

## Chapter 33 Invertebrates Lecture Outline

### Overview: Life Without a Backbone

- Invertebrates—animals without a backbone—account for 95% of known animal species and all but one of the roughly 35 animal phyla that have been described.
  - More than a million extant species of animals are known, and at least as many more will probably be identified by future biologists.
- Invertebrates inhabit nearly all environments on Earth, from the scalding water of deep-sea hydrothermal vents to the rocky, frozen ground of Antarctica.

### Concept 33.1 Sponges are sessile and have a porous body and choanocytes

- Sponges (phylum Porifera) are so sedentary that they were mistaken for plants by the early Greeks.
- Living in freshwater and marine environments, sponges are suspension feeders.
- The body of a simple sponge resembles a sac perforated with holes.
  - Water is drawn through the pores into a central cavity, the spongocoel, and flows out through a larger opening, the osculum.
  - More complex sponges have folded body walls, and many contain branched water canals and several oscula.
- Sponges range in height from about a few mm to 2 m and most are marine.
  - About 100 species live in fresh water.
- Unlike eumetazoa, sponges lack true tissues, groups of similar cells that form a functional unit.
- The germ layers of sponges are loose federations of cells, which are not really tissues because the cells are relatively unspecialized.
  - The sponge body does contain different cell types.
- Sponges collect food particles from water passing through food-trapping equipment.
  - Flagellated choanocytes, or collar cells, lining the spongocoel (internal water chambers) create a flow of water through the sponge with their flagella and trap food with their collars.
  - Based on both molecular evidence and the morphology of their choanocytes, sponges evolved from a colonial choanoflagellate ancestor.
- The body of a sponge consists of two cell layers separated by a gelatinous region, the mesohyl.
- Wandering though the mesohyl are amoebocytes.
  - They take up food from water and from choanocytes, digest it, and carry nutrients to other cells.
  - They also secrete tough skeletal fibers within the mesohyl.
    - In some groups of sponges, these fibers are sharp spicules of calcium carbonate or silica.
    - Other sponges produce more flexible fibers from a collagen protein called spongin.
      - ? We use these pliant, honeycombed skeletons as bath sponges.
- Most sponges are sequential hermaphrodites, with each individual producing both sperm and eggs in sequence.
  - Gametes arise from choanocytes or amoebocytes.
  - The eggs are retained, but sperm are carried out the osculum by the water current.
  - Sperm are drawn into neighboring individuals and fertilize eggs in the mesohyl.
  - The zygotes develop into flagellated, swimming larvae that disperse from the parent.

# Chapter 33 Invertebrates Lecture Outline Overview Life

**BM King**



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