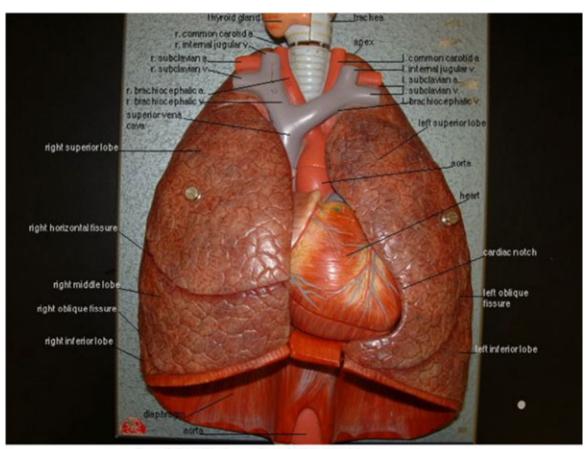
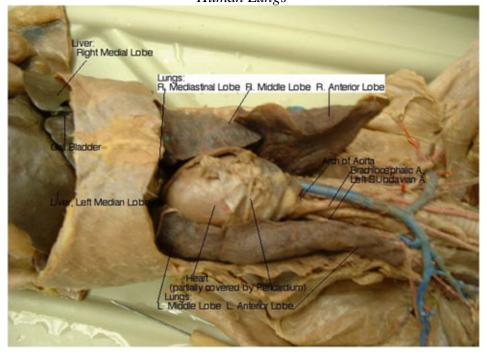
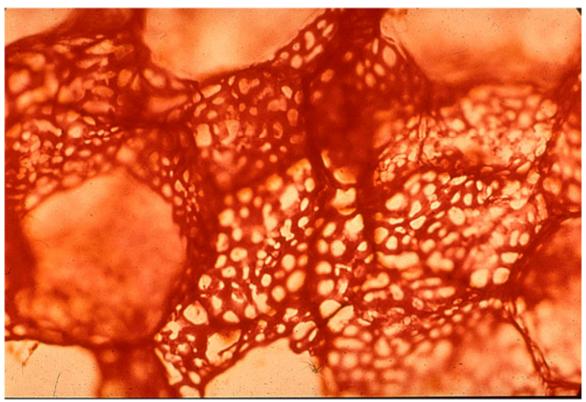


Figure 8.3 (a): The Lungs; Superficial, Anterior View Human Lungs

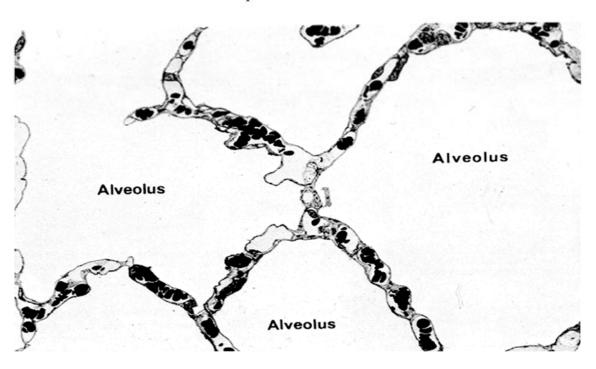


Cat: Upper Body 1

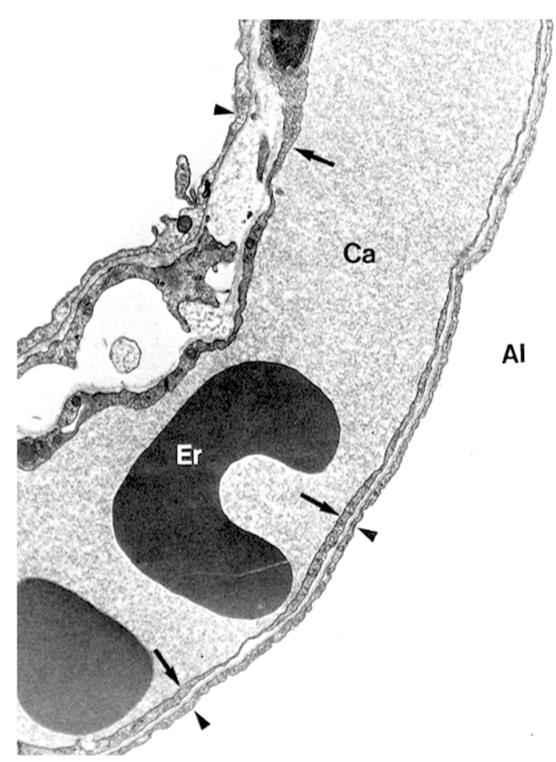
Cat Lungs



Alveoli and Capillaries in a Mammal

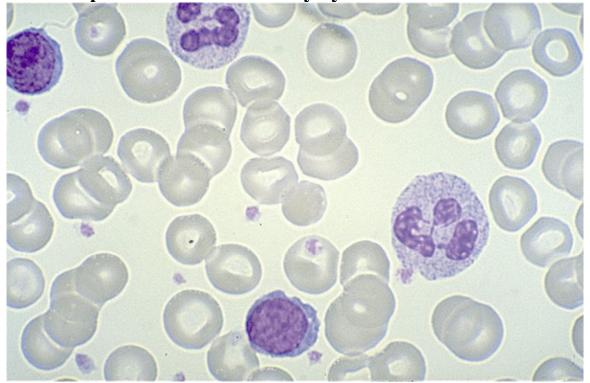


EM of Alveoli

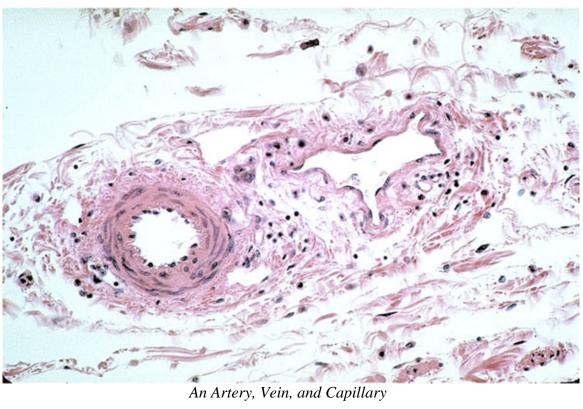


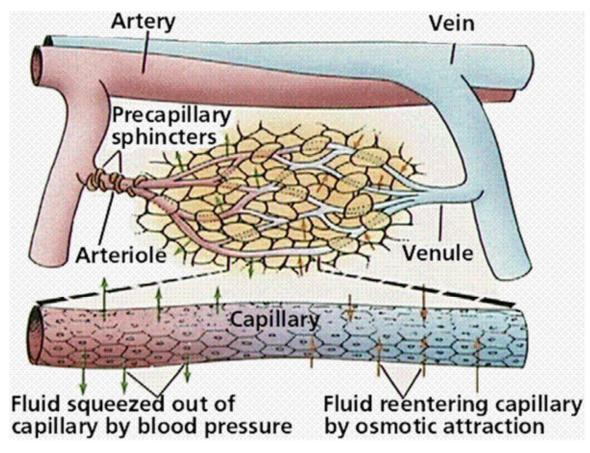
The Alveolar-Capillary Membrane/Respiratory Membrane

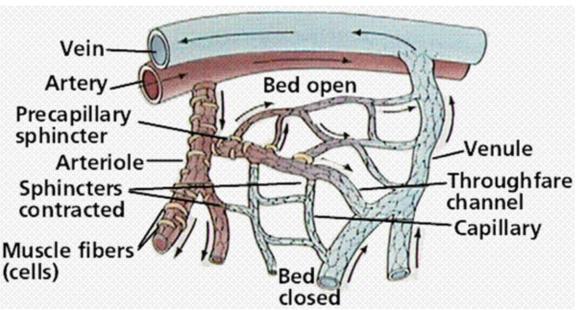
Chapter 14: The Circulatory System

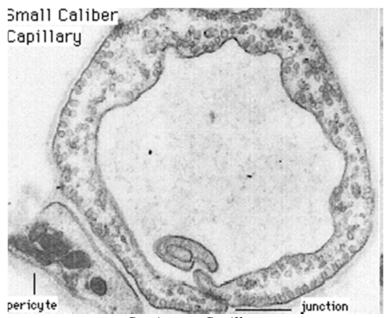


Mammalian Blood Smear

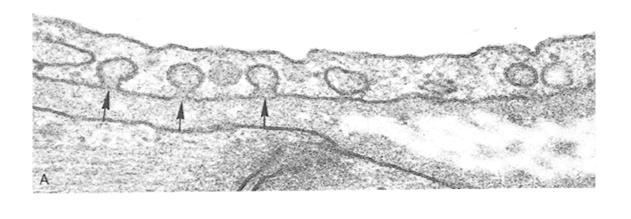


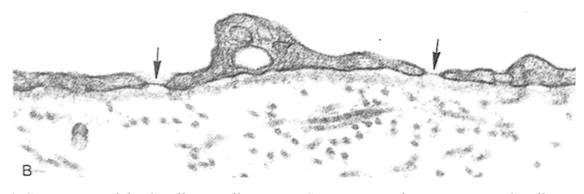




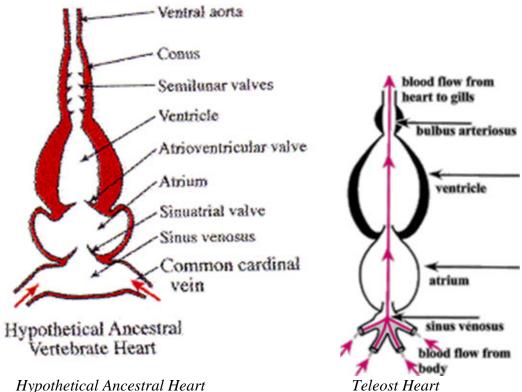


Continuous Capillary

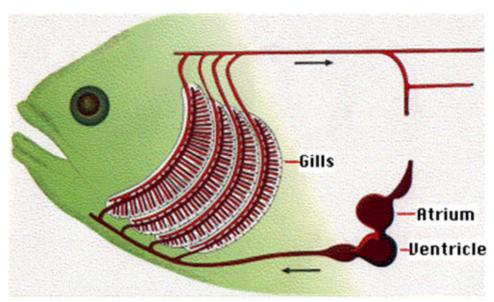




A Comparison of the Capillary Wall Between Continuous and Discontinuous Capillaries

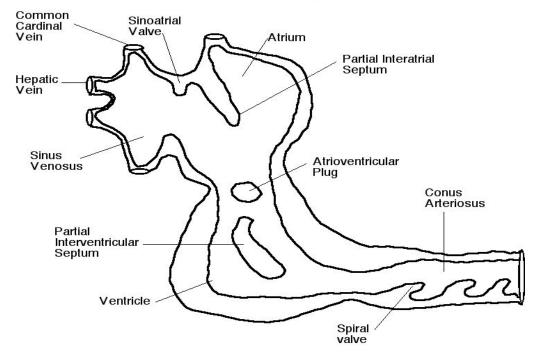


Hypothetical Ancestral Heart

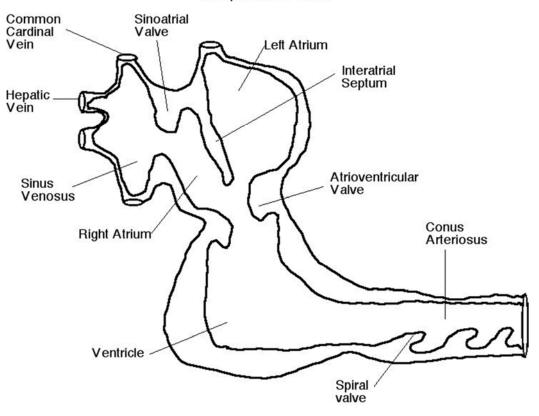


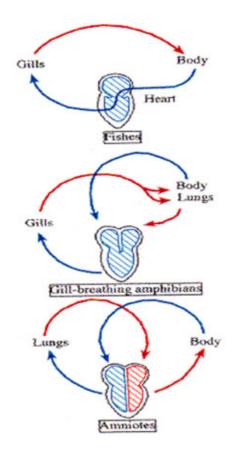
Teleost Heart

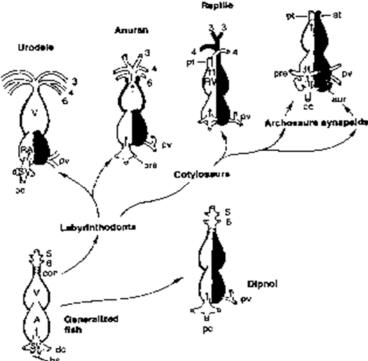
South American and African Lungfish Heart

