

Biology of Invertebrates Study Guide: Test 1 - Final

Lecture 1: Introduction/ Ph. Porifera

Terms/concepts you should be familiar with: Archaeocyte, Apopyle, Asconoid, Atrium, Choanocyte, Choanocyte Chamber (Flagellated Chamber), Choanoderm, Choanoflagellate, Collagen, Collencyte, Collar Cell, Excurrent Canal, Eumetazoa, Fusiform Pinacocyte, Incurrent Canal, Leuconoid, Mesohyl, Monaxon Spicule, Myocyte, Osculum, Ostium (Ostia), Parazoa, Pinacocyte, Pinacoderm, Porocyte, Prosopyle, Sclerocyte, Spicule, Spongin, Spongocyte, Syconoid, Totipotent, Tetraaxon Spicule, T-pinacocyte, Triaxon Spicule

Taxonomy: See lecture 2.

- How do members of the subkingdoms Parazoa and Eumetazoa differ?
Parazoa →
 - The simplest multicellular animals
 - Cellular level of organization
 - Lack true tissues, no complex organs
Eumetazoa →
 - All other animals
 - Have true tissues organized into germ layers
 - Have neurons
 - Embryo goes through a gastrula stage
- What are the key characteristics of the Porifera? How do members of the Porifera differ from other animal phyla? How does a scientist determine what poriferan species they've found?
 - Multicellular invertebrates.
 - Cells are fairly independent and mobile.
 - Thought to be derived from flagellated ancestors.
 - Found in either marine or freshwater environments.
 - Filter feeders (a type of suspension feeder).
 - Have connective tissue skeleton.
 - Move large volumes of water through body for feeding and respiration.

pore-bearing multicellular animals. The body has no organs. They can regenerate their lost parts

- Draw a typical asconoid sponge. Be sure to include all cell layers and to label the key morphological features in this organism (including the osculum, choanocytes, mesohyl, pinacocytes, porocytes, archaeocytes, inhalant pores, and spicules). Be able to track the movement of water through this organism. Explain why water circulation is important for survival of the sponge.

Biology 33 Invertebrates Study Guide Answers

Larry G. Sellers



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