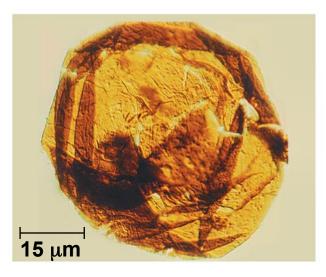




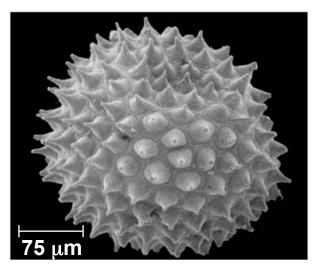
(a) Hydrozoa

(b) Scyphozoa

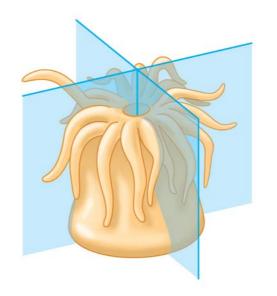
(c) Anthozoa

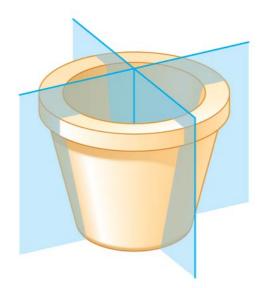


(a) Valeria (800 mya): roughly spherical, no structural defenses, soft-bodied

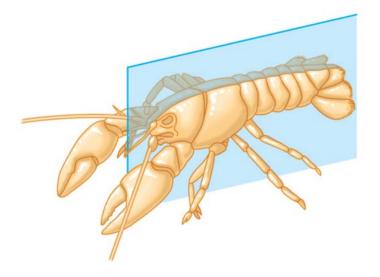


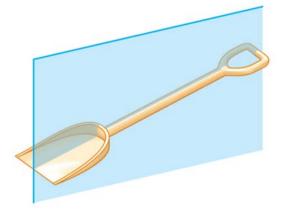
(b) Spiny acritarch (575 mya): about five times larger than *Valeria* and covered in hard spines