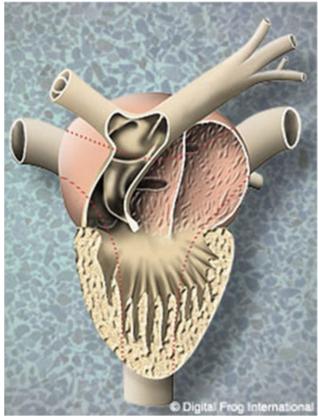


Amphibian Heart

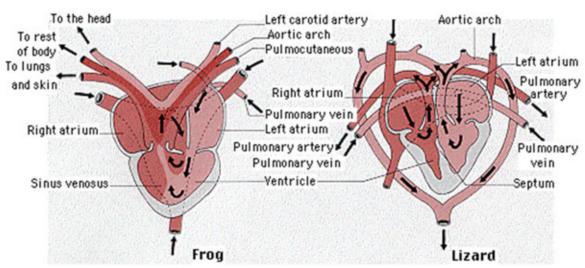




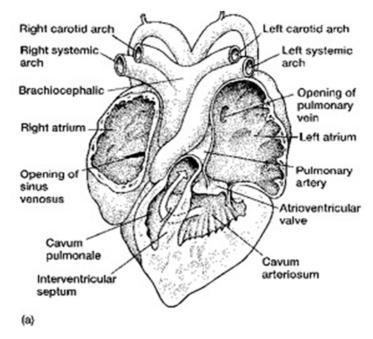




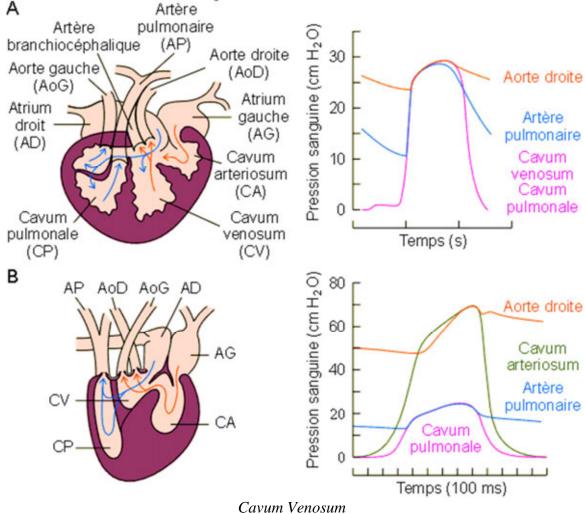
Frog Heart

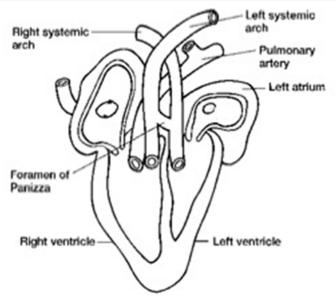


Frog vs. Lizard Hearts



Squamate and Turtle Heart





Crocodilian Heart

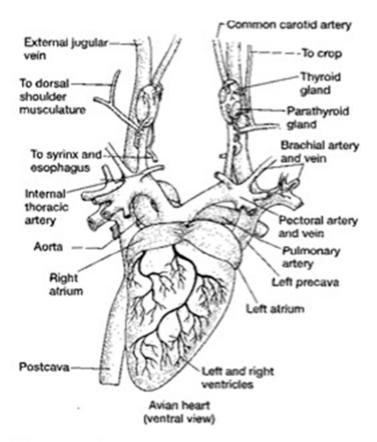
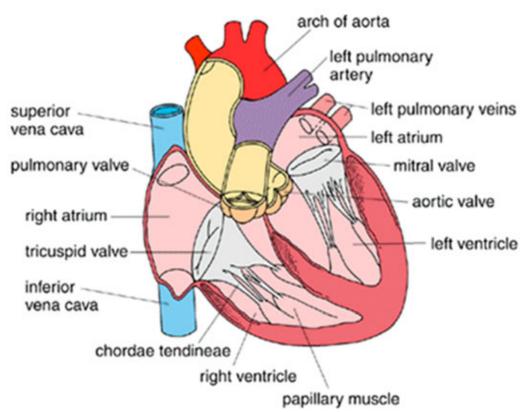
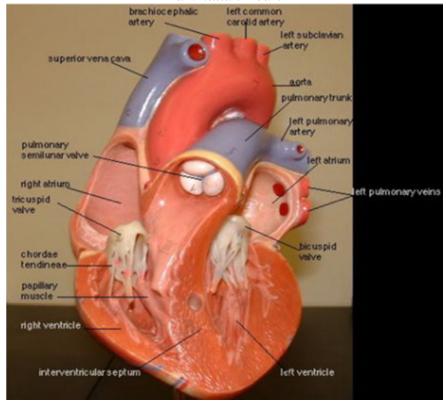


FIGURE 12.38 Avian heart, ventral view.

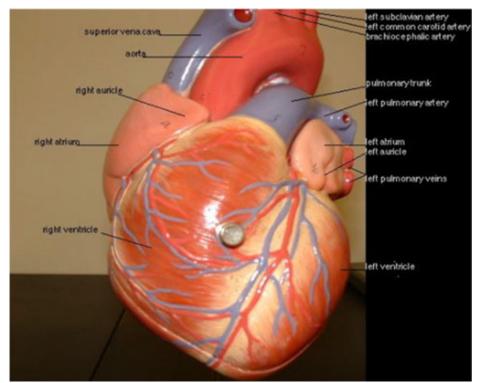
After Evans.



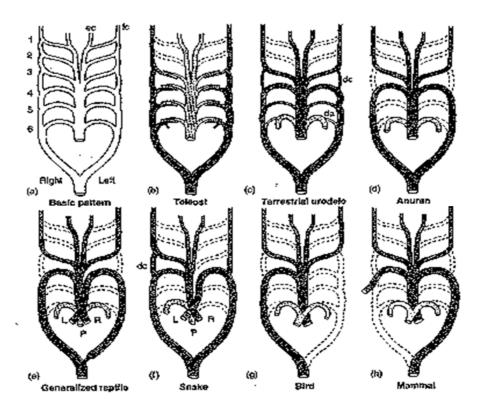
Mammalian Heart



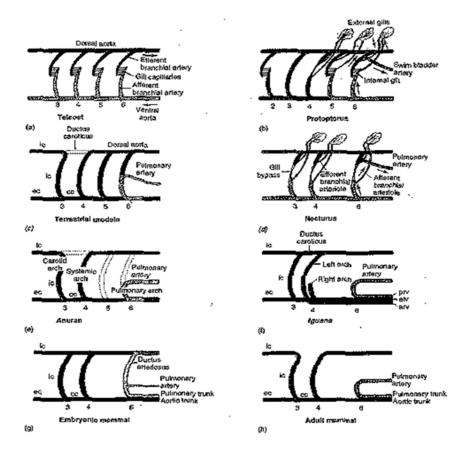
Mammalian Heart, Internal View



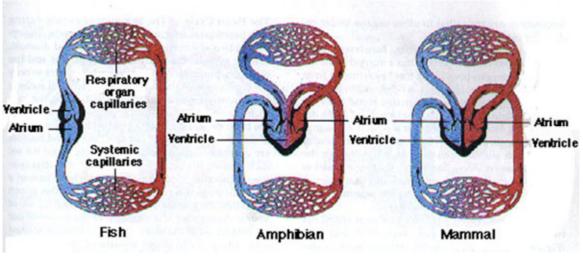
Mammalian Heart, External View



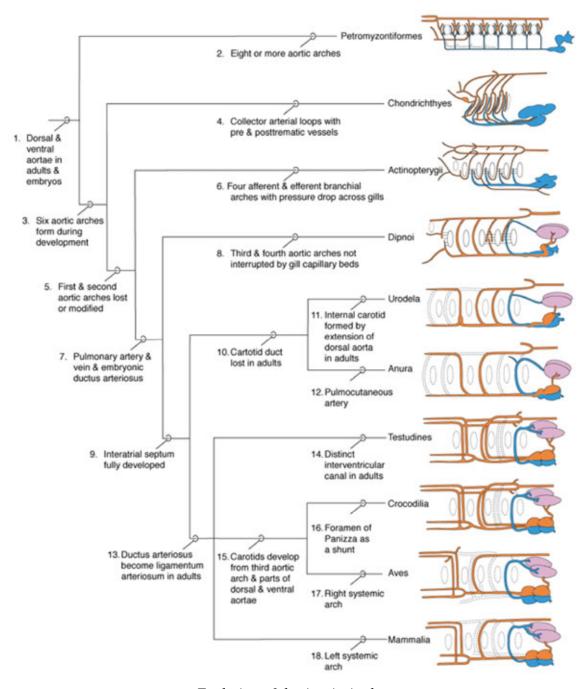
Anterior Aortic Arches



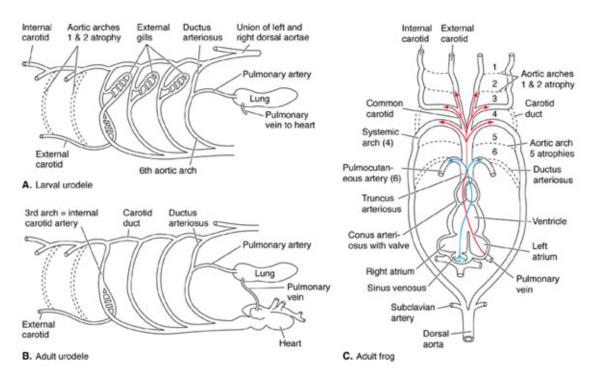
Aortic Arches



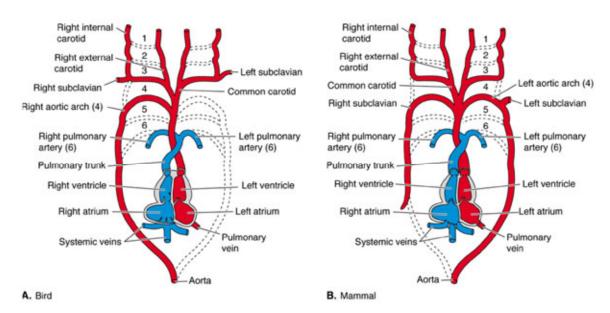
Blood Flow



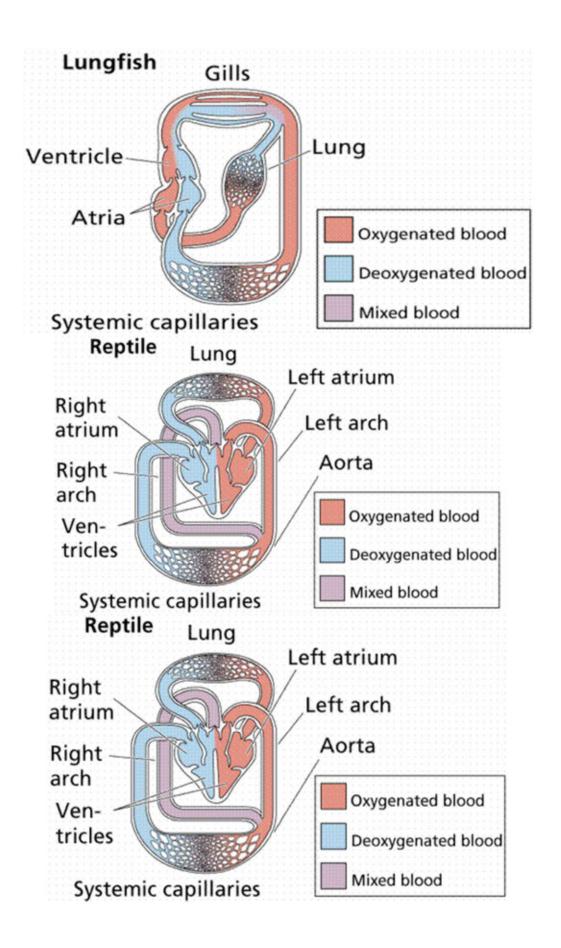
Evolution of the Aortic Arches



Amphibian Aortic Arches



Aortic Arches of Birds and Mammals



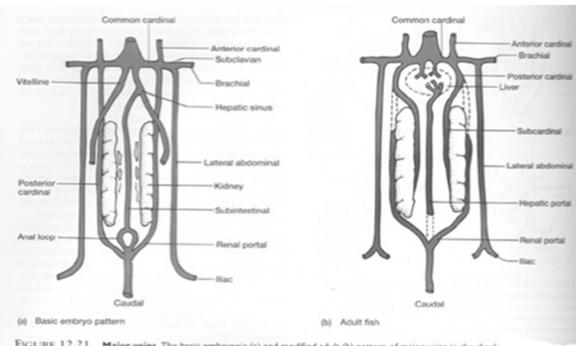
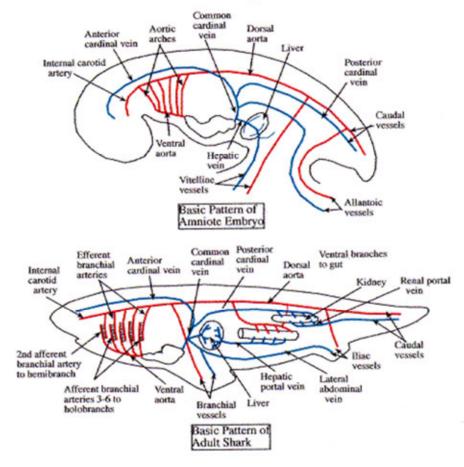
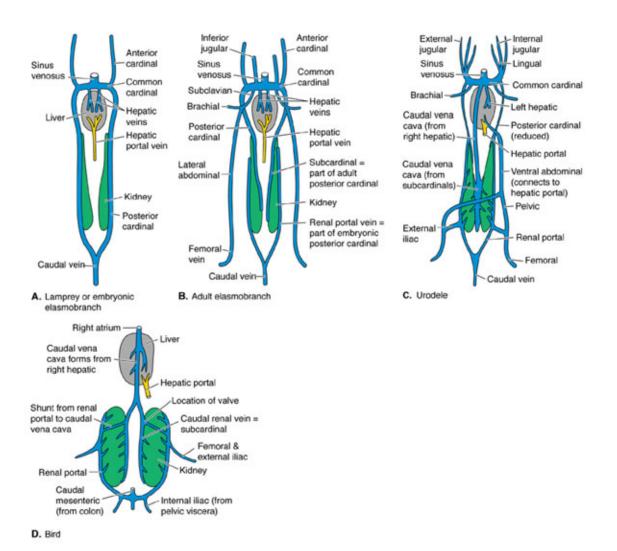


FIGURE 12.21 Major veins. The basic embryonic (a) and modified adult (b) pattern of major veins in the shark.

