Assignment for Saturday Jan 28, 2012

* DIRECT LINK: <http://www.hhmi.org/biointeractive/disease/lectures.html#epidemics>

OR

* Google “*HHMI Biointeractive*”
* Choose link to the Biointeractive - Lectures –
* Scroll down to “2000 and beyond: confronting the microbe world” about 2/3 way down page
* Watch lecture #3 given by Dr. Brett Finlay: *Outwitting Bacteria’s Wily Ways*

You should watch from 7:30 minutes up to 46:00 minutes.

Your written assignment follows:

1. What is meant by ‘Multiplicity of Infection?’
2. Define “Virulence Factors” and give some examples of things virulence factors do.
3. How can understanding the roles of virulence factors in causing disease help lead to new therapies?

* Describe one example from the video
* Explain the advantage of using virulence factors as targets to block their effectiveness, but, unlike antibiotics, **don’t** kill the bacteria.

1. What is the danger of eating ground beef (hamburger) as opposed to steak?
2. Look up (Google or CDC.gov) ***recent*** cases of outbreaks of *Listeria, E.coli* **and** *Salmonella* outbreaks in the US.
   1. When and where did these occur?
   2. What food(s) were involved?
   3. What precautions would have prevented these outbreaks?
3. Take the Mysterious bacteria quiz

<http://health.howstuffworks.com/diseases-conditions/infectious/mysterious-bacteria-quiz.htm>

= Your score??? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Have a great weekend!