

# Marine Invertebrates...Part 1

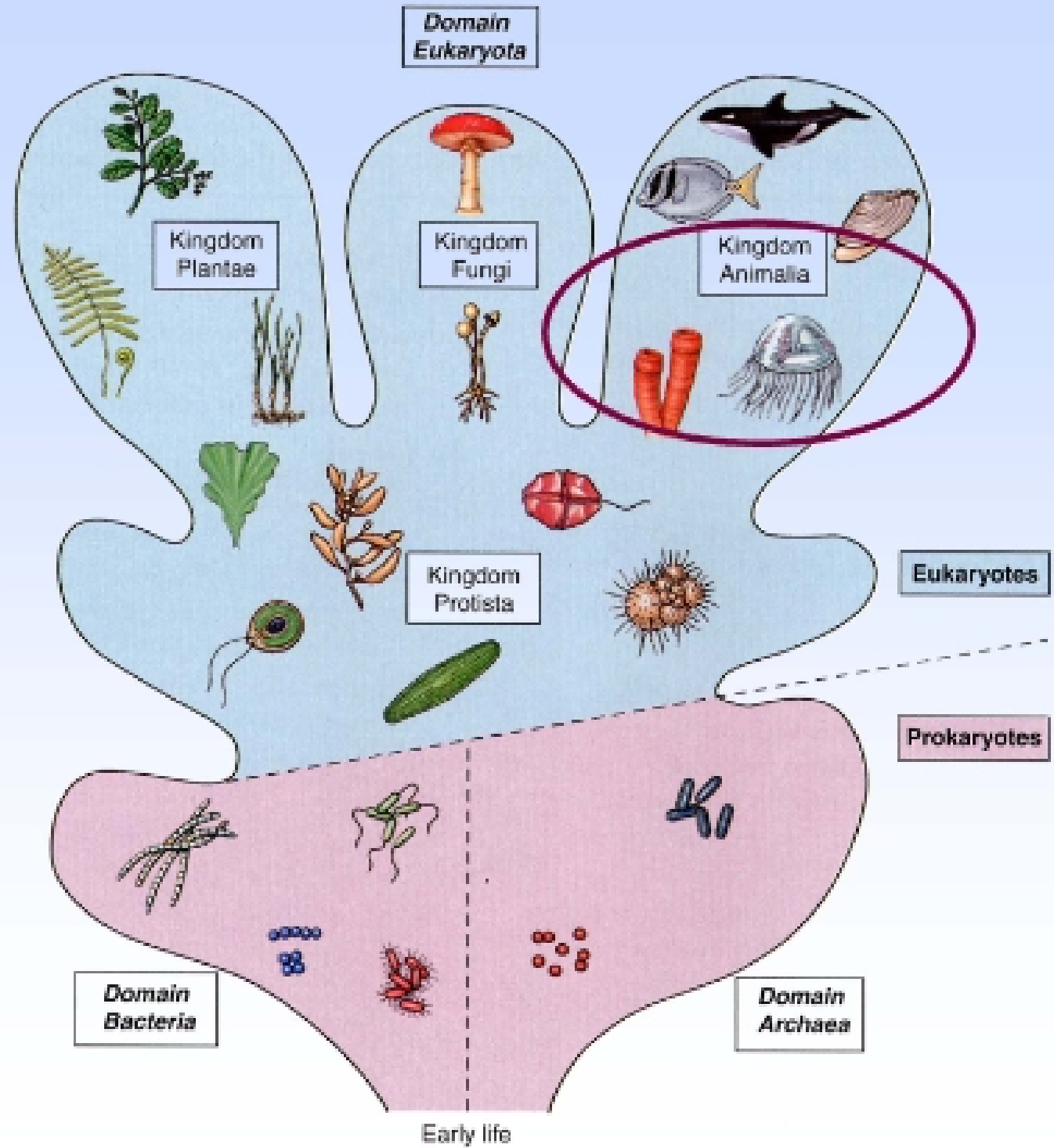
## *A few statistics...*

- ~200,000 described species of marine animals
- Many more undescribed **very small, deep sea, or cryptic**
- ~2% are open ocean species (i.e. pelagic)
- The rest are from shallow environments **intertidal, subtidal, estuaries**
- Most described marine animals are invertebrates
- Most are from two phyla: Mollusca and Arthropoda

Domain, Kingdom, Phylum, Class, Order, Family, Genus, Species

= Eukarya = Animalia

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## Kingdom: Animalia

Phylum: Porifera

Phylum: Cnidaria

Class: Hydrozoa

Class: Scyphozoa

Class: Anthozoa

Phylum: Ctenophora

Phylum: Platyhelminthes

Phylum: Spinucula

Phylum: Echiurida

Phylum: Pogonophora

Phylum: Hemichordata

Phylum: Chaetognatha

Phylum: Annelida

Phylum: Arthropoda

Body plan symmetry links evolutionary history:  
Radial vs Bilateral

Radial: Jellyfish

Bilateral: Insects

Phylum: Mollusca

Class: Aplacophora

Class: Monoplacophora

Class: Polyplacophora

Class: Gastropoda

Class: Scaphopoda

Class: Bivalvia

Class: Cephalopoda

Class: Asterozoa

Class: Ophiurozoa

Class: Echinozoa

Class: Crinozoa

Class: Holothurozoa

Phylum: Chordata

Subphylum: Urochordata

Subphylum: Cephalochordata