Vein Development



Shark Circulation



Comparative Anatomy of the Trunk Venous System

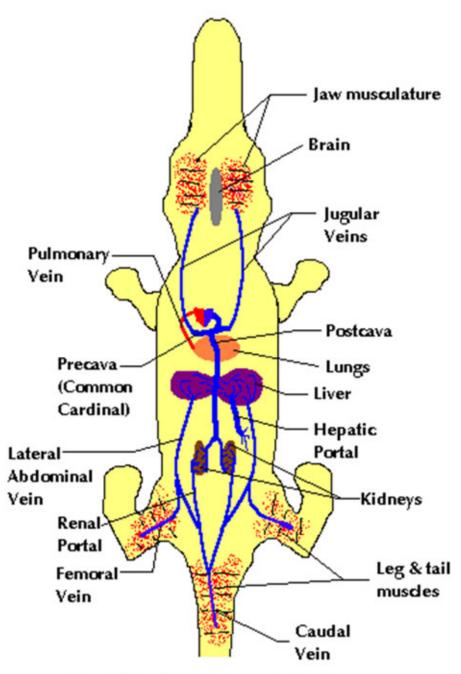


Fig. 2. Crocodylian venous circulation

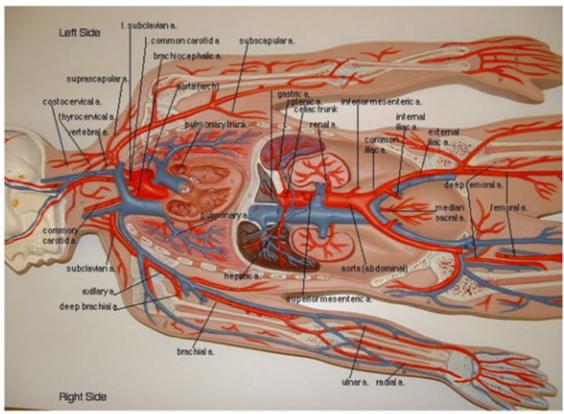


Figure 7.2 (a): Blood Vessels; The Major Arteries of the Body

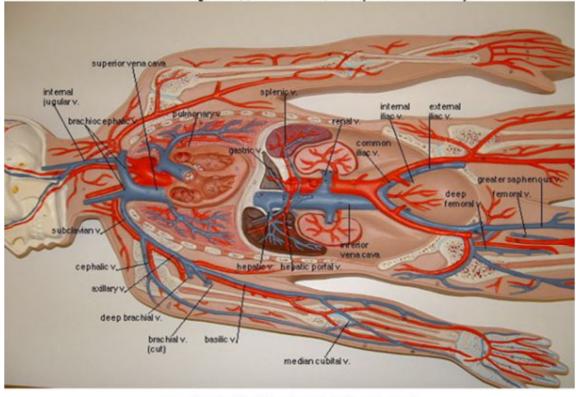
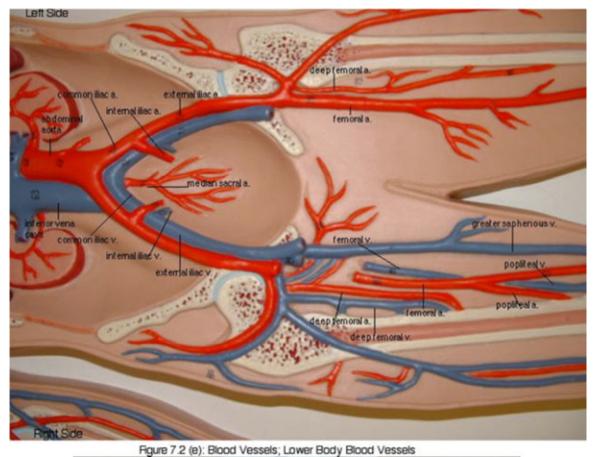
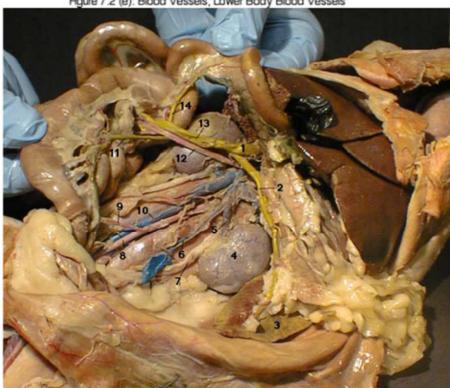


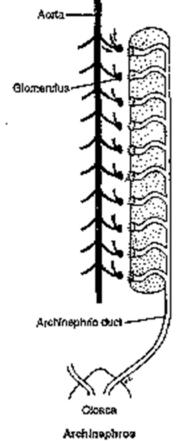
Figure 7.2 (b): Blood Vessels; Major Veins of the Body



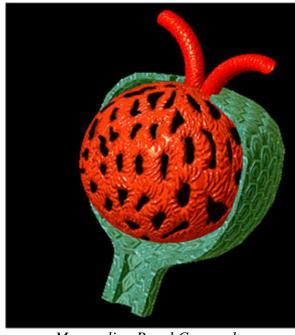


Feline Hepatic Portal System

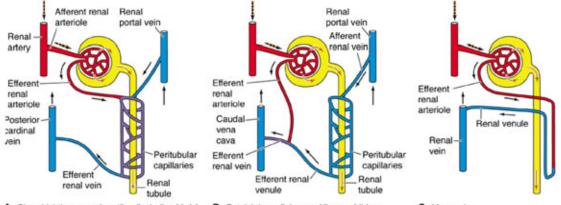
Chapter 15: The Urogenital System



Archinephros



Mammalian Renal Corpuscle

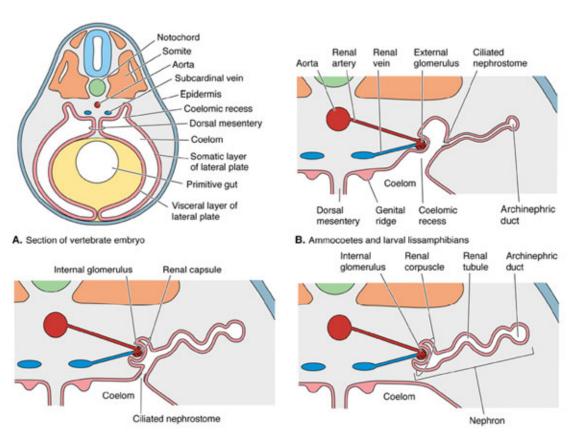


A. Chondrichthyans and reptiles (including birds)

B. Osteichthyan fishes and lissamphibians

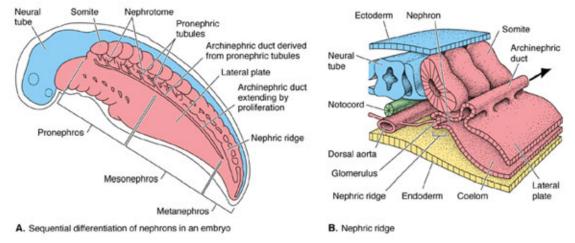
C. Mammals

A Comparison of Nephrons

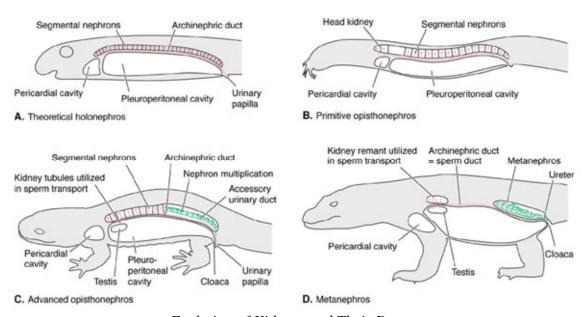


C. Elasmobranchs and some actinopterygians

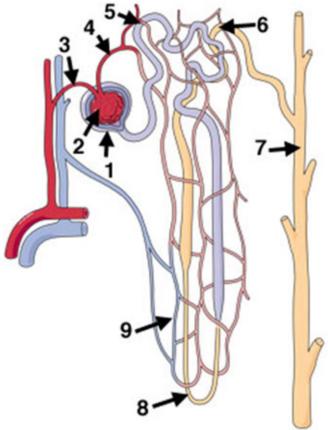
D. Most other vertebrates

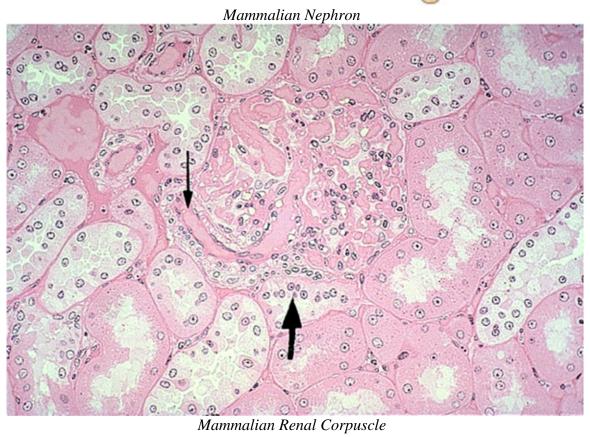


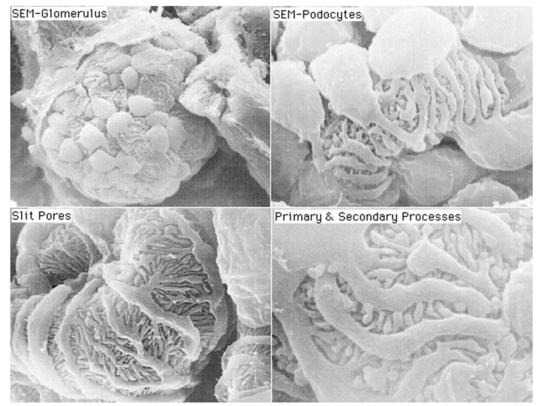
Development of the Kidneys



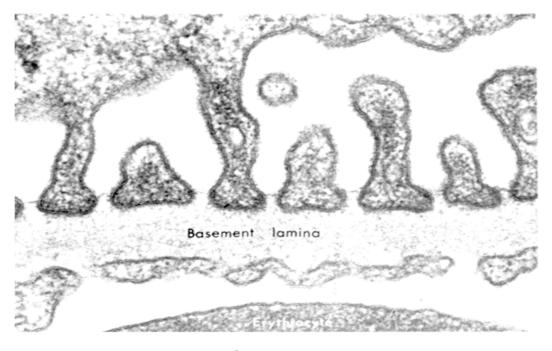
Evolution of Kidneys and Their Ducts



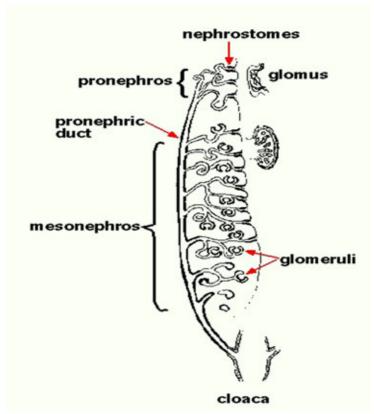




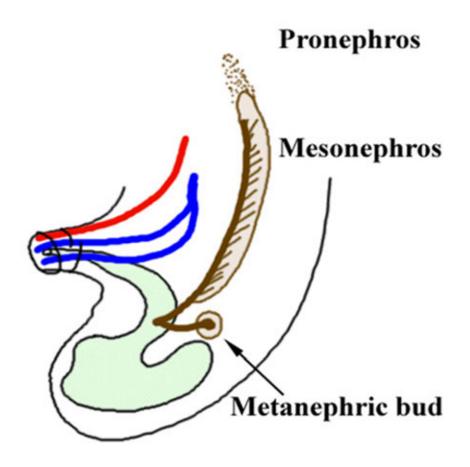
Mammalian Podocytes



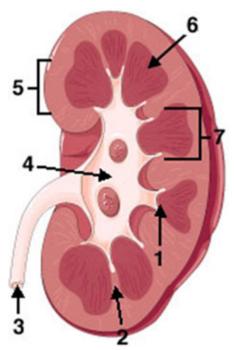
Filtration Barrier



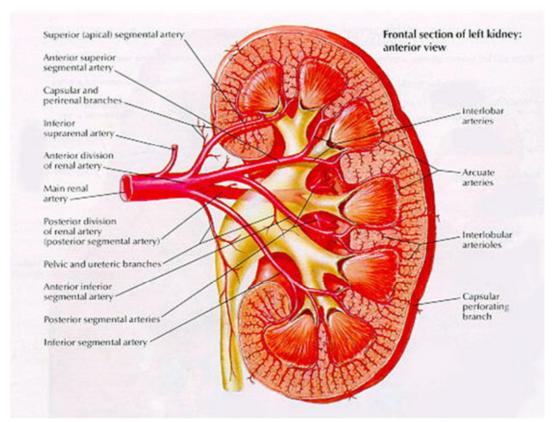
Pronephros



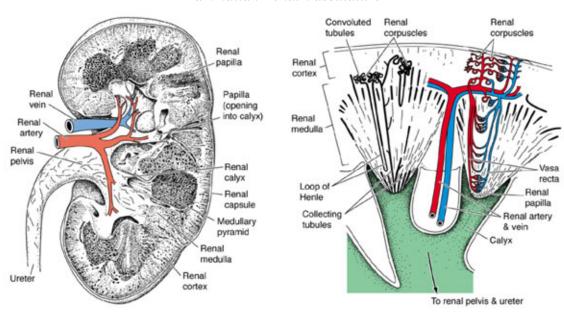
Kidney Development



Mammalian Kidney, X.S.

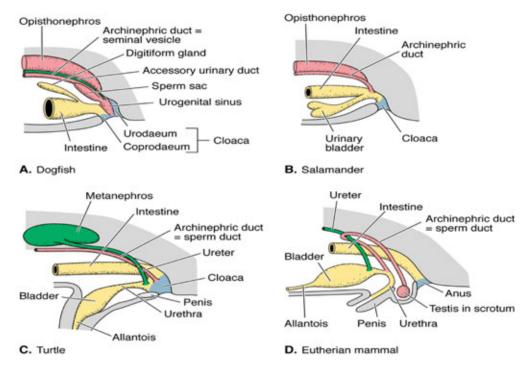


Mammalian Renal Vasculature

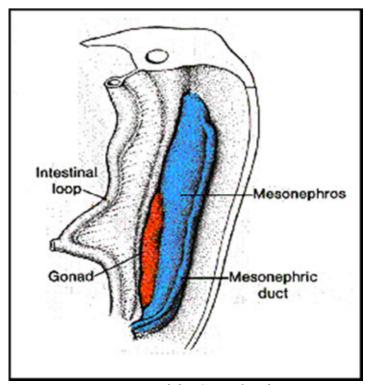


A. Section through a mammalian kidney

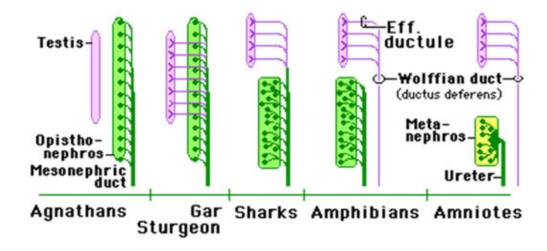
B. Mammalian kidney tubules in relationship to circulation



