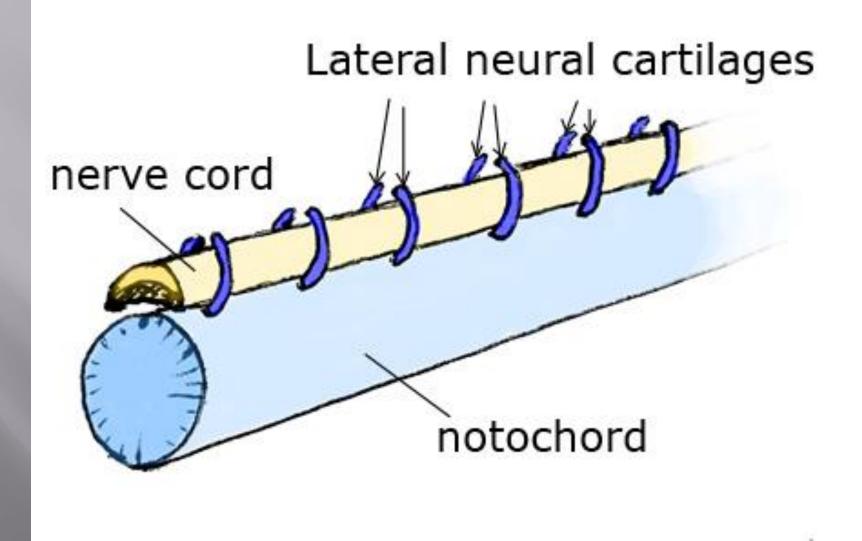
PHYLUM CHORDATA -SUBPHYLUM UROCHORDATA

Invertebrate Chordates

Phylum Chordata includes all the vertebrates and two groups of invertebrates

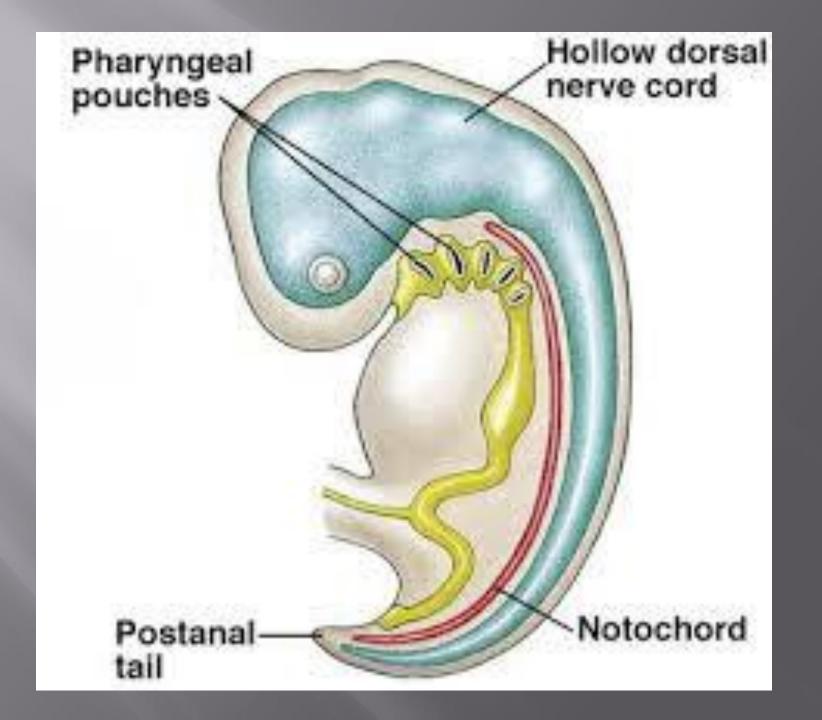
General

Characteristics Have a notochord Stiff, flexible rod located under the dorsal nerve cord



•Some chordates retain notochord throughout life

Most vertebrates have notochord present only in embryos In adult mammals, exists as small patches of tissue between bones of vertebral column