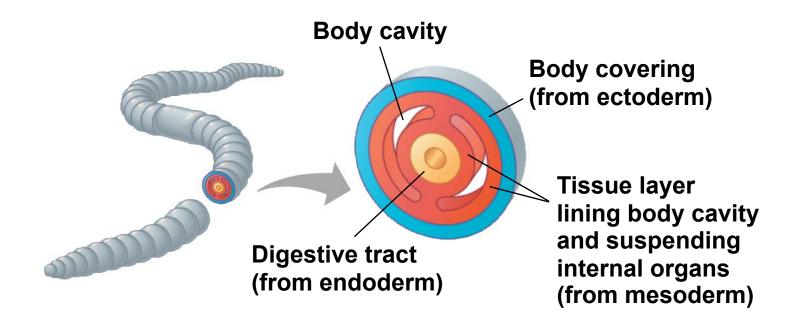


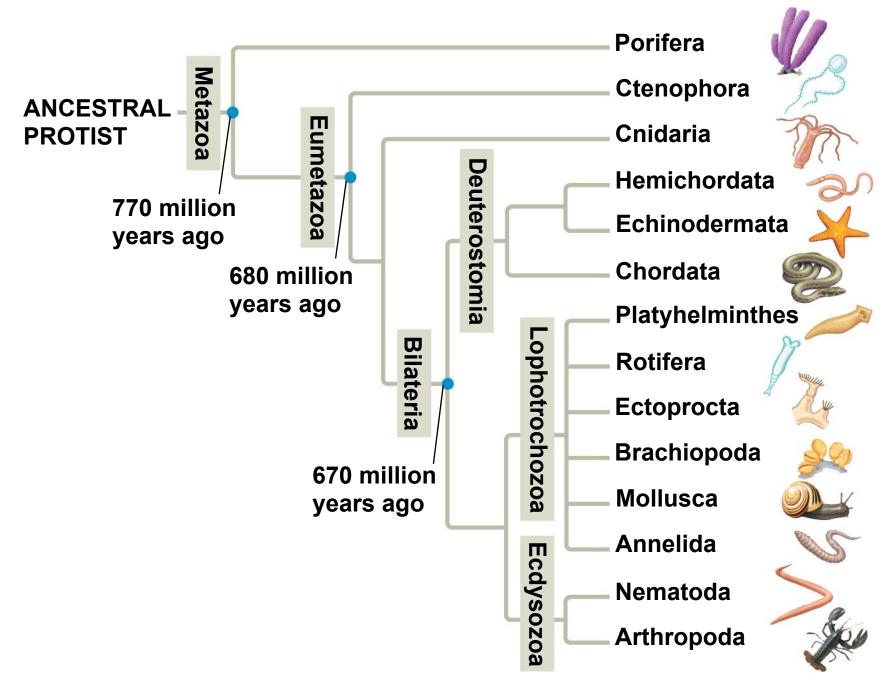
(a) Radial symmetry



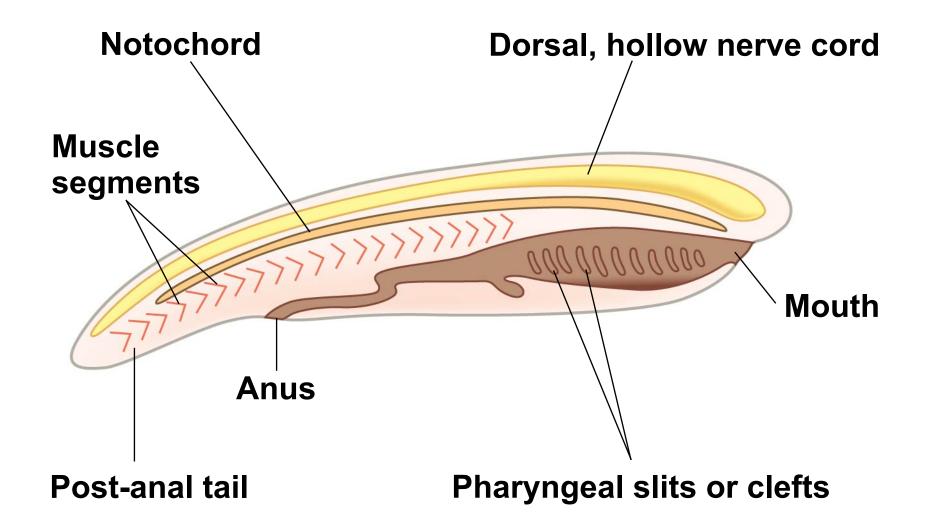


(b) Bilateral symmetry







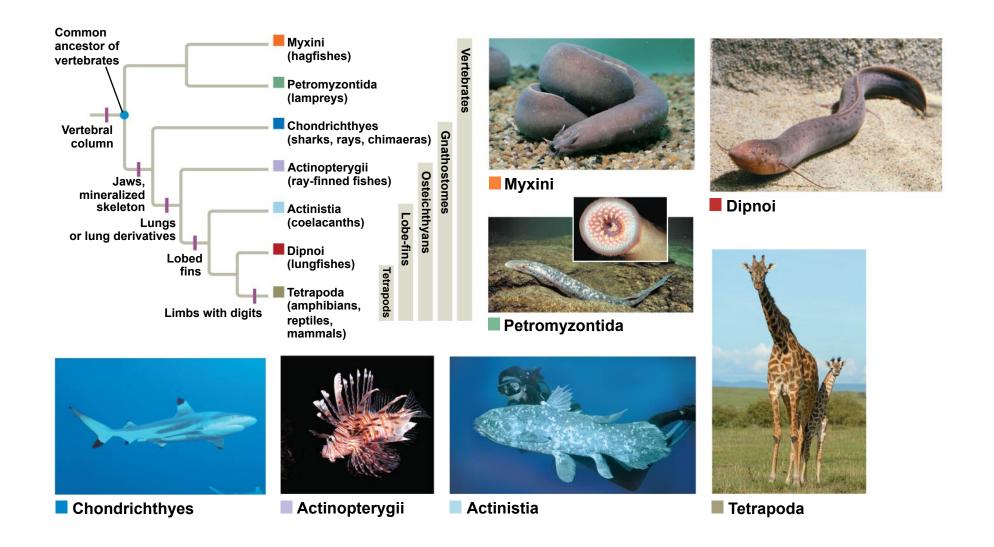


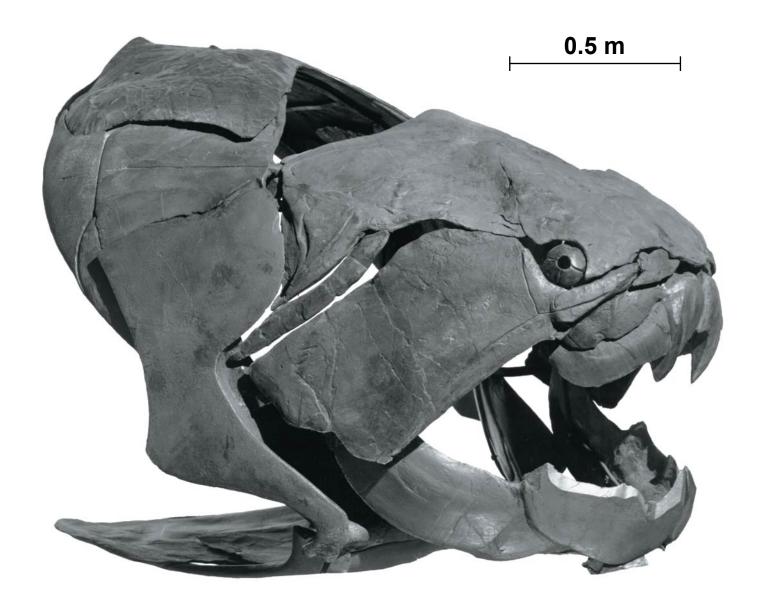




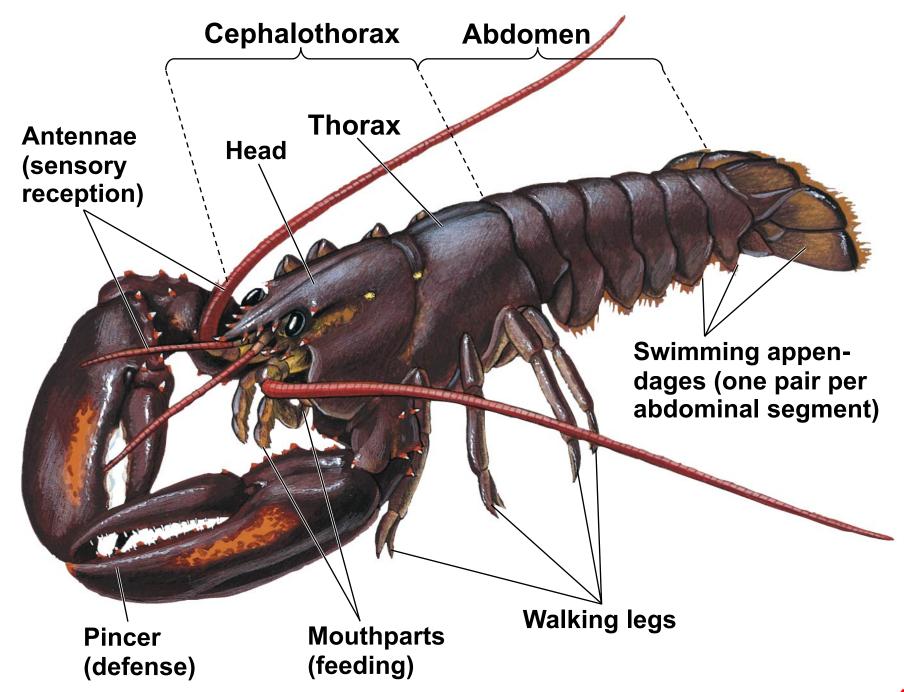


(b) Tunicate





		GREEN ALGA	MARINE CRUSTACEAN	AQUATIC LOBE-FIN
AQUATIC ANCESTOR				Sama Abad S
CHARACTER	Anchoring structure	Derived (roots)	N/A	N/A
	Support structure	Derived (lignin/stems)	Ancestral	Ancestral (skeletal system) Derived (limbs)
	Internal transport	Derived (vascular system)	Ancestral	Ancestral
	Muscle/ nerve cells	N/A	Ancestral	Ancestral
	Protection against desiccation	Derived (cuticle)	Ancestral	Derived (amniotic egg/scales)
	Gas exchange	Derived (stomata)	Derived (tracheal system)	Ancestral
TERRESTRIAL ORGANISM				
		LAND PLANTS	INSECTS	TERRESTRIAL VERTEBRATES