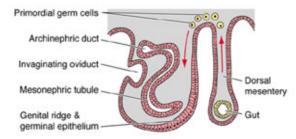
Cloaca



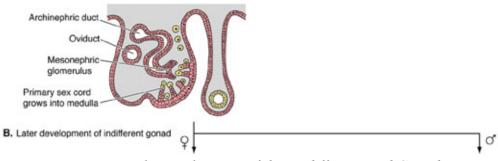
Formation of the Genital Ridge



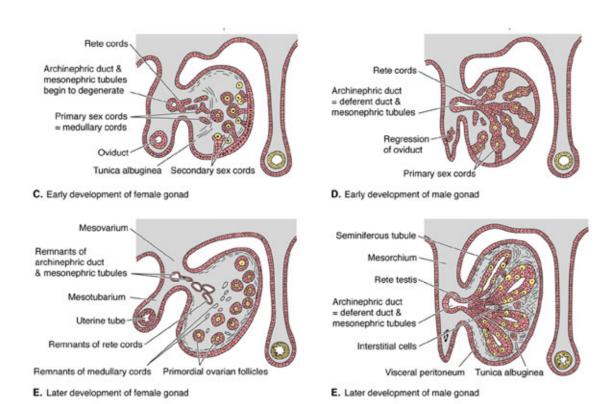
Male Urogenital Relations



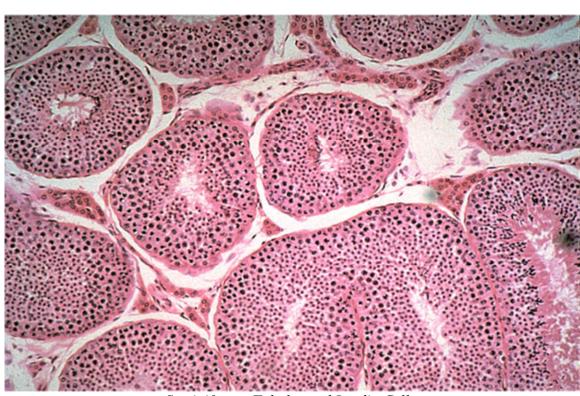
A. Early development of indifferent gonad



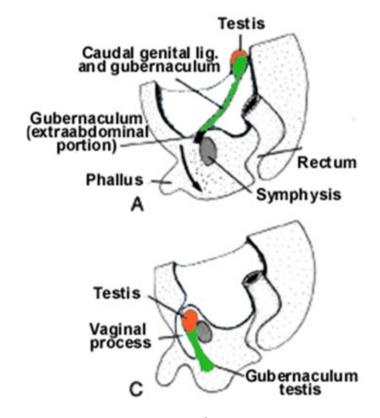
Early Development of the Undifferentiated Gonad



Development of Male and Female Gonads



Seminiferous Tubules and Leydig Cells



Descent of Testes

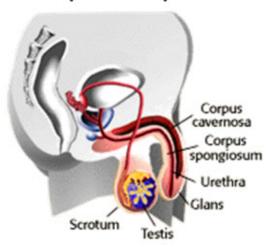


Claspers

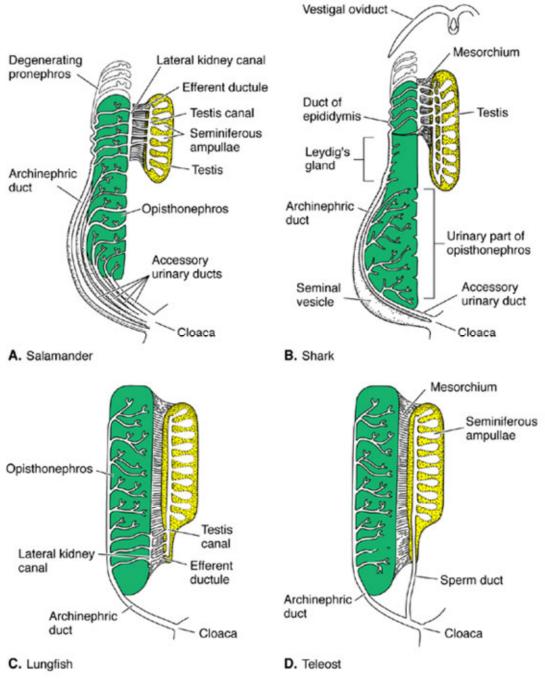


Hemipenes

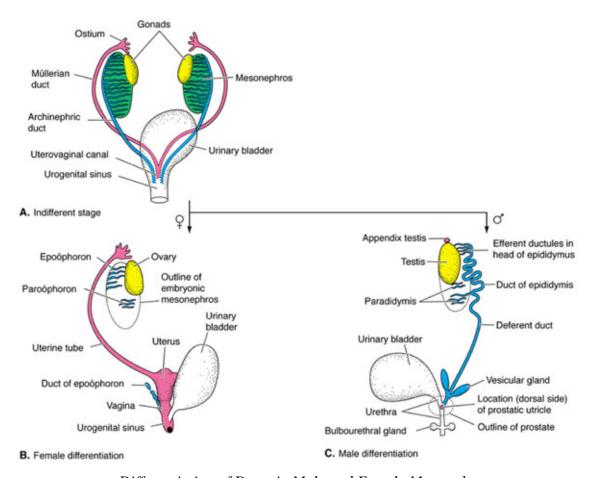
Male reproductive system



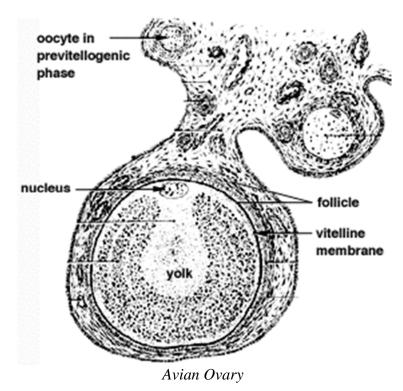
Human Male Reproductive System

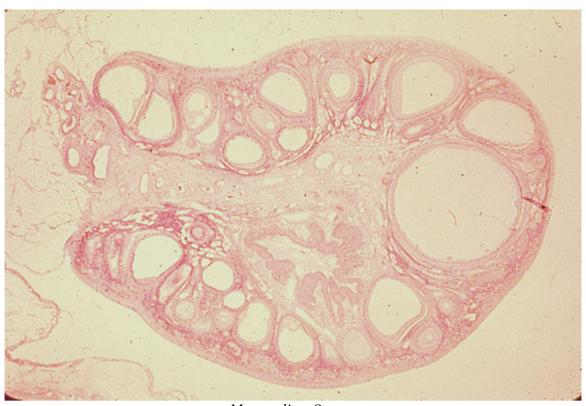


Male Reproductive Tracts

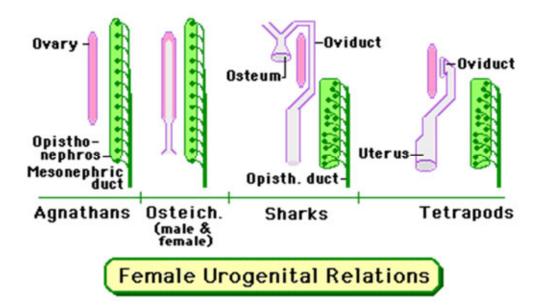


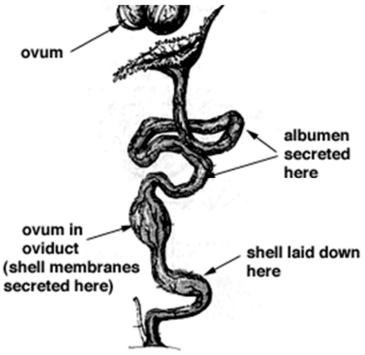
Differentiation of Ducts in Male and Female Mammals





Mammalian Ovary





Avian Oviduct

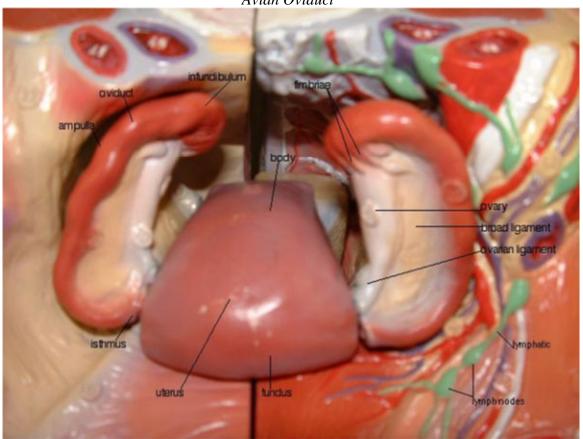
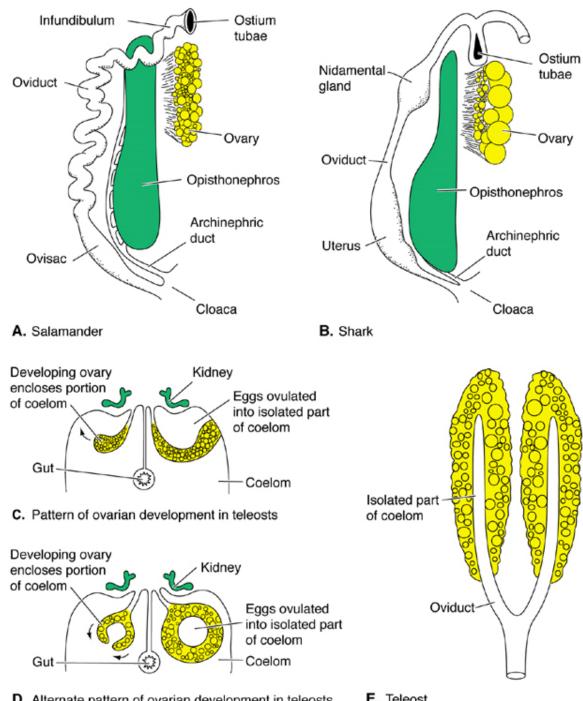
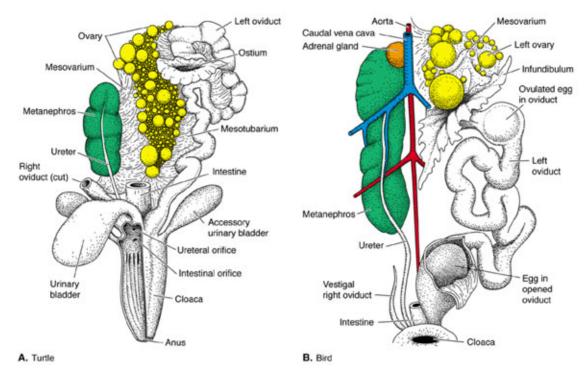


Figure 11.2: The Uterus, Oviducts, and Ovaries
Human Ovaries and Oviducts

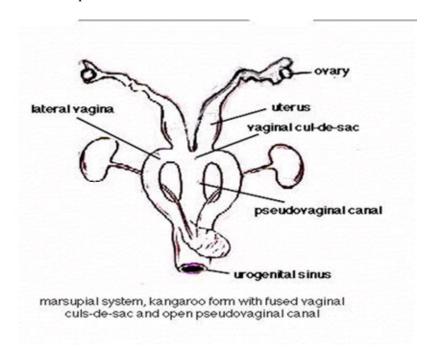


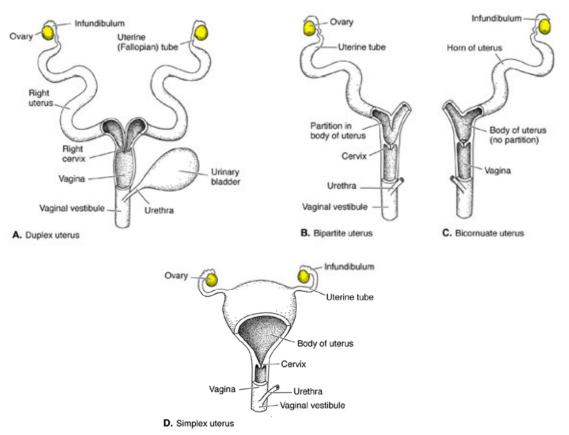
E. Teleost D. Alternate pattern of ovarian development in teleosts

Reproductive Tracts in Female Anamniotes

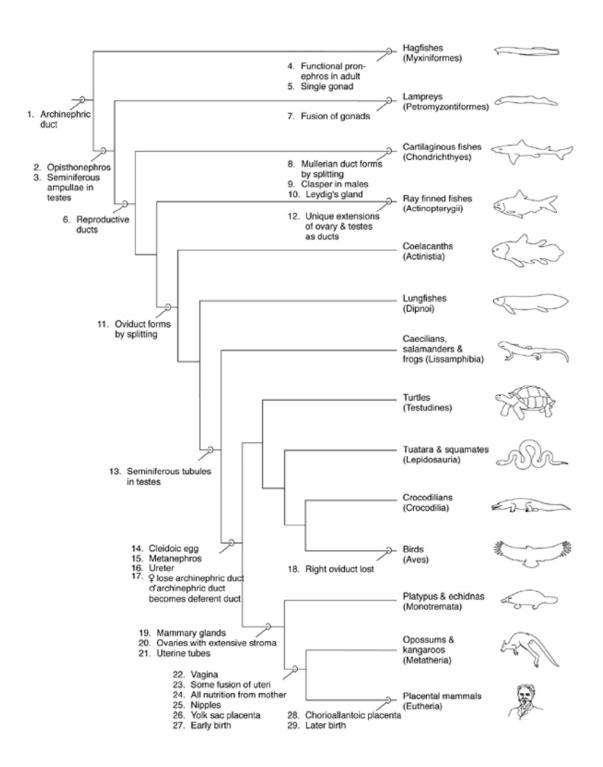


Reproductive Tracts in Female Turtle and Bird





Types of Mammalian Uteri



Chapter 16: The Nervous System

Peripheral N.S. C.N.S. Peripheral N.S.

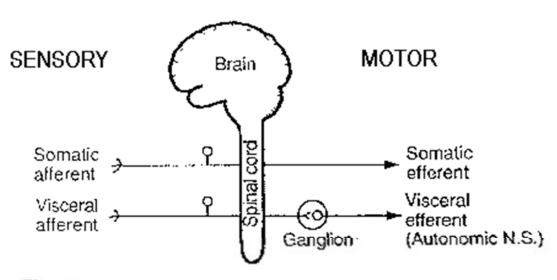
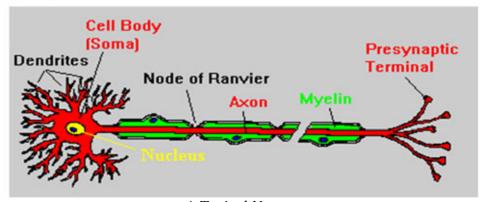


Fig. 1
The organisation of the Nervous System.





