

- I. Origin of Species
 - a. Chapter 1: Variation under domestication
 - i. Domestic varieties arise from a common wild ancestor, NOT an equal number of wild ancestors
 - b. Chapter 2: Variation under nature
 - i. There are many heritable variations in nature and variation is continuous through species and varieties
 - c. Chapter 3: Struggle for existence
 - i. Convince readers that the world is harsh, there are limited resources, and there is something like "survival of the fittest"
 - d. Chapter 4: Natural Selection
 - i. Brings it all together and completes the theory. Gives the overall mechanism of change
 - ii. **Phylogenetic tree**: a visual representation of the relationship between species, taxa, individuals, etc. (TREE)
 - e. Chapter 5: Laws of variation
 - i. Discuss the causes of variation, which was not solved until modern synthesis (the mixture of genetics and evolution)
 - f. Other Chapters
 - i. Chapter 6: Difficulties with the theory
 - ii. Chapter 7: Instinct
 - iii. Chapter 8: Hybridism
 - iv. Chapter 9: On the imperfection of the geological record
 - g. Uniformitarianism vs. catastrophism
 - i. Uniformitarianism was a huge influence on Darwin, as it is the theory that the earth and its geographic features arose through slow gradual change
 - h. Spontaneous generation: in contrast to evolution. The idea that complex life-forms arise repeatedly without external stimuli from nonliving matter, and the idea that parents of one species can have offspring of an entirely different species
- II. Comparative morphology
 - a. Analogous structures: structures with a similar function but a different evolutionary origin
 - b. Homologous structures: underlying anatomical commonalities demonstrating descent from a common ancestor
 - c. Vestigial structures: a structure in an organism that has lost all or most of its original function but remains of it are still present in the organism
- III. Before Darwin
 - a. Transformational process: scientists saw change as this, where the properties of an ensemble change because every member of the ensemble itself changes
 - i. Lamarck's theory was this
 - b. Variational process: the properties of an ensemble changes, but not because the individuals change
 - i. Darwin's theory of natural selection was this
- IV. Natural Selection

Evolution Exam Study Guide

Chao Zhang



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