Lepidopterans

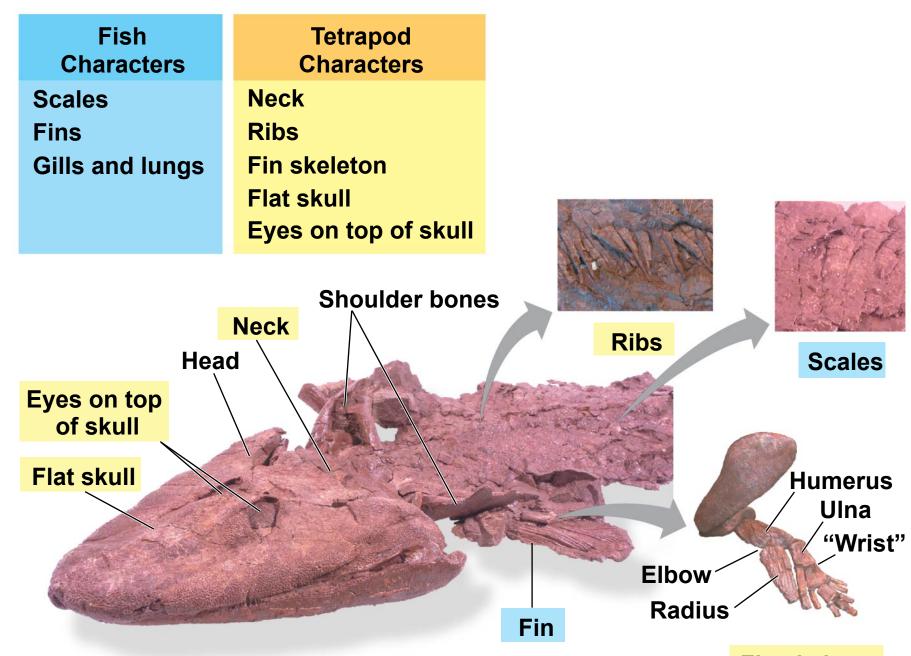


Hymenopterans

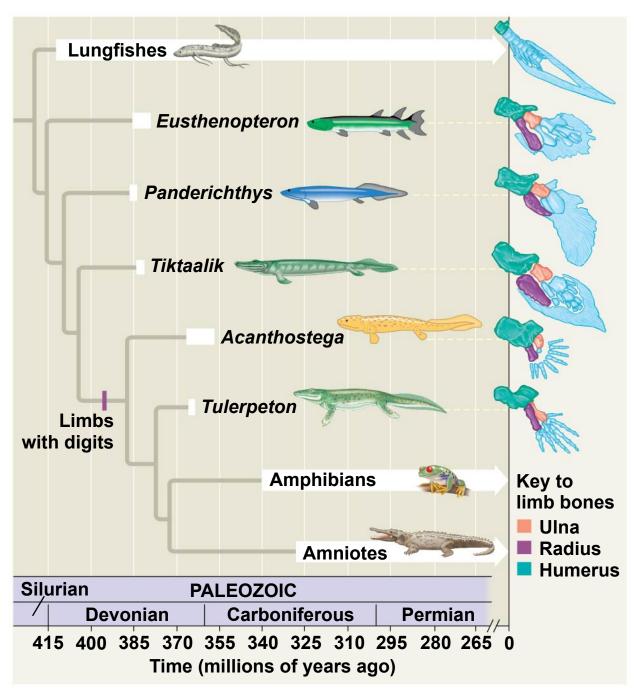


Hemipterans





Fin skeleton





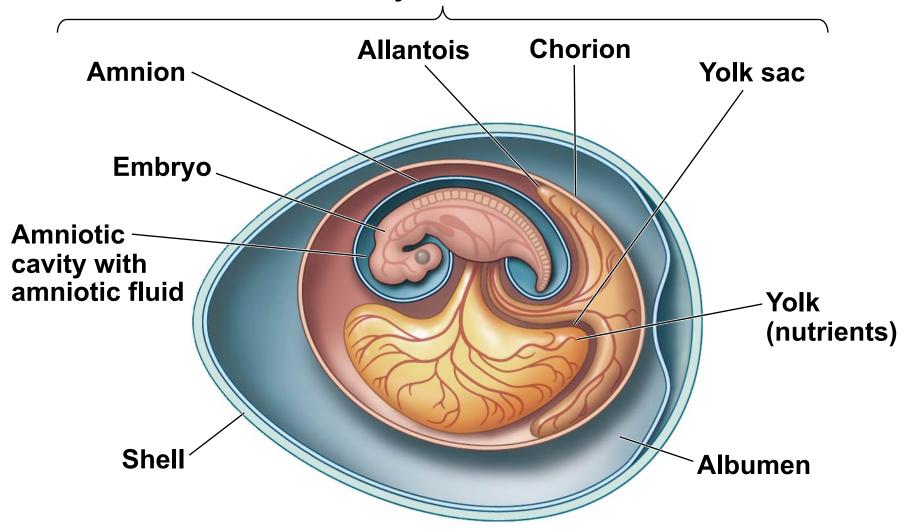
