

Invertebrate Zoology Lecture Exam One Study Guide

List of terms and topics not comprehensive

Terms (definition and Phylum):

- Alveoli – pellicle cytoskeleton part for support
- Benthic – living on the sea floor
- Blastula - spherical, hollow, one celled thick structure, found during the first stage of embryogenesis
- Choanocyte - responsible for the water currents that flow through the sponge and serve to capture particles. Cells of the choanoderm
- Extrusomes – protective organelles located below cell membrane that react to external stimuli. Trichocysts (hair) Toxicysts (poison) Mucocysts (mucous) Haptocysts (fastener)
- Gastrozooid - feeding polyp in cnidarian hydrozoas
- Mesohyl - in between inner and outer layers of porifera body structure
- Micronuclei – nucleus in daughter cell during conjugation
- Nematocyst - stinging cells in cnidaria
- Osculum -large excretory structure through which water is expelled.
- Pellicle – complex cell covering (cell membrane, cytoskeleton, Extrusomes)
- Planula - larvae produced by cnidarians
- Reynold's numbers - Unitless value that represents the ratio of inertial to viscous forces
- Spicule – structural support in sponges
- Totipotent - capable of giving rise to any cell type

Topics:

General

- Domains, kingdoms, prokaryote vs. eukaryote
- Common invertebrate habitats - marine
- Surface area to volume ratio
- Asexual vs sexual reproduction - Complex process involving the fusion of 2 cells and the exchange of genetic material, stressful situations. Binary fission - split

Protozoa

- Pellicle of protists - complex cell covering (cell membrane, cytoskeleton, Extrusomes)

-Basic protistan taxonomy/groups – Pseudopodial, ciliated, flagellated, non-locomotory

-Protozoan skeletal structures -

-Local blooms of protozoa in Chesapeake Bay - *Prorocentrum minimum* 'mahogany tide' and *Cochlodinium polykrikoides* and *Alexandrium monilatum*

-Parasitism in Protozoa – Kinetoplastida, Chagas disease, transmitted by ticks

-Modes of locomotion - Pseudopodia dominant locomotory organelle and flagella

Invertebrate Zoology Study Guide

Chao Zhang



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