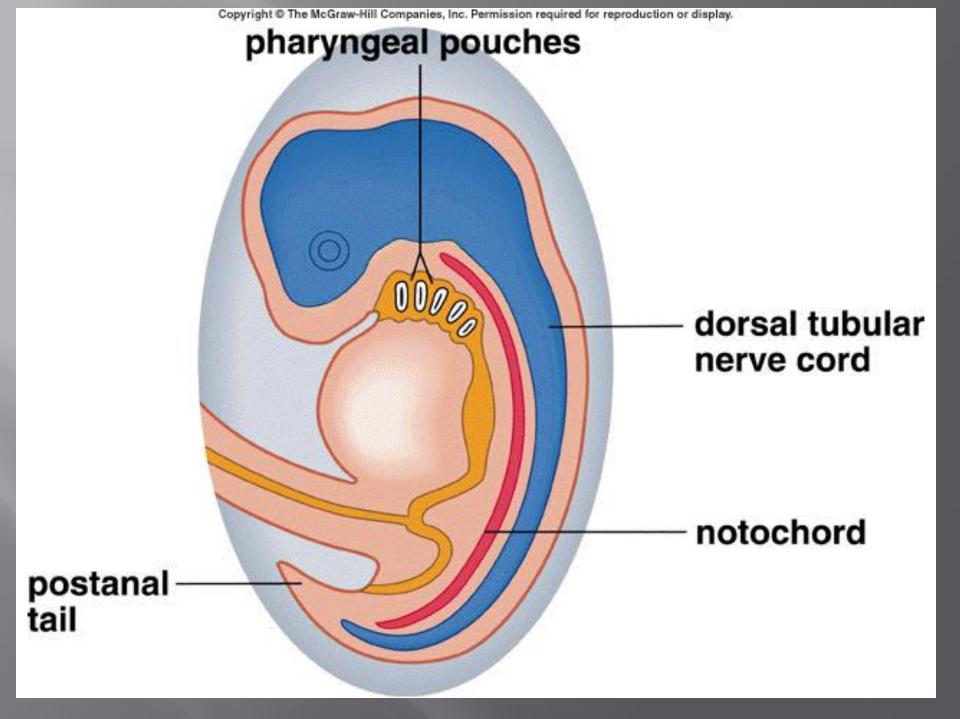
disc (notochord)

All chordates share the following characteristics during some stage of their life.

