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 issues, 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

Chapter 33 Invertebrates Lecture Outline Overview Life

Jessica J Manson

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