

Virology

Tuesday, January 17, 2017

9:17 AM

- Classification and evolution
 - SEQ natural selection
 - INTERPRET phylogeny
- Virology
 - SEQ viral replication cycle
 - CC types of replication cycles
 - CC viral origin hypotheses

1. Classification and Evolution

a. Classification and systematics

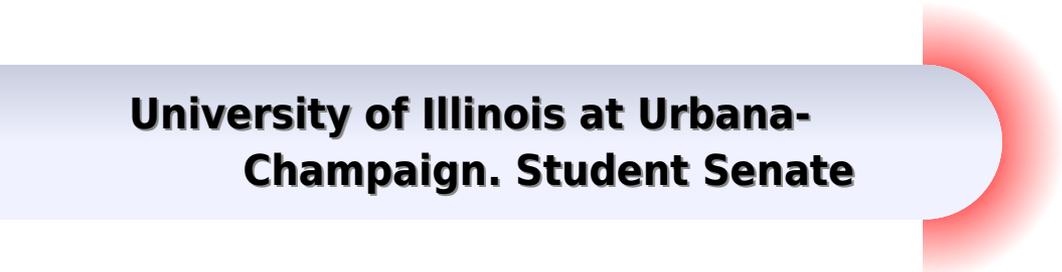
- i. Study of diversity or organisms and evolutionary relationships
- ii. Two parts
 - 1) **Taxonomy**-naming, describing, classifying
 - 2) **Phylogeny**-evolutionary history of species or group
- iii. **Taxonomy**
 - 1) Binomial nomenclature-genus + specific epithet
 - a) Homo sapiens
 - i) Homo-genus
 - ii) Sapiens-species
- iv. Linnaean classification
 - 1) Hierarchical-each level more inclusive than one below
 - 2) All species at a level share characteristics of that group
 - 3) **Taxon**-grouping at any level

b. Evolution

- i. Accumulation of genetic changes within populations over time
- ii. Changes in allele frequency from generation to generation
- iii. Not changes in an individual during their lifetime
- iv. **Natural selection**
 - 1) A mechanism of evolution-beneficial traits increase in frequency
 - 2) Acts on variation
- v. Biological diversity

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