Acellular Biological Entities

Viruses, Viroids, & Prions (PowerPoint and Chapter 19)
- What are the biological and structural differences between a virus, viroid, and prion? Review the diseases caused by each.
- What determines the shape of a virus and the host cell specificity?
- What is the difference between phage, naked virus and enveloped virus?
- Define the terms: virion, capsid, nucleocapsid, envelope, spike; viroid & prions. What biomolecule(s) is each made of?
- Review the steps of the life cycle of a virus and the modes of entry of naked and enveloped viruses into their animal host cells.
- Review the structure of the Ebola virus, the steps for its completion of its life cycle and its role in disrupting the immune response by infecting different cells of the immune system.
- Review the structure of the retrovirus HIV and the importance of reverse transcriptase and integrase for the success of its life cycle.