20.1 Viruses

- Daily Objectives: Viruses (virology)
 - Bacteria (bacteriology)
 - Parasites (parasitology)
- **Essential Question:**
- Are viruses alive?
- What is a Virus?
- A virus is a non-living particle made up of genetic and nucleic acids (sometimes a lipid.
 - envelope) and is covered with a coating known as the protein coat.
 - Viruses can reproduce only by infecting living cells.
- Too small to see under a microscope!
- Only discovered in 1897!

How does a virus work? - Most viruses have proteins on their surface or lipids that bind to the host cells



receptor proteins

- Some also have a membrane around the capsid.
- Complex viruses may have hundreds of genes.
- The proteins "trick" the cell to put its genetic material into the host cell.
- Once inside, the viral genes are expressed and can destroy the cell.
- Must bind to the proteins on the host cells.
- Most viruses infect only a very specific cell.
 - Plant viruses infect plant cells
 - Most animal viruses infect only infect those certain species.
 - Viruses that infect bacteria are called bacteriophages and only infect certain types of bacteria.



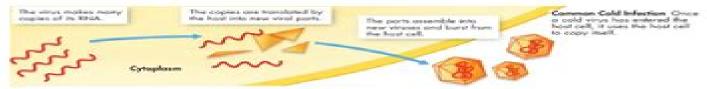
Structure and

Composition

- Once inside the cell, the virus uses the host cell's genetic information to copy itself.
 - In a lytic infection, a virus infects and kills other host cells.
 - In a lysogenic infection, a virus is integrated into the host cells chromosome.
- About 70 % of viruses contain RNA rather than DNA.
- In humans, RNA viruses cause a wide range of infections, from relatively simple colds to severe cases of HIV.



20.1 Virus Cont.



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