

TYPES OF VIRUSES

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- Viruses are very diverse.
- They come in different shape and structures, have different kinds of genomes , and infect different hosts.
- Therefore viruses may be of following type.
 - (a) Types of virus on the basis of Host Range
 - (b) Types of viruses on the basis of genetic material of virus
 - (c) Types of viruses on the basis of structural symmetry of virus

TYPES OF VIRUS ON THE BASIS OF HOST RANGE

1. Plant virus:- those virus that infects plants.
example- Tobacco mosaic virus.
2. Animal virus:- those virus that infects animals.
Example- Polio virus, Retro virus, Herpes virus.
3. Bacteriophage:- those virus that infects bacteria. Example- phage T2, T4.
4. Insect virus:-those virus that infects. Example- Baculovirus, sacbrood virus.
5. Cyanophage:-Those virus that infects Cyanobacteria
6. mycophage:-Those virus that infects Mycoplasma

TYPES OF VIRUSES ON THE BASIS OF GENETIC MATERIAL OF VIRUS

1. DNA virus:-The genome of these viruses are DNA.
 - a) DNA stranded DNA virus:- eg-herpes virus, pox virus
 - b) Single stranded DNA virus:-
2. RNA virus:-
 - a) Double stranded RNA virus:- eg- Reo virus
 - b) Single stranded RNA virus
3. DNA-RNA virus:- eg- Leuko virus, Rous's virus

TYPES OF VIRUSES ON THE BASIS OF STRUCTURAL SYMMETRY OF VIRUS

1. Helical (spiral) symmetry:- eg- TMV
2. Icosahedral (cubical) symmetry:- eg- Adenovirus, herpes virus
3. Complex symmetry:-Pox virus, bacteriophage
4. Binal symmetry:-T-phage