

**I. Primer on Classification**

- A. Definition
- B. Primary Operations
- C. Artificial vs. Natural Systems

**II. The Early Days**

- A. Theophrastus (ca. 371-287 BC). *De Historia Plantarum*, and *De Causis Plantarum*
- B. Herbalists
  - 1. Herbals
  - 2. Dioscorides (40-90 AD). *De Materia Medica*.
  - 3. Others (15<sup>th</sup>-17<sup>th</sup> C. AD).
  - 4. De la Cruz (?-1552-?). *The Badianus Manuscript*.

**III. Pre-Linnaean Taxonomists.**

- A. Caesalpino (1519-1603). *De Plantis Libri*.
- B. Ray (1628-1705). *Synopsis Methodica Stirpium Britannicarum & Historia Plantarum*.
- C. Bauhin (1560-1624) & Tournefort (1656-1708). *Pinax Theatri Botanici & Institutiones Rei Herbariae*.

**IV. Linnaeus.**

- A. Carl von Linné (a.k.a. Carolus Linnaeus; 1707-1778). *Species Plantarum* (1753).

**V. The French and their 'natural' systems.**

- A. Adanson (1727-1806). *Familles des Plantes*.
- B. Jussieu (1748-1836). *Genera Plantarum*.
- C. Lamarck (1744-1829). *Flora Francoise*.
- D. de Candolle (1778-1841). *Prodromus Systematis*.

**VI. Evolutionary taxonomy.**

- A. Darwin (1809-1882). *On the Origin of Species by Means of Natural Selection* (1859).
- B. Engler (1844-1930) and Prantl (1849-1893). *Die Natürlichen Pflanzenfamilien*.
- C. Bessey (1845-1915). Bessey's Dicta. *The Phylogenetic Taxonomy of Flowering Plants*.
- D. Cronquist (1919-1991). *An integrated system of classification of flowering plants*.

**VII. Phenetics.**

- A. Michel Adanson (1750s).
- B. Sneath & Sokal (1950s-1970s).  
Sneath & Sokal. 1973. *Numerical Taxonomy: The Principles and Practice of Numerical Classification*.
- C. Phenetics Methods.
- D. Pros & Cons.

**VIII. Cladistics.**

- A. Willi Hennig (1913-1976)  
*Grundzüge einer Theorie der Phylogenetischen Systematik* (Hennig, 1950).  
*Phylogenetic Systematics* (Hennig, 1966).
- B. Hennigian Principles.

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Readings for this topic:

*Artificial and Phenetic Systems of Classification*. Pp. 461-467,  
*Traditional Phylogenetic Classification*. Pp. 469-485, and  
*Cladistic classification systems*. Pp. 489-503,

all in Vascular Plant Taxonomy, 4<sup>th</sup> ed. Walters, DR, and Keil, DJ. Kendall/Hunt Publishing Co., Dubuque, Iowa.