

Timeline for Core Biology: Environmental Discoveries†

1800A.D. to Present

- **1920 - Nikolay Vavilov establishes the Earth's biomes**
- **1928 - Frederic Clements proposes the theory of plant succession.**
- **1949 – Aldo Leopold's book *A Sand County Almanac* becomes the inspiration for the environmental movement**
- **1953 - Eugene P. Odum publishes the first textbook in the field: *Fundamentals of Ecology* and puts environmental studies on a scientific basis.**
- **1957 – Ecology's concept of niche is defined by G.E. Hutchinson.**
- 1967 American biologist Lynn Margulis describes the symbiotic cell and how cooperation is one of the bases for all life on the planet.
- **1969 - American ecologist Robert Whittaker proposes five kingdoms of life.**
- **1979 – James Lovelock proposes Gaia hypothesis.**
- **1986 – E.O. Wilson coins the term biodiversity.**

† Bold indicates segments in Program Core Biology: Environmental Sciences