

General characteristics of Virus

- Smallest infectious agent - Measures 20-300nm in diameter
- HAPLOID except: Retrovirus
- Either DNA or RNA in nature
- Resistant to antibiotics
- Obligate intracellular organisms
- If virus is envelope, it is either sensitive while naked is either resistant

Naked Virus: Picornavirus, Reovirus, Calicivirus, Papovavirus, Parvovirus and Adenovirus (PRCPPA)

Parts of a virion

1. Capsid

Protein shell or coat that encloses the nucleic acid

2. Nucleic Acid

DNA (deoxyribonucleic acid) or RNA (ribonucleic acid)

3. Nucleocapsid

Nucleic acid + Capsid (Enclosed)

4. Capsomeres

Morphological units seen on the surface of particles

5. Envelope

A lipid containing membrane that surrounds some viral particles

6. Structural Units

Protomers are the smallest functional unit equivalent to building units of the capsid.



Infectious Cycle:

1. Attachment/Adhesion – finding of suitable host cell to invade –viral tropism
2. Penetration – engulfment of virus through endocytosis; direct fusion
3. Uncoating – release of viral content
4. Biosynthesis – replication & translation occurs
5. Assembly/maturation
6. Release – to the extracellular fluid and repeat the cycle



Cell Cultures

- most widely used for virus isolation (shell vial).

Types of cell cultures:

A. Primary cell culture - derived from animal tissues

- example: Monkey Kidney – excellent for Myxovirus

B. Semi-continuous cell culture – derived from embryonic tissues

- e.g., Human embryonic kidney and skin fibroblasts

C. Continuous cell culture - derived from tumor cells/malignant tissues

- e.g., HeLa, Vero, Hep2, LLC-MK2, MDCK

DNA VIRUS

GENERAL RULE

All are ds-DNA Except: Parvovirus

All are icosahedral Except: Poxvirus(Complex)

All are enveloped Except: Papovavirus, Adenovirus, Parvovirus

All multiply in nucleus Except: Poxvirus (cytoplasm)

Largest is Poxvirus while smallest is Parvovirus

1. Adenovirus

Mastadenovirus

- Grapelike cluster cytopathic effect

- Pathogenic to human (w/ 52 serotypes)

- Respiratory and Gastrointestinal are common clinical manifestation

o Acquired through contaminated respiratory droplets, stool and fomite

Serotypes 40 and 41	Gastroenteritis in children
8	Conjunctivitis
3 and 7	Pharyngitis
4 and 7	Respiratory

Disease Epidemic in Military

2. Hepadnavirus

- Dane particle or Australian antigen – infectious unit
- Associated with acute hepatitis but may lead to Cirrhosis and Liver carcinoma
- Humans are the only source of the virus

Ephti Medical Virology Lecture Notes

Asim Dasgupta



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Lecture Notes on Medical Virology D. J. Jeffries, 1987-01 MIMG 102, Introductory Virology Lawrence T. Feldman, 2008 **Notes on Medical Virology** Morag Crichton Timbury, 1994 Aimed at medical undergraduates this overview of virology is presented in note form This edition has been updated providing major additions to the sections on anti viral agents diagnostic kits and HIV AIDS Emphasis is on clinical relevance and on the essential details

Microbiology, Immunology and Molecular Genetics 102 Asim Dasgupta, 2012 Principles of Molecular Virology Alan Cann, 2001 CD ROM contains Virtual interactive tutorials and experiments Self assessment questions and numerical exercises Links to online resources Appendix section from text Notes on Medical Virology , 1978 Notes on Medical Virology Eman Aldigs, 2017-01-29

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