Motor Neuron Perikaryon Showing Nissl Substance

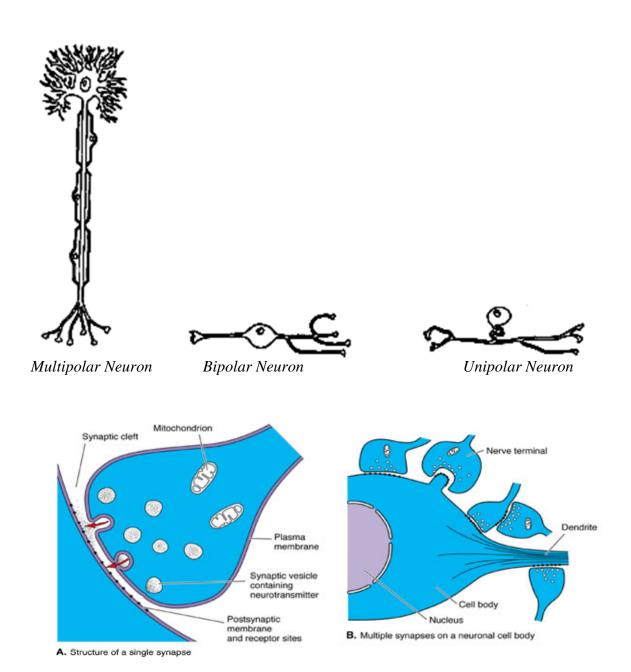
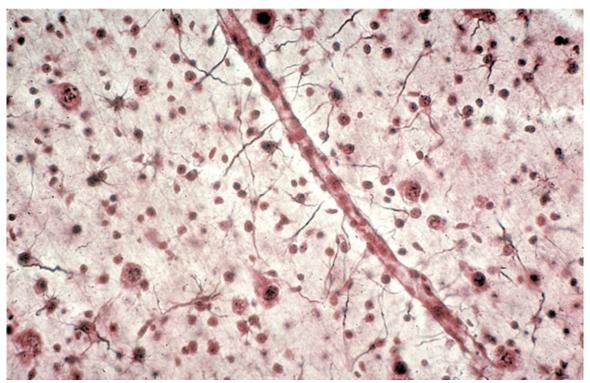
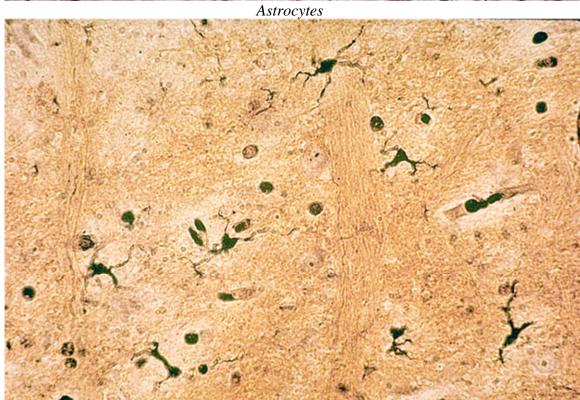
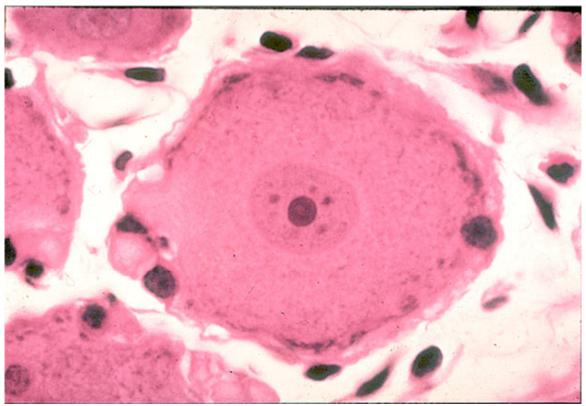


Fig. 13.3

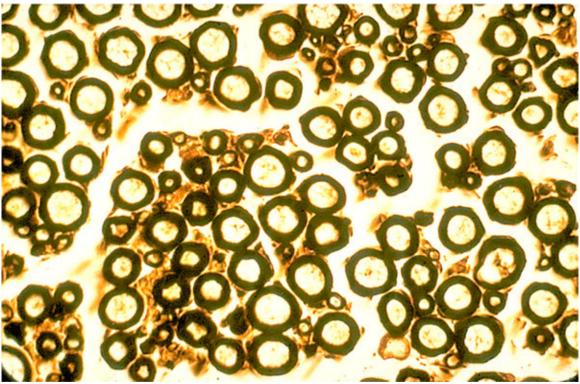




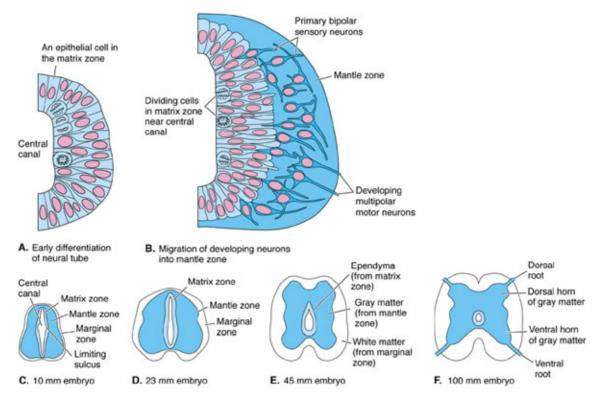
Microglia



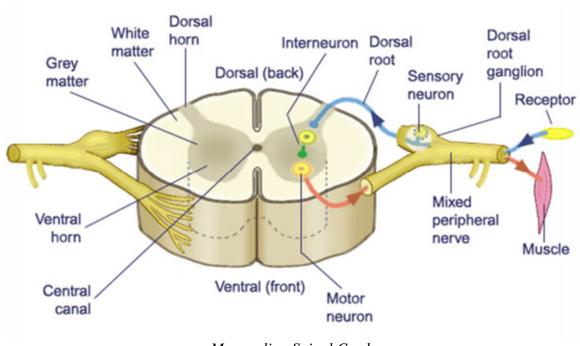
Perikaryon and Satellite Cells in a Ganglion



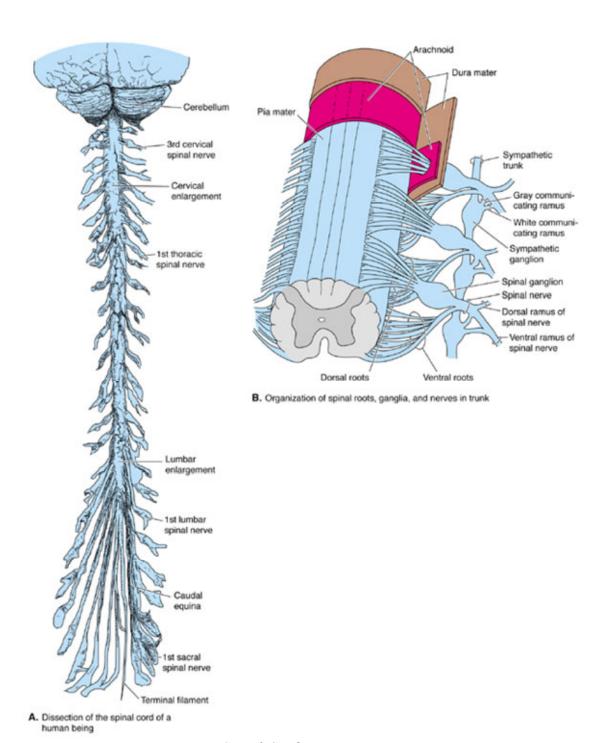
Special Stain Showing Myelin of Schwann Cells Surrounding Axons in a Nerve Organ



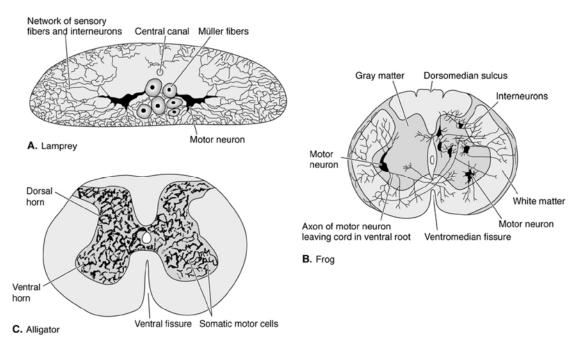
Growth and Differentiation of the Neural Tube



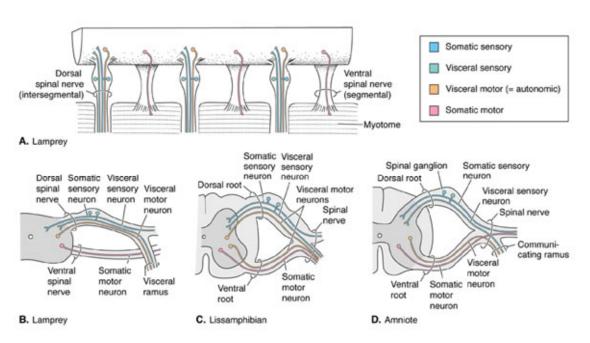
Mammalian Spinal Cord



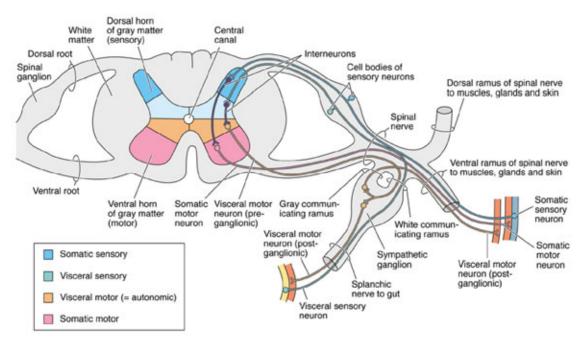
Spinal Cord in a Human



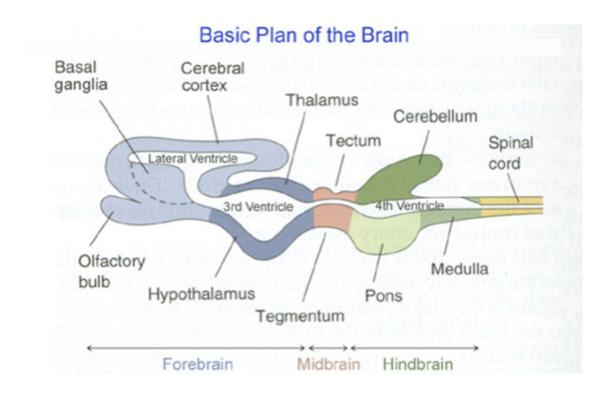
Comparison of Spinal Cords



Comparison of Spinal Cord-Spinal Nerve Information Pathways



Spinal Cord-Spinal Nerve Information Pathways in a Mammal



The Neural Tube Development

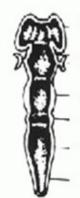
Prosencephalon

Mesencephalon

Rhombe nosphalon

Spinal Postion

The Neural Tube Development



Te knoep halon

Diencephalon

Mesencephalon

Metencephalon

Mylencephalon

Spinal Portion

The Neural Tube Development

Te knoep halon

Diencephalon

Mesencephalon

Mete noephalon

Mylencephalon

Spinal Portion

Cerebaal Hemispheses

Thalamus

Midbanin

Fons and Cerebellum

Medulla

Spinal Coad

Brain Development

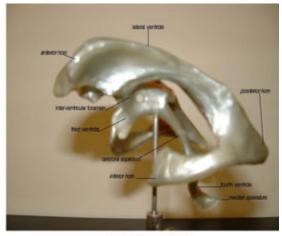


Figure 6.2: The Ventides of the Brain Ventricles

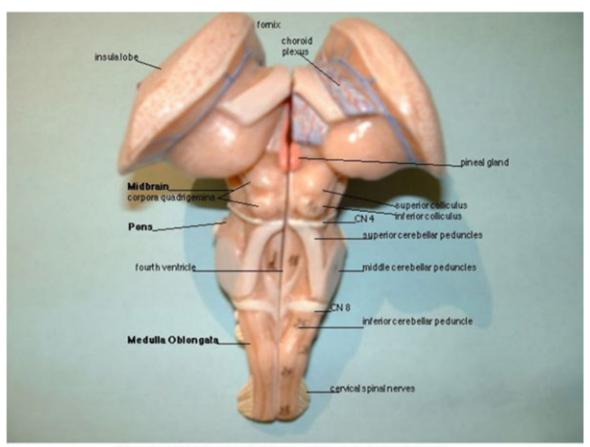


Figure 6.1 (d): Brain Stem (with Insula and Diencephalon); Posterior View

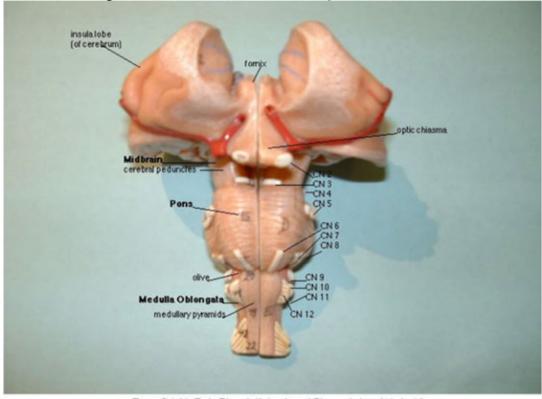
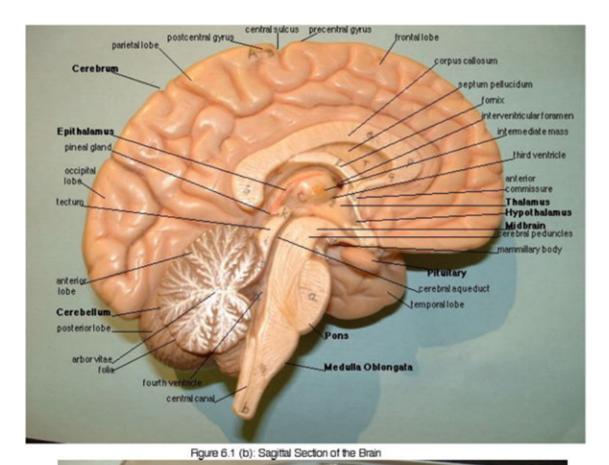


