

BIOL 2420

Medical Microbiology

September 23, 2014 -- **Assignment DUE: 11/20/14 by class time**

Each student will choose a different virus from the list, below.

Write a paper consisting of approximately five to seven pages with double line spacing.

Include a final page with cited references in APA format (not included in the seven pages).

Submit via D2L by the 11.20.14 due date. (Papers will be scanned for plagiarism.)

Each student MUST visit The Write Place at least once (see below).

Your paper MUST include:

General description of viruses.

Description of the subject virus:

Discuss the family to which the individual virus belongs.

Discuss the type of genetic material of the virus.

Discuss the architecture of the virus (include size).

Discuss some similarities/differences to/from other viruses.

Does this virus “bud” from the cell?

Does this virus lyse the cell?

Can this virus remain latent?

Discuss the host/tissue/cell infected by the virus.

How does this virus infect the host organism?

How does this virus infect the cell? (Receptor?)

Discuss disease(s) causes by the virus.

Discuss any additional interesting facts about the virus (*i.e.*, historical significance, dependence upon environmental factors for spread, dependence or interaction with other microbes, etc.)

Discuss the ways currently used by “medicine” to treat viral infection.

LIST:

Chicken pox/Shingles (VZV)

Herpes Simplex I/II (HSV I and HSV II)

Human Papillomavirus (HPV)

Hepatitis A, B, and C Viruses (HBV)

Cytomegalovirus (CMV)

Epstein-Barr virus (EBV)

Hantavirus

West Nile virus

Rabies virus

Ebola virus

Dengue virus or Lassa virus (choose one)

Human Immunodeficiency Virus (HIV)

Polio virus

Adenovirus

Rotovirus

Small pox (Vaccinia)

Rhinovirus

Respiratory Syncytial Virus (RSV)

Norovirus (Norwalk) (and similar viruses)

Coxsackie virus (hand, foot and mouth disease)

Influenza virus (flu)

Measles (rubeola) virus

Mumps or Rubella virus

Aphthae epizooticae (Hoof-and-Mouth Disease)

Tobacco Mosaic Virus

Virus Assignment –The Write Place Checklist

The Write Place visit must occur between **09.30.14 - 10.20.14 (by appointment only)**

MANDATORY material to take to The Write Place:

1. Paper Outline
2. Rough draft of paper based upon descriptors listed above
3. Works cited page (references in APA format)
4. Reference materials (printed, electronic)

Information to be completed by The Write Place:

Date of visit: _____

Initials of The Write Place mentor:

_____ Paper Outline reviewed (and edited, if necessary)

_____ Rough draft of paper reviewed and edited

_____ Introductory paragraph provides general information regarding viruses

_____ Paragraph(s) describing the general information regarding the specific virus chosen (historical significance, if applicable)

_____ Classification of specific virus chosen (genetic material)

_____ Mode of host cell infection (i.e., specific cellular receptor)

_____ Diseases caused by the virus

_____ Vaccines or Treatments

_____ Review of references (scholarly academic/peer-reviewed material preferred)

Additions, subtractions, edits (or any other additional notes/suggestions):