# **Animal Diversity**

Chapter 32 Animal Diversity and the Evolution of Body Plans

#### 32.1 Some General Features of Animals

 Identify three features that characterize all animals and three that characterize only some types of animals.

Animals are super diverse and there are few features that truly characterize all animals. Even the ones that do, there is variation within them athey're super broad.

- All antimats
  - Heterotrophy: All animals need to eat another organism to obtain energy and organic molecules. There are no autotrophic animals (protists aren't animals). Animals can either consume autotrophs (herbivores), other heterotrophs (carnivores), or both (omnivores).
  - Multicellularity: all animals are multicellular, many with complex bodies.
     Protists (unicellular eukaryotes) used to be grouped in as animals but are now within their own clades.
  - No cell walls; unlike all other multicellular organisms, animals lack cell walls. This allows for more flexibility and ultimately movement.
- Some animals
  - Active movement: most animals have the ability to move rapidly and in complex ways (a trait unique to animals). However, many cannot move (sessile), so this trait only characterizes some animals. Additionally, the ways in which animals are able to move can also vary. Those that do move can do so slowly (sedentary) or at the rate we perceive as normal. Also, flying to get around is unique to animals. Motility is a result of lacking a cell wall.
  - Diversity of forms animals come in all shapes and sizes. They range from very small to very large and can either have or lack a backbone (vertebrates and invertebrates).
  - Diversity of habitat: many animal phyla live exclusively in marine environments. Of those, few dominate freshwater environments and of those, even fewer dominate terrestrial environments. The majority of phyla on land also have successful sister species in marine environments.
     Point is, though, different animals thrive in vastly different environments.

#### 32.2 Evolution of the Animal Body Plan

Animal evolution has taken place over millions of years. Throughout this evolution, we have seen five key innovations:

Symmetry: With the lack of sponges, all animals have evolved to have some sort
of symmetry. Radial symmetry came first. Basically, these animals, known as
cnidarians, are symmetrical along a center point (like a pie). Think of jellyfish.
From cnidarians evolved animals with bilateral symmetry (clade bilateria) where
two halves mirror each other. Being bilateral allows animals to move forward in

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**M Carnoy** 

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