

LAB 21: Evolution and Classification

Introduction:

This lab is an adapted version of one created by Robert P. Gendron of Indiana University of Pennsylvania.

Humans classify almost everything, including each other. This habit can be quite useful. For example, when talking about a car someone might describe it as a 4-door sedan with a fuel injected V-8 engine. A knowledgeable listener who has not seen the car will still have a good idea of what it is like because of certain characteristics it shares with other familiar cars. Humans have been classifying plants and animals for a lot longer than they have been classifying cars, but the principle is much the same. In fact, one of the central problems in biology is the classification of organisms on the basis of shared characteristics. As an example, biologists classify all organisms with a backbone as "vertebrates." In this case the backbone is a characteristic that defines the group. If, in addition to a backbone, an organism has gills and fins it is a fish, a subcategory of the vertebrates. This fish can be further assigned to smaller and smaller categories down to the level of the species. The classification of organisms in this way aids the biologist by bringing order to what would otherwise be a bewildering diversity of species. (There are probably several million species - of which about one million have been named and classified.) The field devoted to the classification of organisms is called **taxonomy** [Gk. *taxis*, arrange, put in order + *nomos*, law].

The modern taxonomic system was devised by **Carolus Linnaeus** (1707-1778). It is a **hierarchical** system since organisms are grouped into ever more inclusive categories from species up to kingdom. **Figure 1** illustrates how four species are classified using this taxonomic system. (Note that it is standard practice to underline or *italicize* the genus and species names.)

KINGDOM	Animalia		Plantae
PHYLUM	Chordata	Arthropoda	Angiospermophyta
CLASS	Mammalia	Insecta	Monocotyledoneae
ORDER	Primate	Carnivora	Liliales
FAMILY	Hominidae	Canidae	Liliaceae
GENUS	<i>Homo</i>	<i>Canis</i>	<i>Allium</i>
SPECIES	<i>sapiens</i> (human)	<i>Lupus</i> (wolf)	<i>sativum</i> (garlic)

Figure 1

In the 18th century most scientists believed that the Earth and all the organisms on it had been created suddenly in their present form as recently as 4004 BC. According to this view, Linnaeus' system of classification was simply a useful means of cataloging the diversity of life. Some scientists went further, suggesting that taxonomy provided insight into the Creator's mind ("Natural Theology").

This view of taxonomy changed dramatically when **Charles Darwin** published *On The Origin of Species* in 1859. In his book Darwin presented convincing evidence that life had evolved through the process of **natural selection**. The evidence gathered by Darwin, and thousands

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$\text{Ca}^{2+} \text{ aq} + \text{CO}_3^{2-} \text{ aq} + \text{H}^+ \text{ aq} + \text{HCO}_3^- \text{ aq} \rightarrow \text{Ca}^{2+} \text{ aq} + \text{CO}_3^{2-} \text{ aq} + \text{H}_2\text{O} \text{ l}$

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