

- **Animalia** (kingdom)

Consume oxygen, move, reproduce sexually, grow from a blastula.
- **Porifera** (phylum)

Sponges
- **Eumetazoa** (subkingdom)

Organisms with true tissues that separate into germ layers. Unclear if even related to Porifera under the clade of Animalia
- **Ctenophora** (phylum)

Microscopic organisms in marine ecosystems with jellylike bodies who move with cilia
- **Parahoxozoa** (clade)

Proposed clade sister to Ctenophora
- **Non-Bilaterans**
 - **Cnidarians**

Jellyfish, coral, sea anemone, characterized by cnidocytes which they use to catch prey. Bodies consist of jelly called mesoglea in between two (often 1 cell thick) epithelial layers.
 - **Placozoa**

Super simple multicellular marine animal
- **Bilaterans / Triploblasts**

Triploblast - 3 germ layers: endoderm, mesoderm, ectoderm. Notably, echinoderms (sea stars) have secondary bilateral symmetry and belong in this group.

 - **Nephrozoa** (clade)
 - **Protostomia** (superphylum) \in

First opening in the blastula becomes the mouth, and blastula is cleaved spirally (with some exceptions)
 - **Deuterostomia** (superphylum) \in

First opening in the blastula becomes the anus, and blastula is cleaved radially.
 - **Proarticulata** † (phylum)
 - **Xenacoleomorpha** (phylum)
 - **Xenoturbellida**
 - **Acoleomorpha**
 - **Acolea**
 - **Nemertodermatida**