

## BIO 100 STUDY GUIDE FINAL EXAM

Taxonomy - the science of classification

Aristotle - first taxonomic system

Plants: trees, shrubs, and herbs

Animals: air-dwellers, water-dwellers, land-dwellers

\* System flawed because scientifically valid characteristics (by modern standards) were often not used in determining the categories.

Carolus Linnaeus - father of modern taxonomy

- \* Eliminated use of common names
- \* Used Latin as a basis for nomenclature
- \* Created "binomial nomenclature" identifying each organism by their Genus and species. ex. Homo sapiens in which Homo is the genus and sapiens is the species.
- \* Created other taxa for classification purposes: kingdom, phylum, class, order, family, genus, species
- \* Used morphological characteristics as a basis for classification
- \* The Linnaean system of classification is still in use today.
- \* Linnaeus was devoutly religious, but his taxonomic system was later to be used to demonstrate the phylogenetic (evolutionary) relationships among living organisms.
- \* Linnaeus Latinized his own name from Carl Line
- \* Five major kingdoms of life are currently recognized

### Five Kingdoms of Life

1. Cell type:

- A. Prokaryotic (P) - primitive, lack membrane-bound internal organelles
- B. Eukaryotic (E) - true nucleus, membrane-bound organelles

2. # Cells: Unicellular (U), Colonial (C), Multicellular (M)

3. Nutrition:

- A. Autotrophic (A) - Source of carbon is simple, such as carbon dioxide (CO<sub>2</sub>)
- B. Heterotrophic (H) - Source of carbon is complex, such as carbohydrates, proteins, lipids, or nucleic acids

Kingdom	Organisms	Cell Type	# Cells	Nutrition
(1) Monera	Bacteria	P	U	H
	Blue-green bacteria		U, C	A

# Biology 100 Study Guide

**Sylvia S. Mader**



## **Biology 100 Study Guide:**

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