1. Notochord

2. Dorsal nerve chord

 3. Pharyngeal pouches
4. Postanal tail





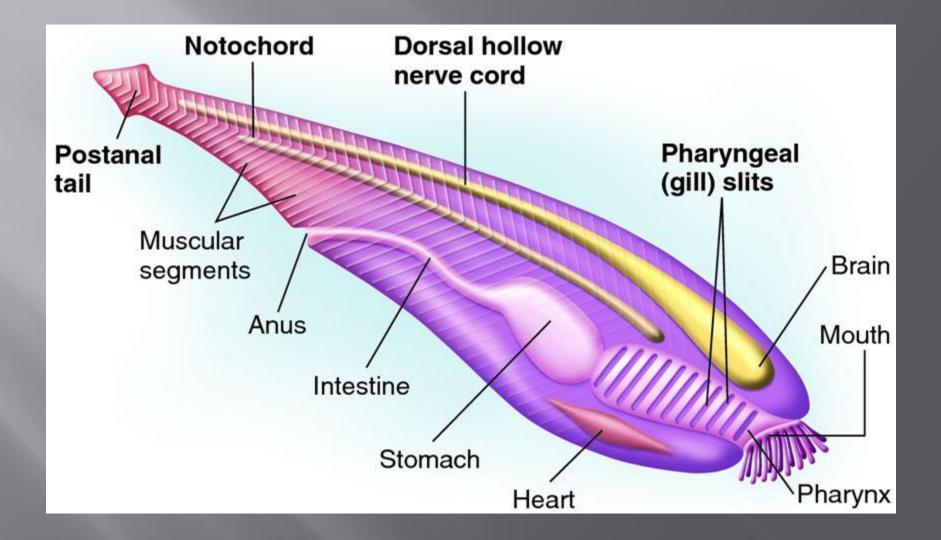
Classification

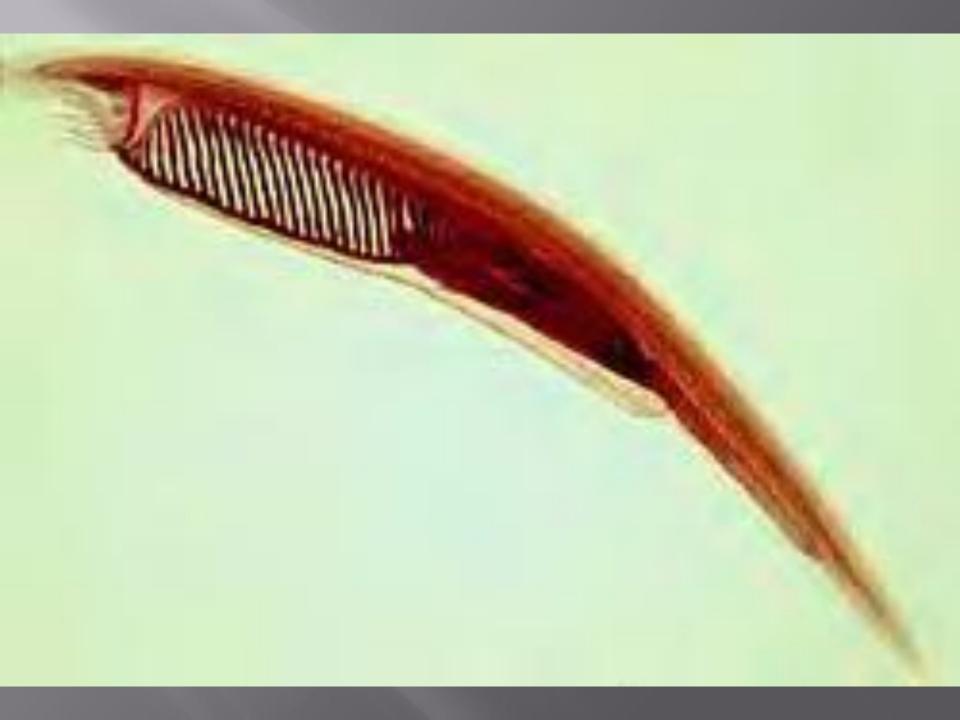
All are deuterostomes

Phylum Chordata is divided into three subphyla Cephalochordata Vertebrata Urochordata

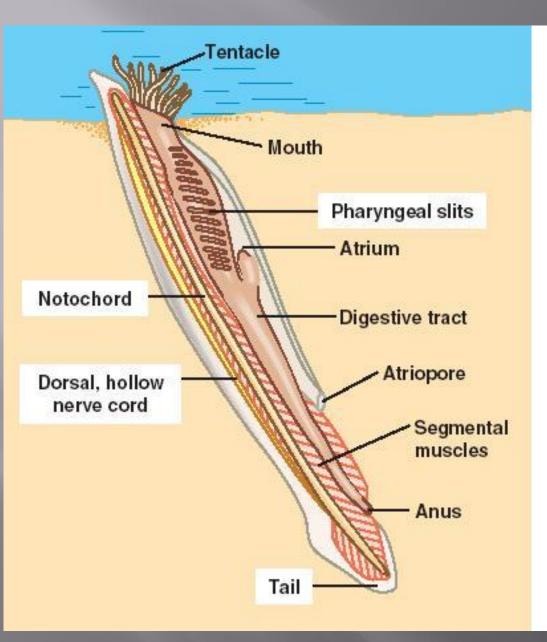
Subphylum Cephalochordata

Blade-shaped animals: lancelets





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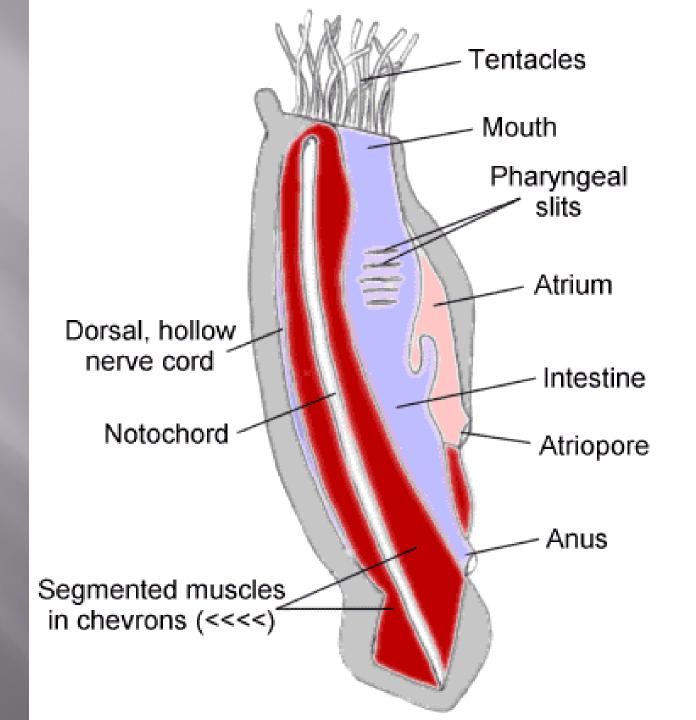
Retain notochord, dorsal nerve chord, pharyngeal pouches, and postanal tail throughout life

