

Zoology Taxa and Concept Review

Porifera: Calcarea, Demospongea, Hexactinellida

Cnidaria: Anthozoa (*Metridium*), Cubozoa, Hydrozoa (*Hydra*, *Obelia*), Scyphozoa (*Aurelia*)

Platyhelminthes: Cestoda (*Taenia*, *Echinococcus*), Monogenea, Trematoda (*Fasciola*, *Schistosoma*), Turbellaria (*Dugesia*)

Nematoda (*Trichinella*, *Necator*, *Dracuncula*, *Enterobius*, *Ascaris*, *Loa*, *Wuchereria*)

Rotifera

- acoelomates
- alternation of generations
- ammonia/urea/uric acid
- auricle
- binary fission/ budding/ fragmentation
- choanocytes/pinacocytes/ amebocytes
- cnidae/cnidocytes/nematocysts
- collagen
- definitive/intermediate host
- elephantiasis
- endoparasitic
- eutely
- filariasis
- gastrovascular cavity
- gastrulation
- gravid/mature/immature proglottid
- hookworm/pinworm/porkworm
- leuconoid, asconoid, scyconoid
- macronuclei/micronuclei
- medusa/polyp
- mesoderm/mesoglea/mesohyl
- mictic/amictic egg

- sporocyst, redia, miracidia
- ocelli/statocysts
- operculum
- osculum/ostia
- Paramecium* conjugation
- pelagic/sessile
- polyphyletic
- pseudocoelomates
- schizogony
- scolex/scolices
- spongin
- spongocoel
- strobila
- synapomorphy
- syncytial
- trichinosis

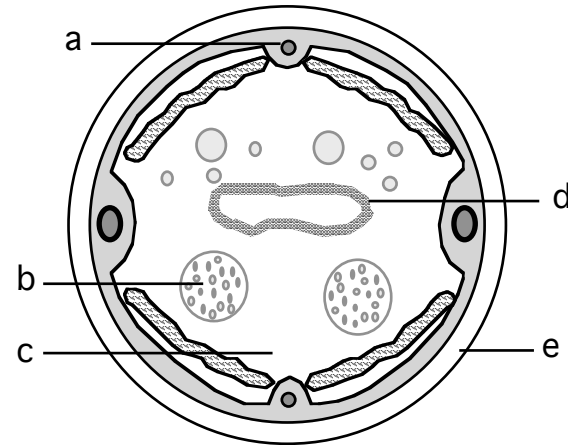
Explain the fact that the leucon body type is the most common— especially among the larger species of the phylum Porifera.

A cnidarian might be described as “an over-grown gastrula, armed and dangerous.” Explain.

Of all the animals we have studied, only a few ever weigh more than about 60 grams (a couple ounces) and most are much smaller. How do some diploblasts get to be exceptions?.

What are the benefits of alternation of cnidarian generations? Speculate on the reasons that coral have no medusa generation.

Discuss the advantages of mictic and amictic cycles of reproduction seen in Rotifers.



Describe the life cycle of a nematode parasitic on humans that **does not need** an intermediate host.

Describe the life cycle of A) a flatworm and B) a roundworm parasitic on humans that **needs** at least one intermediate host.

Outline the characteristics of a “perfect parasite.” If you were going to be a parasitic species (assuming you are not already) how would you be?