Figure 6.1 (c): Brain Stern (with Insula and Diencephalon; Anterior View



posterioriobe

posterioriobe

posterioriobe

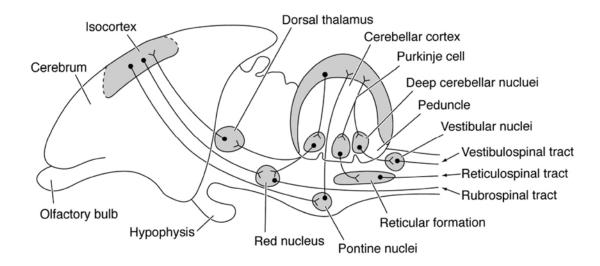
cerebellar peduncles

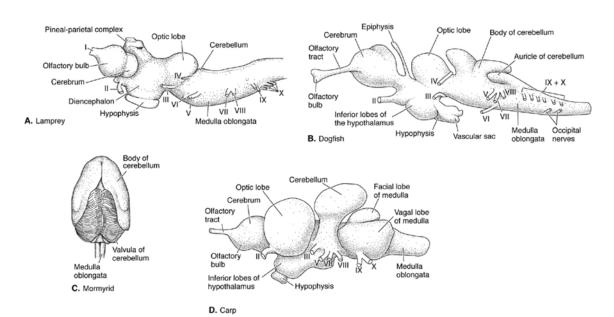
right hemisphere

left hemisphere

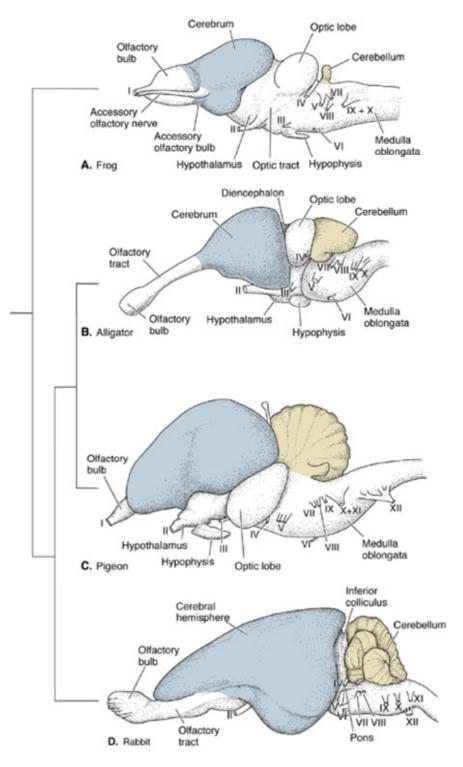
hostzonial fisaure

Figure 6.1 (e): Cerebellum; Anterior View

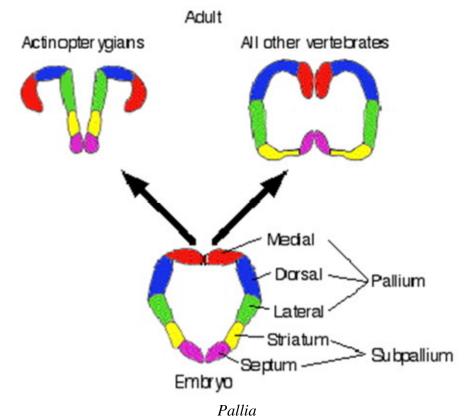


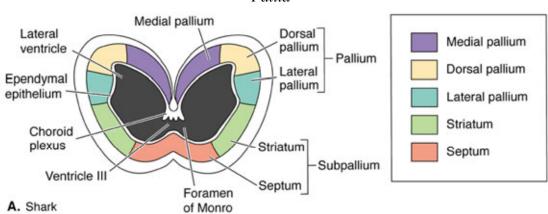


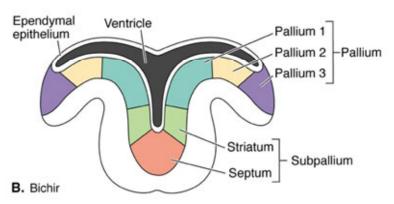
Fish Brains



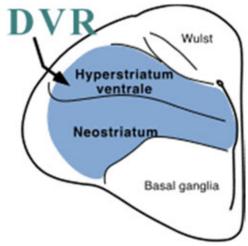
Tetrapod Brains



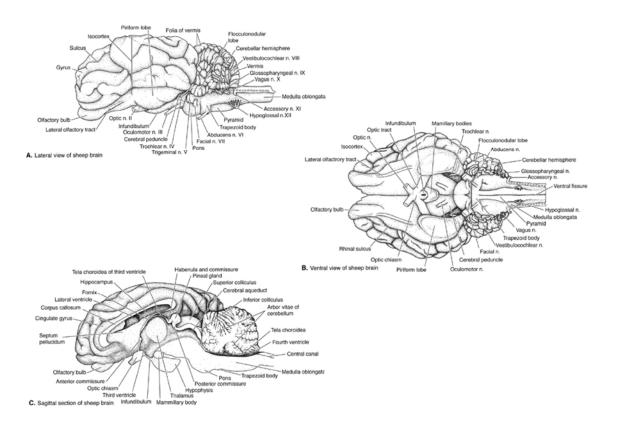




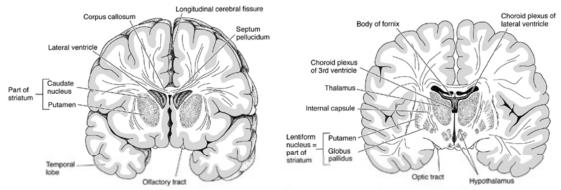
A Comparison of Fish Pallia



Dorsal Ventricular Ridge

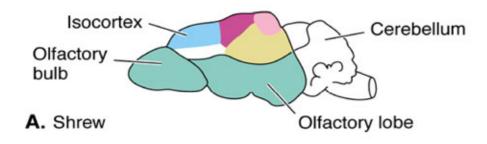


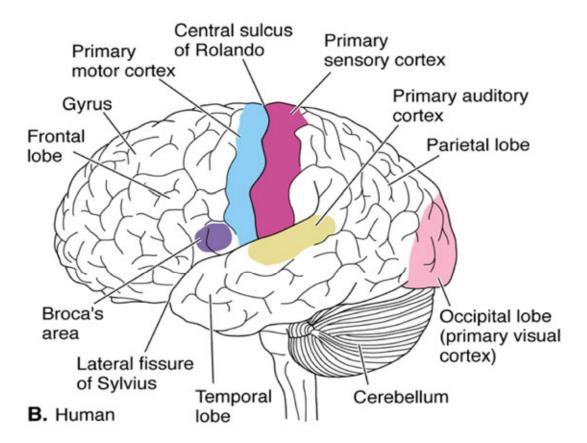
Sheep Brain



A. Transverse section through cerebrum and corpus striatum of human

B. Transverse section through cerebrum and thalamus of human





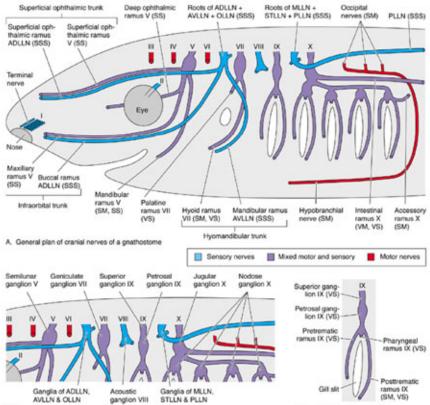


Fig. 13.18

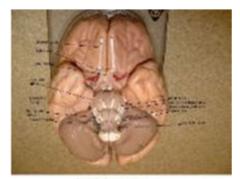
Ganglia of ADLLN. Acoustic ganglia of MLLN. STLLN & PLLN

B. General terminology for cranical nerve ganglia of a gnathostome

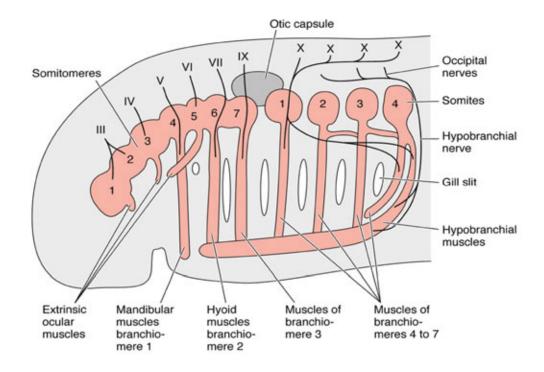
Ganglia of MLLN. STLLN & PLLN

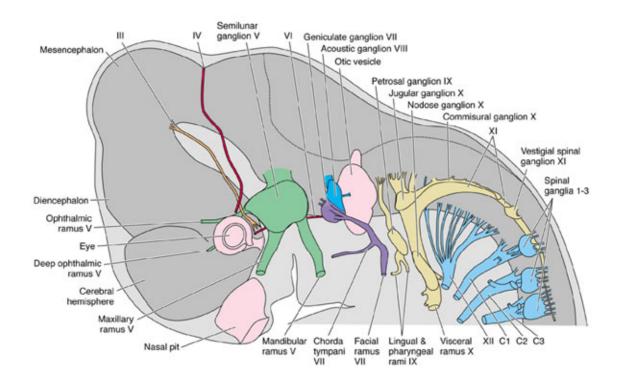
Gitt slit V ramus IX (SM, VS)

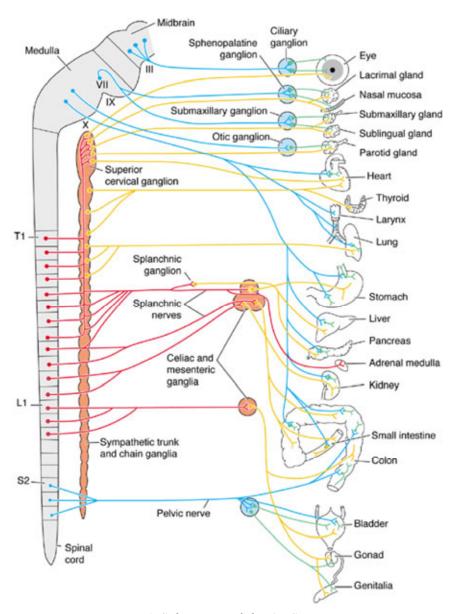
C. Detail of the major rami of IX



Special For Sans Syres Made than the colorest Original II

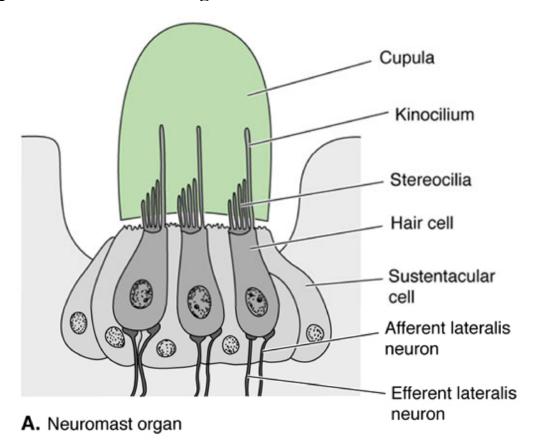


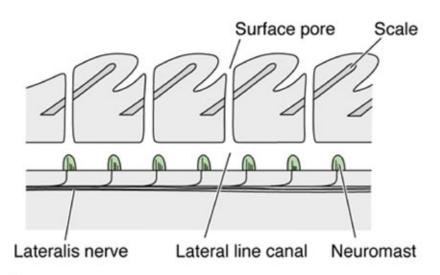




A Schematic of the ANS

Chapter 17: The Sense Organs





B. Neuromasts in lateral line canal

External vs. Internal Neuromast Organs

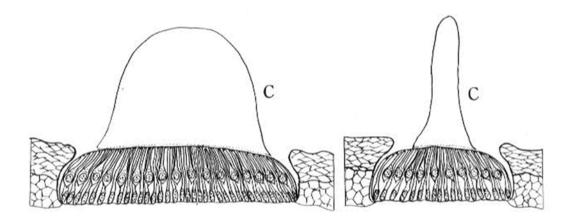
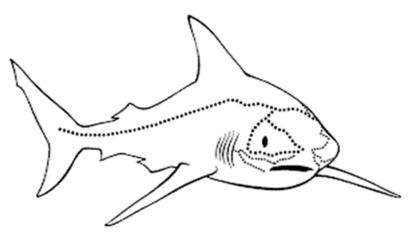
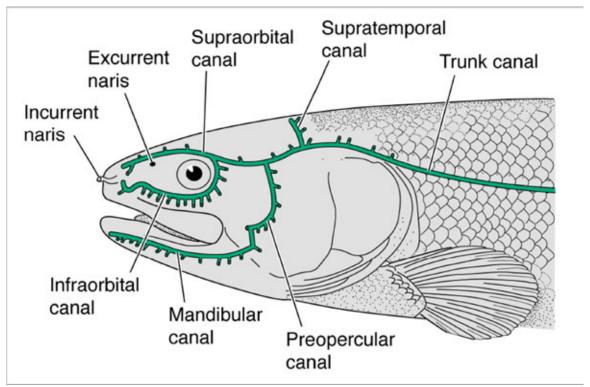


Fig. 10-4. Longitudinal (left) and transverse (right) sections of a groove organ in the head of the medaka. c, cupula. Original.

