

# 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

**Wolfgang Guggemos**



## **General Virology Lecture Notes:**

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 *General Virology* Salvador Edward Luria,James E. Darnell,1967 *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

**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 *British Books in Print*

,1985 *The British National Bibliography* Arthur James Wells,1968 **Report** Scottish Horticultural Research Institute,1974 The Standard Periodical Directory ,1977 This directory may be used to identify specialized trade journals as possible sources of business information or advertising **Desk Encyclopedia of General Virology** Marc H.V. van Regenmortel,Brian W.J. Mahy,2010-05-21 This volume derived from Encyclopedia of Virology provides an overview of the development of virology during the last ten years Entries detail the nature origin phylogeny and evolution of viruses It then moves into a summary of our understanding of the structure and assembly of virus particles and describes how this knowledge was obtained Genetic material of viruses and the different mechanisms used by viruses to infect and replicate in their host cells are highlighted The volume is rounded out with an overview of some major groups of viruses with particular attention being given to our current knowledge of their molecular biology The most comprehensive single volume source providing an overview of virology to non specialists Bridges the gap between basic undergraduate texts and specialized reviews Concise and general overviews of important topics within the field will help when preparing for lectures writing reports or drafting grant applications **Scientific Activities** Mekhon Vaitzman le-mada',1988 *The Cumulative Book Index* ,1962 A world list of books in the English language **Whitaker's Books in Print** ,1990

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