

Diversity of Life Part3: Animals

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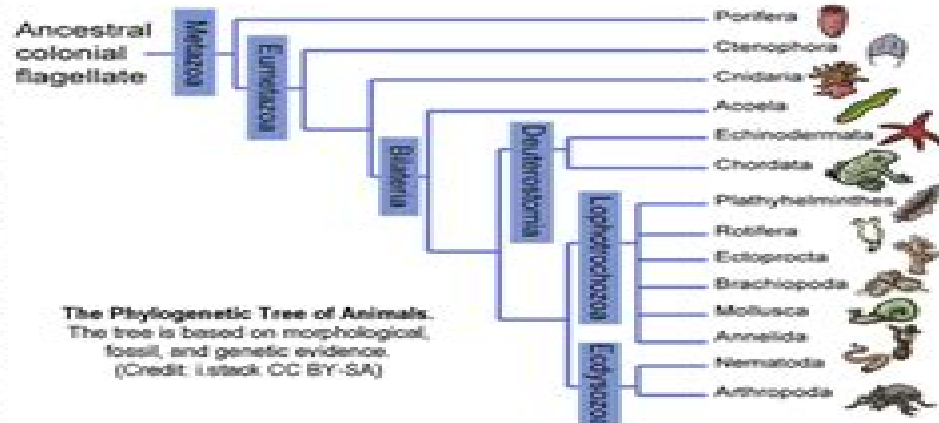


LEARNING OBJECTIVES

- Discuss the general classification of animals.
- Describe the key features and diversity of animals.
- Compare and contrast features in different animal groups highlighted.

Part1: [Introduction](#)

Animals are multicellular eukaryotic heterotrophs that **ingest** other organisms, to acquire organic molecules and energy. Most animals are **motile**, they typically reproduce sexually and their cells lack a cell wall. Unique features of this kingdom are the nervous tissue with electrical impulse conduction, muscle tissue and an advanced **body plan**. More than 90% of animals are invertebrates, i.e. they lack a backbone. Yet, when we think of animals, we have in mind a few vertebrates, like us, which represent a small portion of animals. Biologists recognize more than 35 phyla determined from major evolutionary changes in the body plan of animals. One of the first innovations is the evolution of tissues; animals with true tissues are called **eumetazoans**. Then **symmetry** separates animals with three possibilities: asymmetry, radial symmetry or bilateral symmetry. The presence of a true body cavity called the **coelom** is then used as a character to group or separate species, followed by the type of embryonic development and function of the gut. Animals will be either **protostomes** (mouth, 'stoma', forms first) or **deuterostomes** (mouth forms second and anus first). Finally, larvae characteristics, presence or absence of **segmentation** and a shedding outside (Ecdysozoa) are considered for proper classification.



The Colonial Flagellate Hypothesis

In 1841, Felix Dujardin, a French biologist interested in protozoan evolution, recorded the morphological similarities of **choanoflagellates**, colonial protists, and sponge collar cells (choanocytes) and had already proposed the possibility of a close relationship. Recent molecular tools have allowed DNA analyses supporting a relationship between these protists and animals and, genome sequencing shows that, among living organisms, the choanoflagellates are most closely related to animals. Although there are numerous variations of the hypothesis and not all scientists adhere to it, the idea currently favored by zoologists believe that, more than six hundred million years ago, a group of colonial flagellated protists evolved the capacity for complex multicellularity and eventually spawned the full diversity of modern animals.



Origins of Animals. Cells of the protist choanoflagellate resemble sponge choanocyte cells. Beating of choanocyte flagella draws water through the sponge so that nutrients can be extracted and waste removed. (Credit: CNX OpenStax [CC BY 4.0](#)).

Bio 100 Lab 11 Animal Diversity Answers

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