

## 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

# Jimma University Virology Lecture Notes

**Tim Skern**



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**Microbiology, Immunology and Molecular Genetics 102** Asim Dasgupta, 2012      **Interactive Lecture Notes for Virology** Marc S. Horwitz, 2010      **Notes on medical virology** Morag Crichton Timbury, 1980      *Notes on Medical Virology*, 1978      *Understanding Viruses* Teri Shors, 2016-08-02 The Third Edition of best selling *Understanding Viruses* provides a strong comprehensive introduction to human viral diseases It provides a balanced approach to virology combining the molecular clinical and historical aspects making it the ideal text for undergraduate students majoring in biology microbiology medical technology or pre med      Coffee House Notes on Virology Tim Skern, 2009      *Medical Virology* Morag C. Timbury, 1991      *Essential Human Virology* Jennifer Louten, 2022-05-28 *Essential Human Virology* Second Edition focuses on the structure and classification of viruses virus transmission and virus replication strategies based upon type of viral nucleic acid Several chapters focus on notable and recognizable viruses and the diseases caused by them including influenza HIV hepatitis viruses poliovirus herpesviruses and emerging and dangerous viruses Additionally how viruses cause disease pathogenesis is highlighted along with discussions on immune response to viruses vaccines anti viral drugs gene therapy the beneficial uses of viruses research laboratory assays and viral diagnosis assays Fully revised and updated with new chapters on coronaviruses nonliving infectious agents and notable non human viruses the book provides students with a solid foundation in virology Focuses on human diseases and the cellular pathology that viruses cause Highlights current and cutting edge technology and associated issues Presents real case studies and current news highlights in each chapter Features dynamic illustrations chapter assessment questions key terms and a summary of concepts as well as an instructor website with lecture slides a test bank and recommended activities Updated and revised with new chapters on coronaviruses nonliving infectious agents and notable non human viruses      *Medical Virology* Morag C. Timbury, 1991      **Understanding Viruses, Third Edition and Encounters in Virology** Teri Shors, 2016-10-08 This money saving bundle includes *Understanding Viruses* Third Edition Includes *Navigate 2 Advantage* access AND the entertaining and informative *Encounters in Virology* case studies      **Introduction to Molecular Virology** Rybicki, 1999 Constitutes about half of a 60 lecture course Molecular and General Virology MIC303S in the Microbiology Department at the University of Cape Town

**Classroom Lectures on Human Viral Diseases Presented at the City University of New York** Igor V. Zaitsev, 2013-08-15 This volume provides a concise and comprehensive review on human viruses It is a powerful teaching tool for microbiology instructors coping with immense amounts of information to be covered in preparation for microbiology classes      Notes on Medical Virology Eman Aldigs, 2017-01-29      **Principles of Molecular Virology (Standard Edition)** Alan J. Cann, 2005-08-09 *Principles of Molecular Virology* Fourth Edition provides an essential introduction to modern

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Perspectives in Virology Gustav Stern Symposium on Perspectives in Virology, New York,1959

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