

# Veterinary Virology Lecture 1 – Introduction

## Learning Objectives

Describe the characteristics shared by all viruses.

Define the terminology used in virology (capsid, capsomere, envelope, virion, peplomere, defective virus (Lecture 4), nucleic acid, arboviruses and prions).

Describe the different morphologies of viruses.

Identify the different families of DNA and RNA viruses.

Discuss the different chemical components of a virus and their functions

- Nucleic acid content and structure

- Viral proteins and enzymes

- Lipids and carbohydrates

Know the nomenclature and the basis of taxonomy of viruses.

## NOTES

### Characteristic of viruses

Smallest infectious agents (20-300nm in diameter)

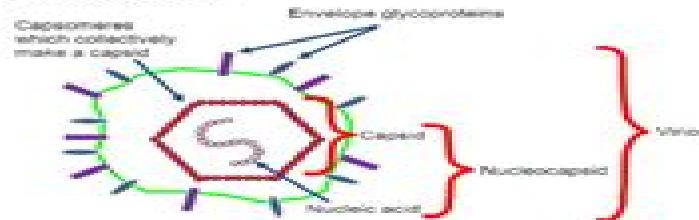
Filterable agents – when compared to bacteria

RNA or DNA surrounded by a protective protein shell (capsid) or protein + lipid envelope

Obligate intracellular parasites

Unique way of replication – programs infected cell to synthesize virus specific macromolecules (rely on the infected cell for energy too)

## Virion Structure



Helical structure – spiral shaped

Complex symmetry – brick shaped

Binary Symmetry – icosahedral head and helical tail

## Viral Envelope

Viruses may mature by budding through a membrane and acquiring a lipid envelope of host origin

Viral glycoproteins embedded in envelope important for virus/host interaction

Large viral envelope – glycoproteins may be referred to as spikes or peplomers

Envelope necessary for infectivity

## Viral Nucleic Acid

May be DNA or RNA and positive or negative

RNA – single molecule or segmented

Considerable variation in the way that viral nucleic acid is transcribed into mRNA and translated into protein

Genomes are haploid (except retroviruses)

Variable length

## Viral Proteins

Can be 2-100 viral proteins (depending on virus complexity)

Structural (incorporated into virions) or non-structural (enzymes)

Envelope proteins – glycoproteins

## Functions of Viral Proteins

### Structural

- Protect genome against inactivation by nucleases

- Assist with attachment

- Act as Ags

- Give structural symmetry

### Internal/non-structural

# Veterinary Virology Lecture Notes

**Muhammad Bashir, Haroon  
Chaudhry, Khalid Mansoor**

## **Veterinary Virology Lecture Notes:**

**Understanding Lectures (Systemic Veterinary Virology)** Muhammad Bashir, Haroon Chaudhry, Khalid Mansoor, 2018-11-26 Lecture Notes prepared by Veterinary Graduation students Subject Veterinary Virology *Refresher Course on Advances in Veterinary Virology*, 1982 [National Library of Medicine Current Catalog](#) National Library of Medicine (U.S.), 1989 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70 [Essentials of Veterinary Microbiology](#) Gordon R. Carter, M. M. Chengappa, A. Wayne Roberts, 1995 Intended for veterinarians this book covers all major aspects of veterinary microbiology. It aims to give typical morphologic and descriptive information on bacteria, fungi and viruses which have to be understood by students [Modern Veterinary Practice](#), 1981 [Emerging Infectious Diseases](#), 2011 [Proceedings](#), 1984 [Central Veterinary Conference Proceedings](#), 2002 **Veterinary Medical Review**, 1993 **Control of Newcastle Disease and Duck Plague in Village Poultry** Joanne Meers, 2004 These proceedings cover the papers presented at a workshop in Vietnam. The major areas of research have involved thermostable vaccines to control Newcastle disease in flocks of village chickens and development of an improved vaccine to control of duck plague [The Veterinary Bulletin](#), 1986 **Journal of the American Veterinary Medical Association**, 1989 [U.K. Vet](#), 2004 [Journal of the South African Veterinary Association](#) South African Veterinary Association, 1980 [Medical Sciences International Who's who](#) Informa Healthcare, 1994 [Medical and Health Care Books and Serials in Print](#), 1986 [Index of Conference Proceedings](#), 1995 **Equine Exercise Physiology Seminar** Reuben J. Rose, 1985 **The Illinois Veterinarian**, 1964

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