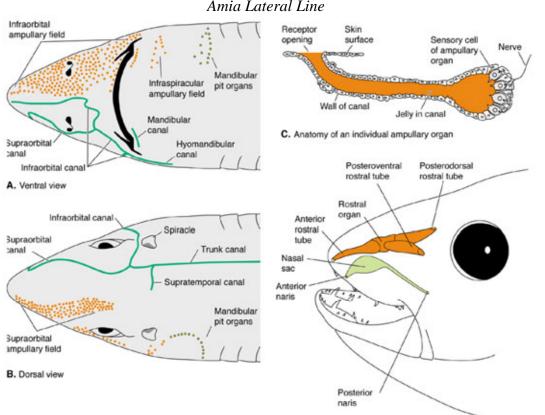
External Neuromast Organs



Shark Lateral Line



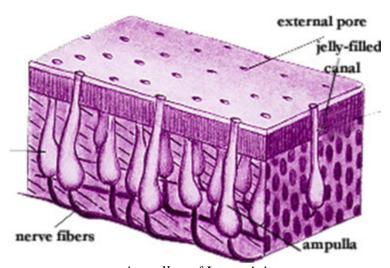
Amia Lateral Line



D. The rostral organ of Latimeria



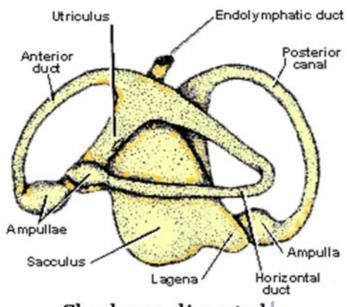
Ampullae of Lorenzini Distributed Over the Head of a Shortfin Mako



Ampullae of Lorenzini



A Comparison of Vertebrate Internal Ears



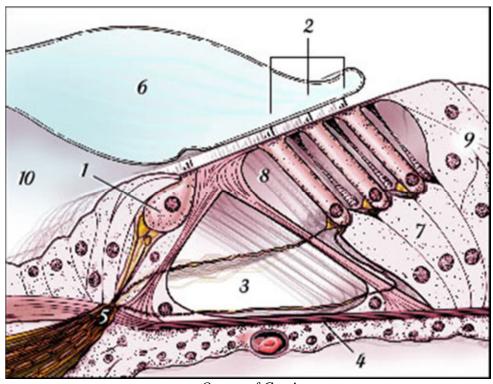
Shark ear, dissected

Shark Internal Ear

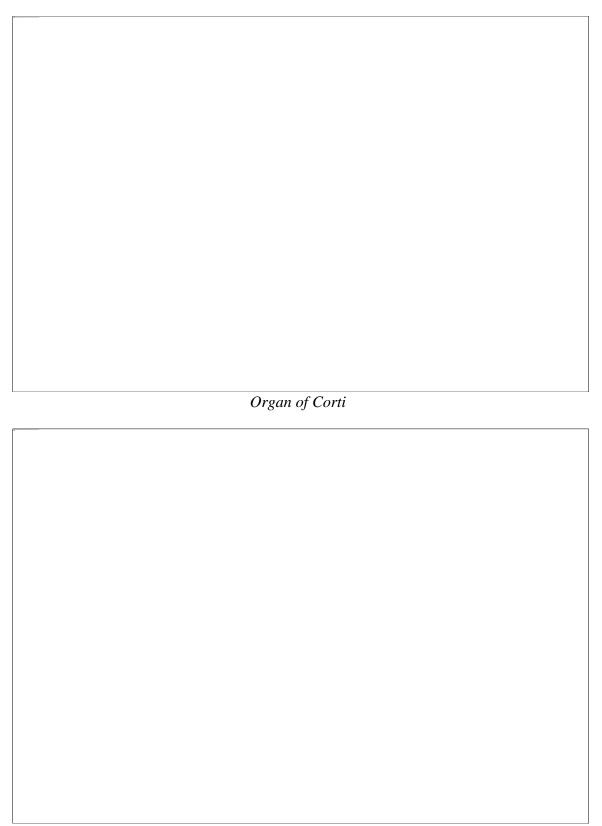
Typical Gnathostome Membranous Labyrinth					
-					



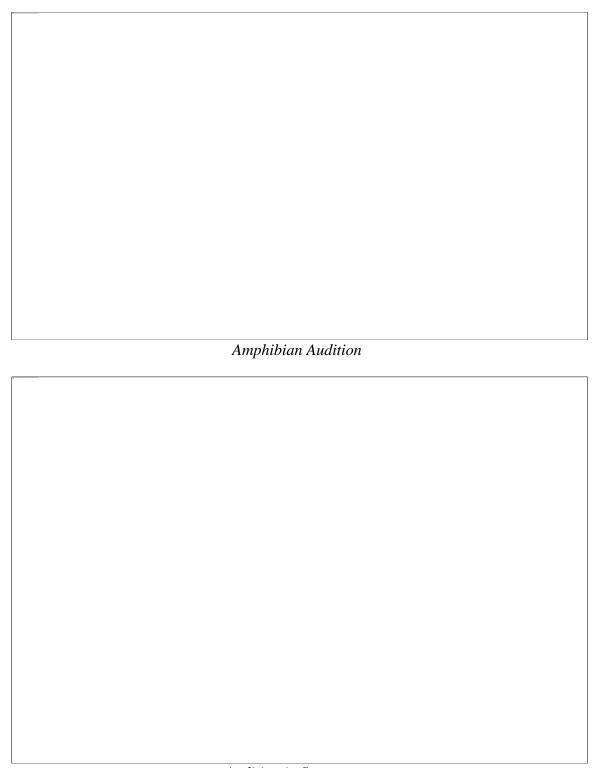
Crista Ampullaris



Organ of Corti

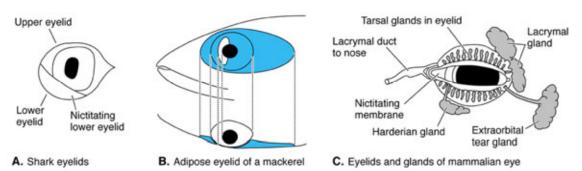


Teleost Auditory Mechanism



Audition in Squamates

_		
	Human Ear	
	Hillitti Lai	



Palpebrae





Development of the Eye

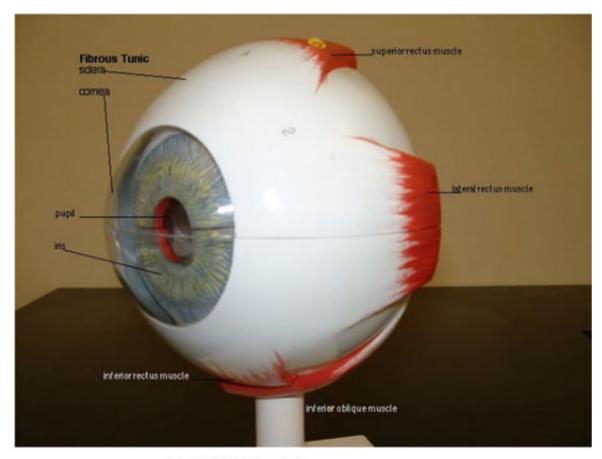
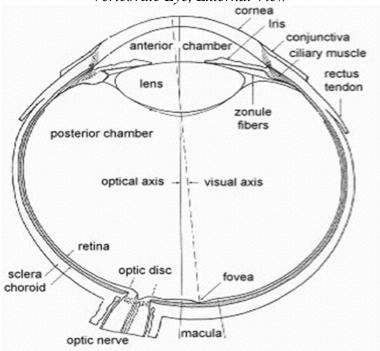


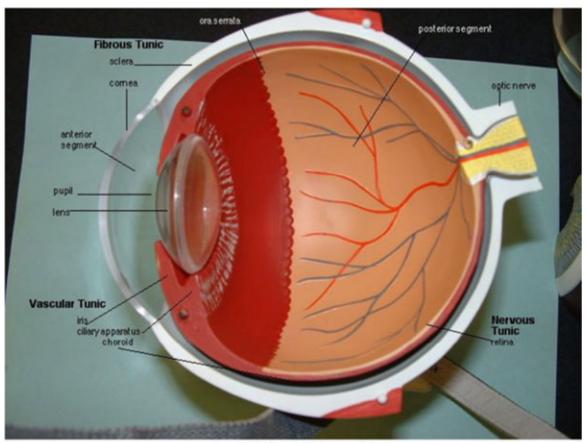
Figure 6.6 (a): The Eye; Left

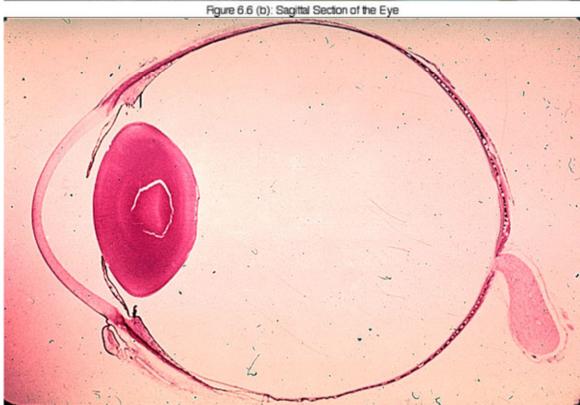
Vertebrate Eye, External View

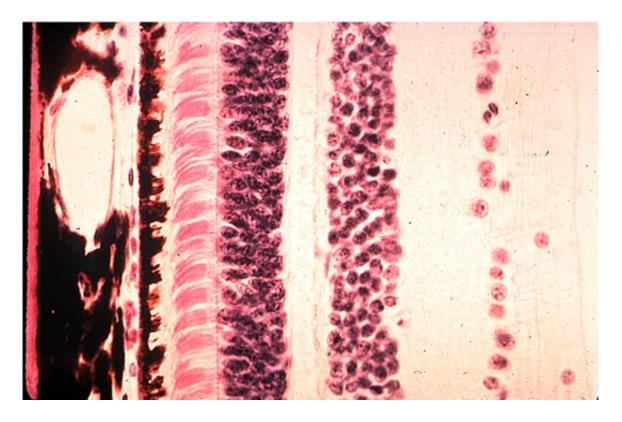
comea



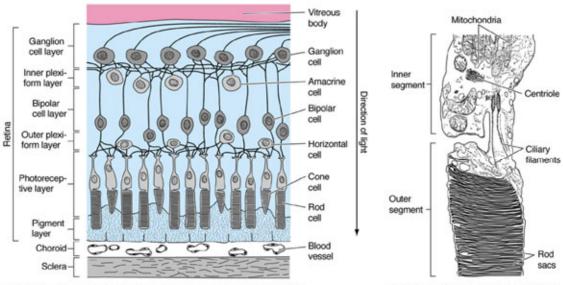
Sagittal Section of the Eye





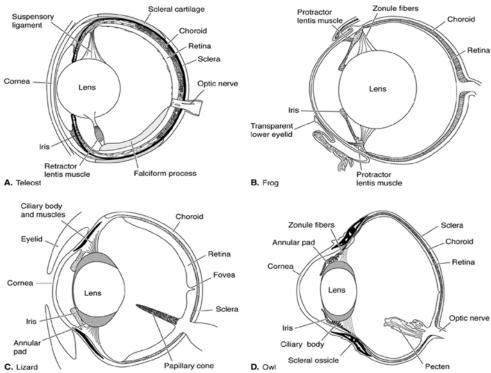


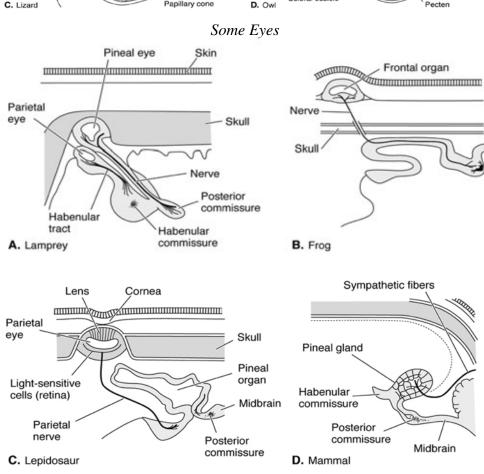
Retina



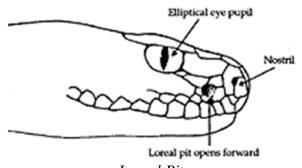
A. Layers of the retina in relation to the sclera, choroid and vitreous body

