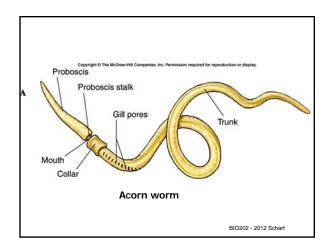
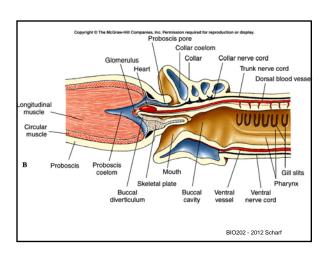
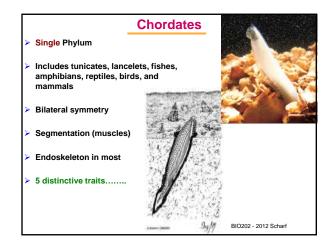
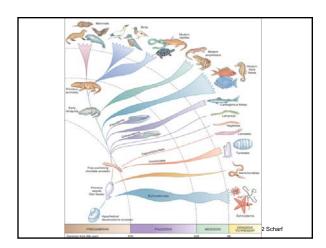
## Hemichordates Phylum Hemichordata Wormlike and stalked marine animals Body with proboscis, collar, trunk Originally thought to be Chordates based on gill slits, dorsal nerve cord, and notochord (mis-ID) Pouch of gut extending forward (buccal diverticulum) thought to be notochord Gill slits function in filter feeding Dorsal nerve cord is hollow near collar

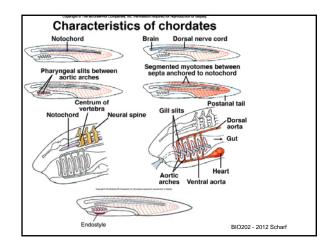


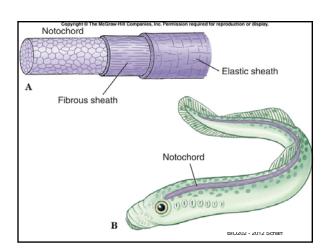






## Chordates 5 distinctive traits 1. Notochord • Flexible rod, first to appear in embryo • Replaced by vertebrae in most 2. Dorsal hollow nerve cord • Sits dorsal to alimentary canal • Anterior end enlarges to form brain 3. Pharyngeal slits • Connects pharyngeal cavity to outside • Developed for filter feeding, then gills 4. Postanal tail • Evolved for locomotion in water 5. Endostyle (thyroid gland) • Filter feeding with mucous





## Chordates Subphylum Urochordata (tunicates) Marine, solitary but can form colonies Common name from non-living tunic or test Only larvae have all 5 chordate traits Adults are pharynx dominated and filter feed using mucous Both sessile and pelagic forms