Salamanders retain their tails as adults.

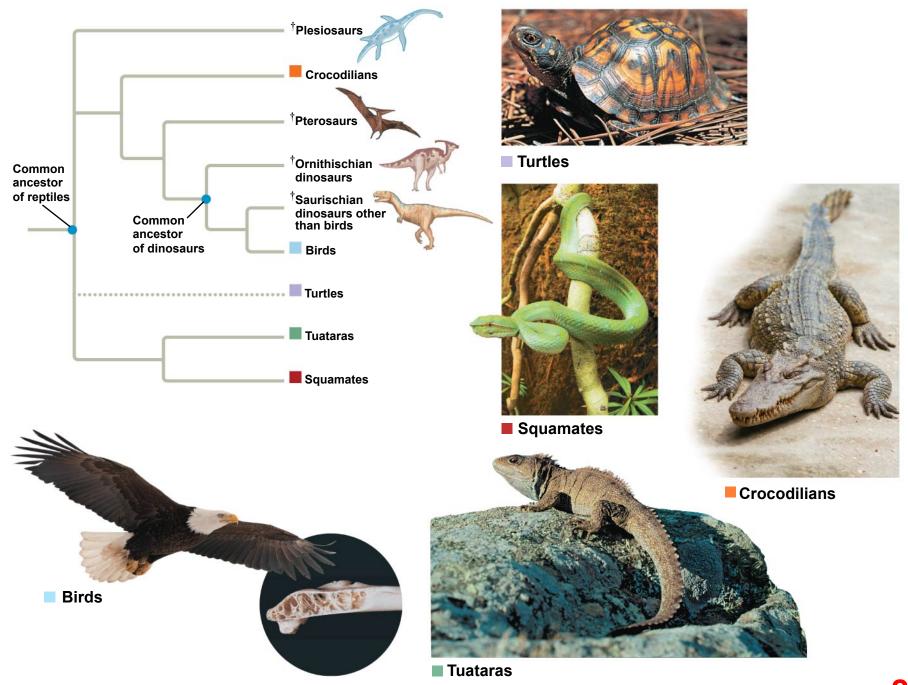


Caecilians have no legs and are mainly burrowing animals.

Frogs and toads lack tails as adults.