B. Ultrastructure of a portion of a rod cell



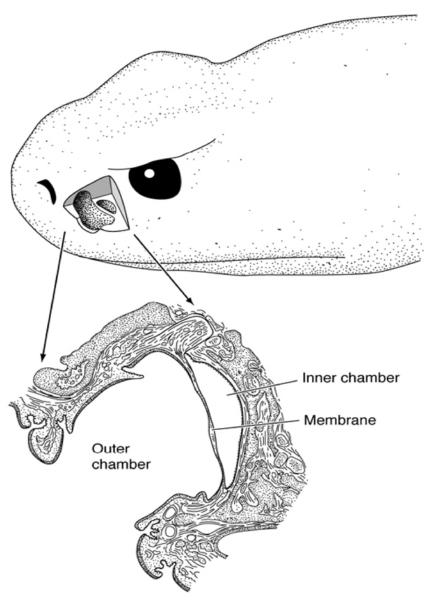


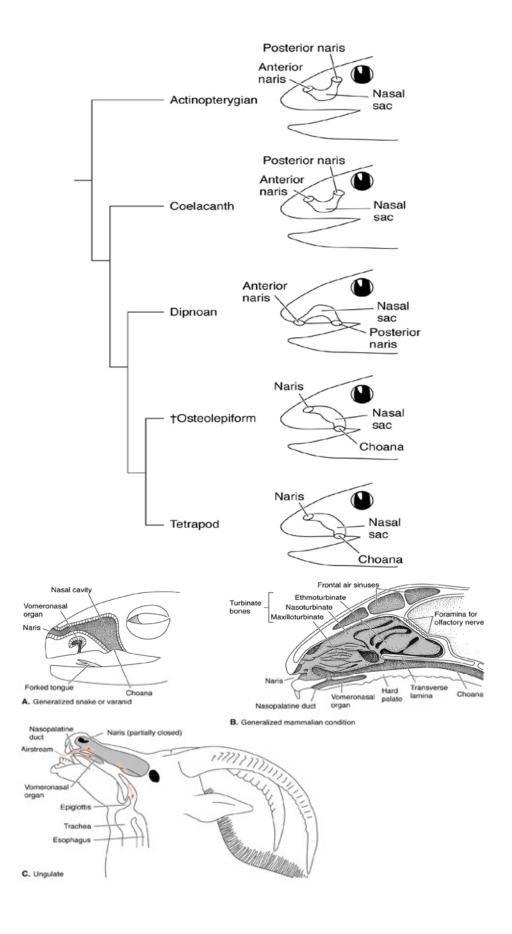
A Comparison of Pineal Glands

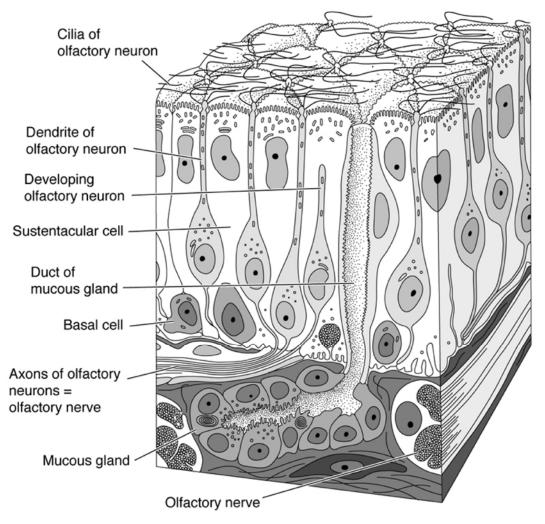


Loreal Pit

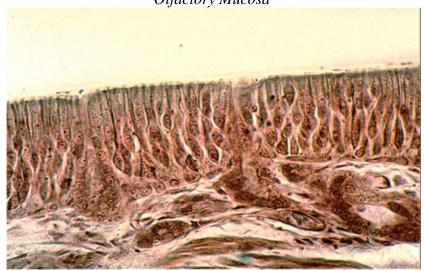






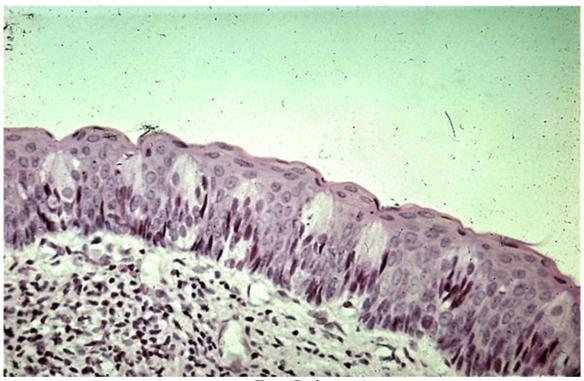


Olfactory Mucosa

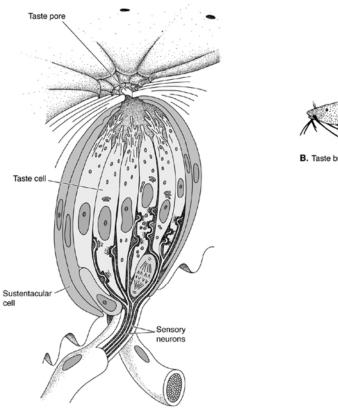


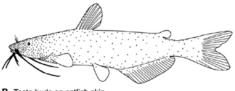


Taste Bud



Taste Buds

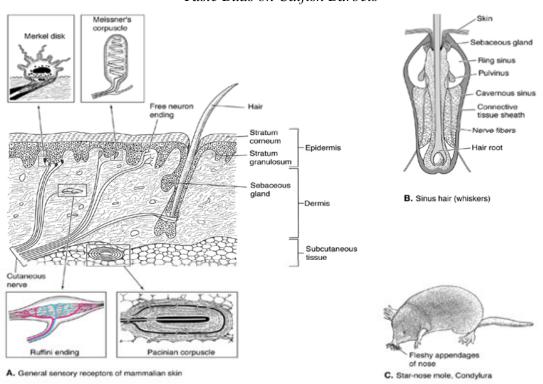




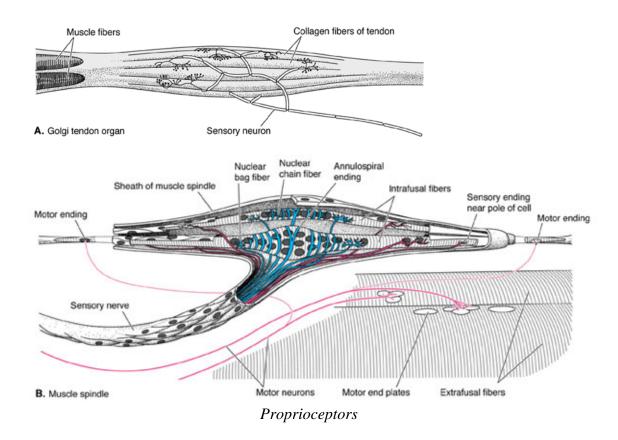
B. Taste buds on catfish skin

A. Human taste bud

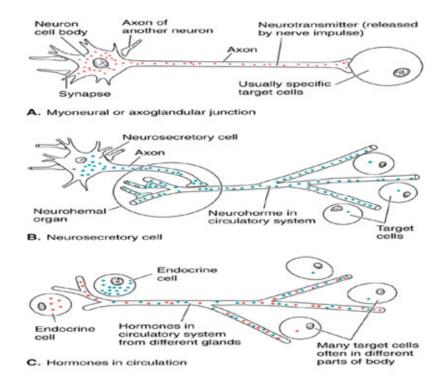
Taste Buds on Catfish Barbels



A Variety of Peripheral Sensory Receptors



Chapter 18: The Endocrine System



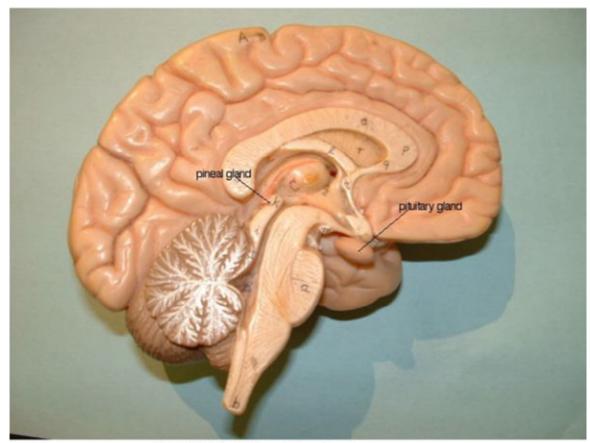
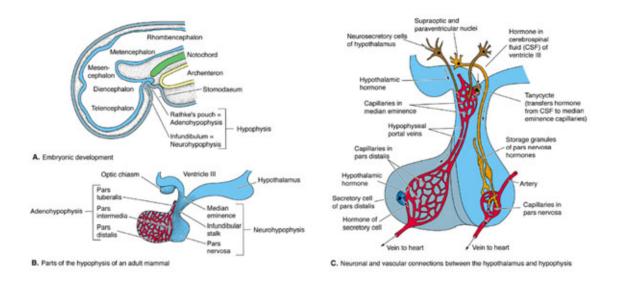
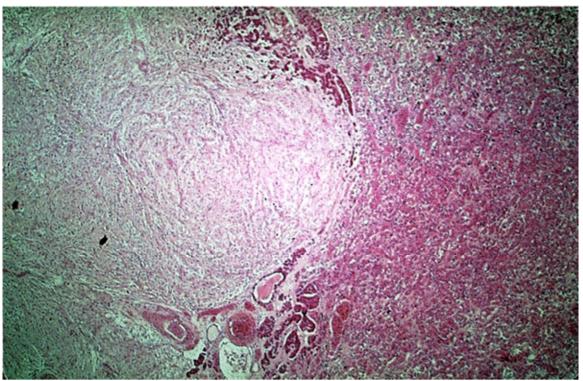


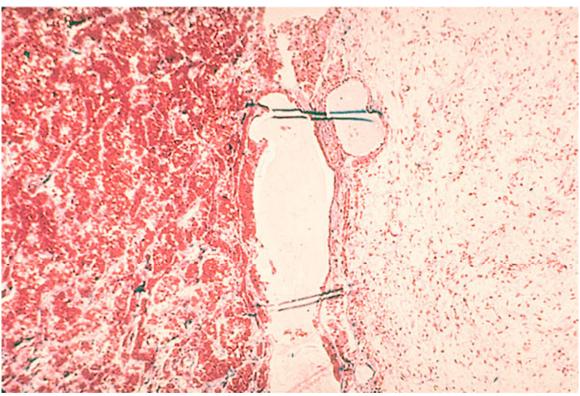
Figure 13.1: The Pituitary and Pineal Glands



Pituitary



The Pars Nervosa, Pars Intermedia, and Pars Distalis



Pars Distalis and Pars Nervosa

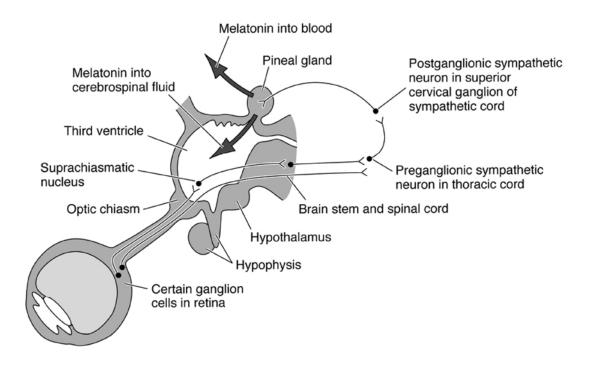


Fig. 15.6

How the Pineal Gland Receives Light In Mammals

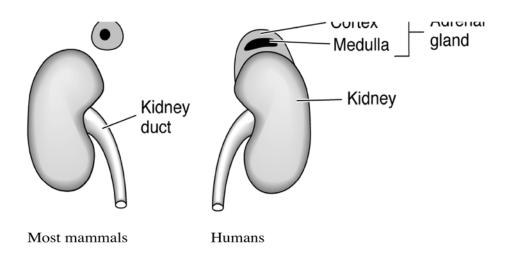
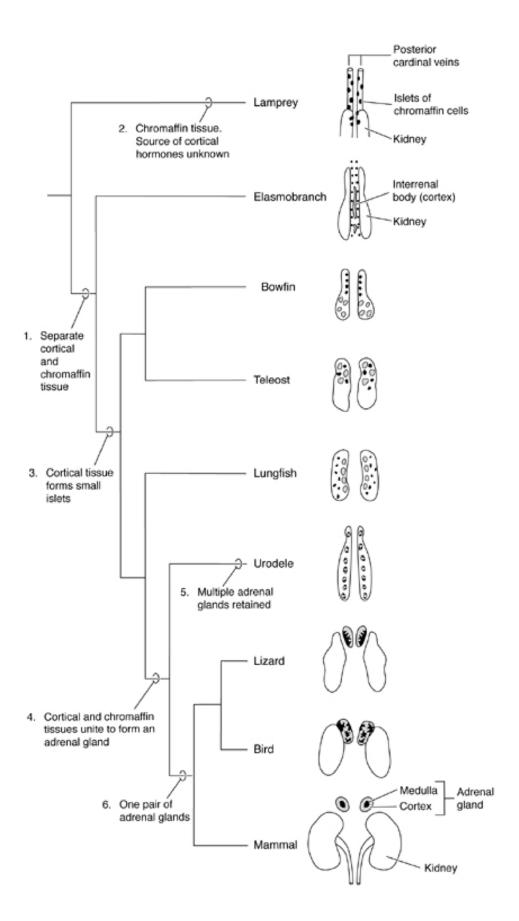


Fig. 15.7

Mammalian Adrenal Glands



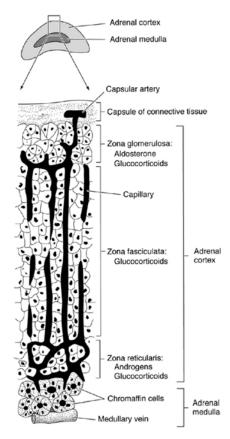
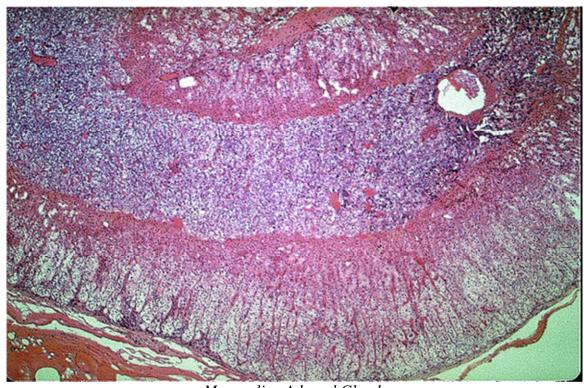


Fig. 15.8

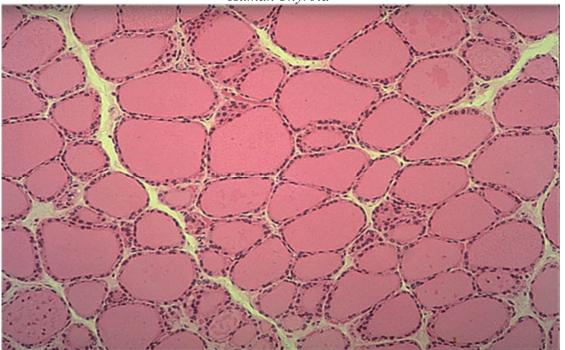
Mammalian Adrenal Gland Histological Layout



Mammalian Adrenal Gland



Human Thyroid



Thyroid Showing Follicles (with Follicular Cells) and Parafollicular Cells



Parathyroid

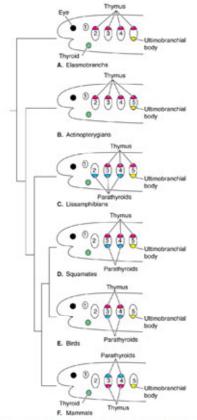
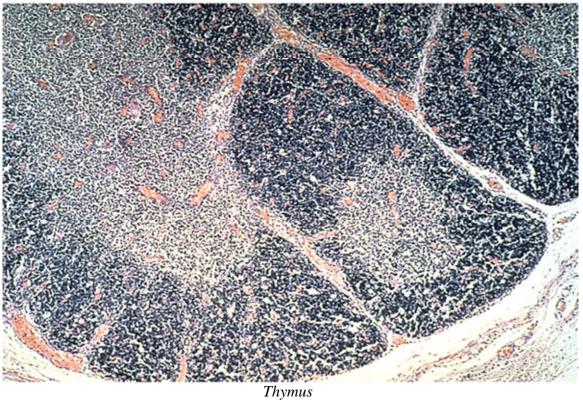
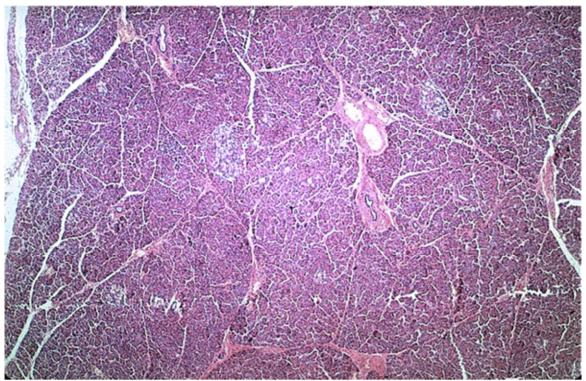


Fig. 15.12





Pancreas Showing Islets of Langerhans