Live in warm, shallow waters • Muscular tail used to burrow into sand

Lancelet Feeding Cilia draws water into mouth and pharynx •Food is filtered as it passes through slits in pharynx

Water leaves through atriopore

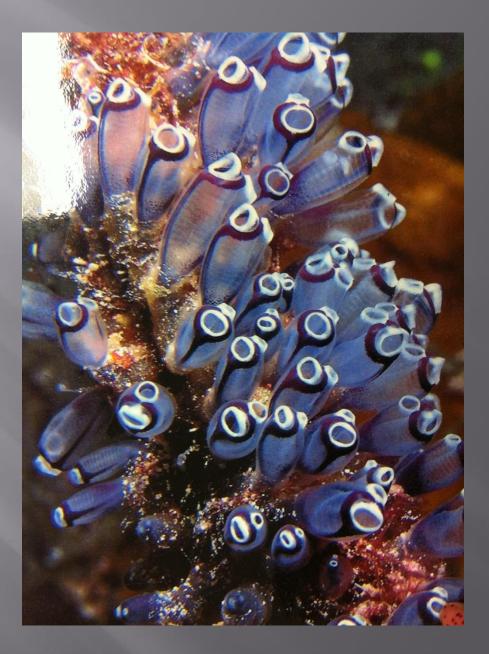
□ Lancelet also called *amphioxus*.



Subphylum Urochordata

•Tunicates

Bodies covered with tough covering, or tunic





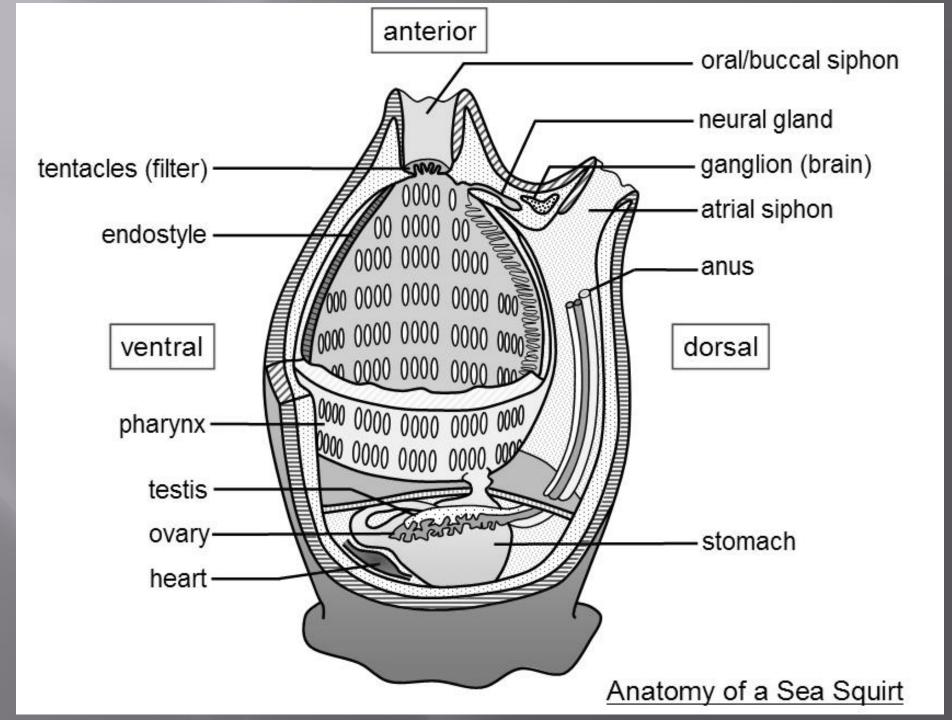
Also called sea squirts Squirt a stream of water, when touched May be solitary or colonial

•Filter feeders

Water is propelled by cilia

Enters body via incurrent siphon

Water passes through slits in pharynx Exits through excurrent siphon Food moves to stomach (waste moves to anus)



Reproduction is hermaphroditic Eggs and sperm are

released through excurrent siphon

Adults have pharynx, but lack notochord, dorsal nerve chord, or postanal tail Larvae posses all of these attributes