Extraembryonic membranes





Monotremes

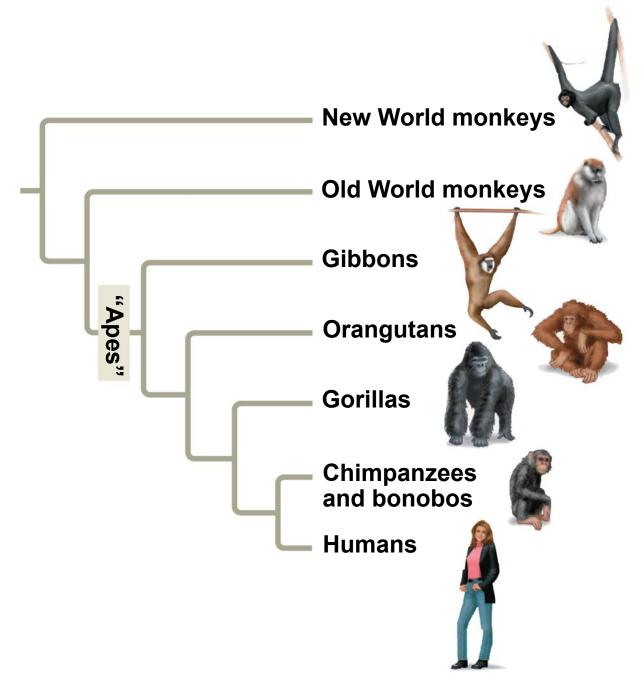


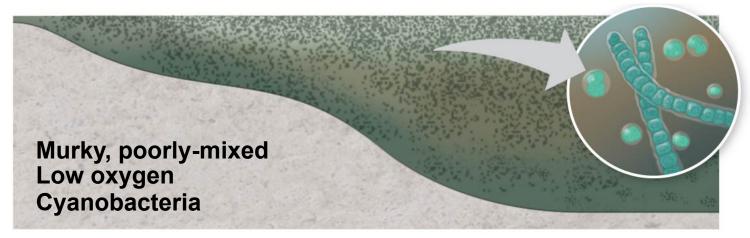
Marsupials



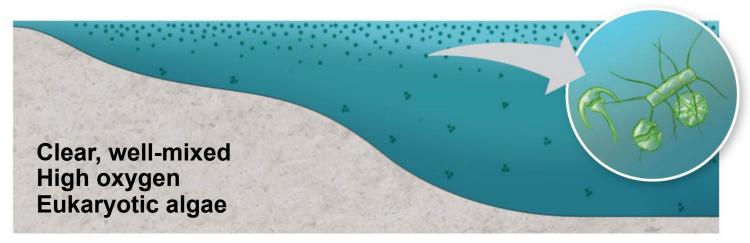
Eutherians





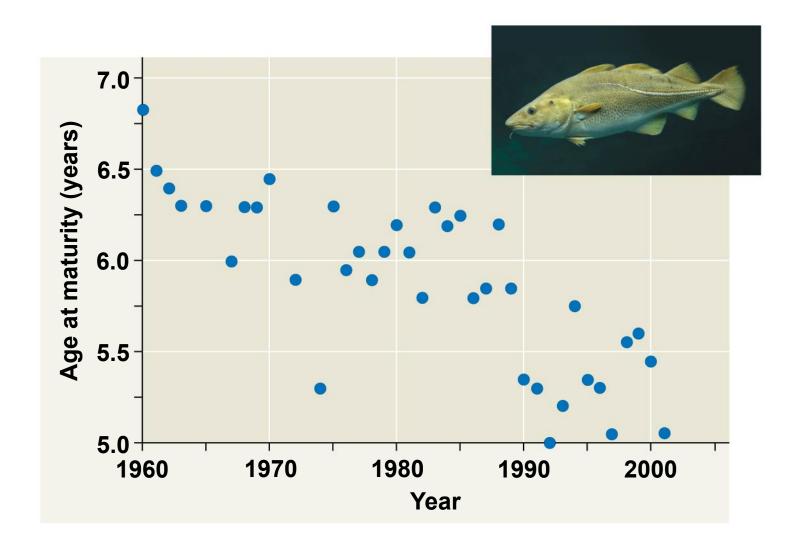


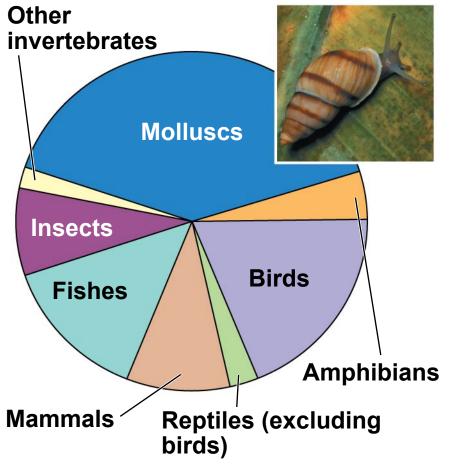
(a) Ocean conditions before 600 mya



(b) Changes to ocean conditions by 530 mya







Recorded extinctions of animal species

An endangered Pacific island land snail, Partula suturalis



Workers on a mound of pearl mussels killed to make buttons (ca. 1919)