

# 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

# General Virology Lecture Notes

**ML Yell**



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*Current Catalog* National Library of Medicine (U.S.),1979 First multi year cumulation covers six years 1965 70

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**The Antiseptic** ,1981 **University of Arkansas Catalog** University of Arkansas, Fayetteville. College of Arts and Sciences,1975 **Medical Journal of Australia** ,1914 *The Advisor, Teacher-course Evaluation, 1970-71* University of Illinois at Urbana-Champaign. Student Senate,1970 *General Virology* Salvador Edward Luria,James E. Darnell,1967

*National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1991 *Science on the Web* Edward Renehan,Edward J. Jr. Renehan,1996 With *Science on the Web* Edward J Renehan has compiled a fun and informative guide to what s available what s interesting and what s new in the World Wide Web s science facilities *The Advisor, Teacher-course Evaluation* University of Illinois at Urbana-Champaign. Student Senate,1970 **Antibodies to Human Herpes Virus-6 (HHV-6) in Pregnant Women in Michigan** Mohammed-Saleh Ali Islaih,1993 **Publications** ,1968

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