

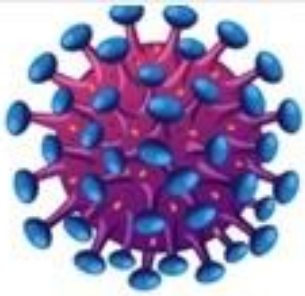
Structure & Life Cycle of Some Viruses

By

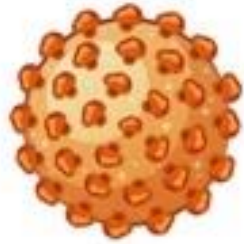
DR. PRAMOD KUMAR MAHISH

Asst. Professor and Head (Biotechnology)

Govt. Digvijay PG College Rajnandgaon (C.G.)



HIV



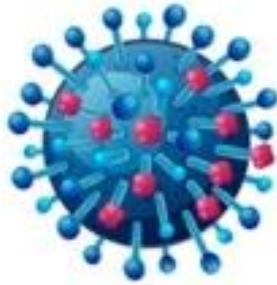
Hepatitis B



Ebola Virus



Adenovirus



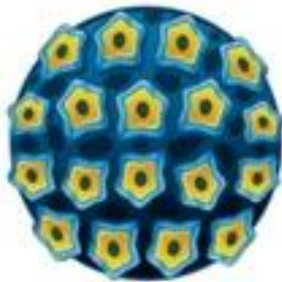
Influenza



Rabies Virus



Bacteriophage



PaPillomavirus



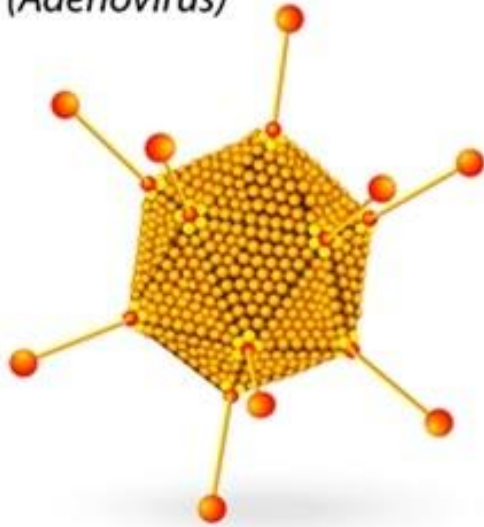
Rotavirus



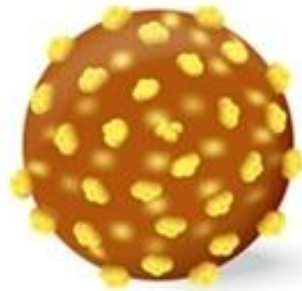
Herpes Virus

VIRAL SHAPES

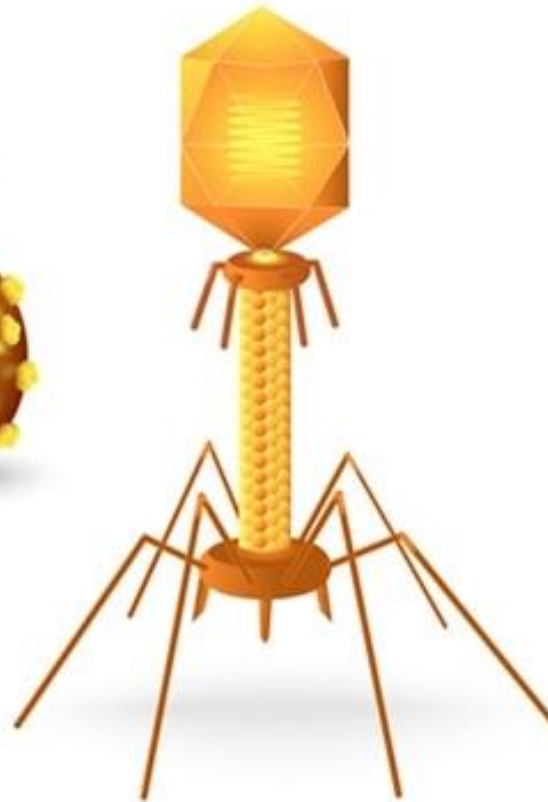
Polyhedral
(Adenovirus)



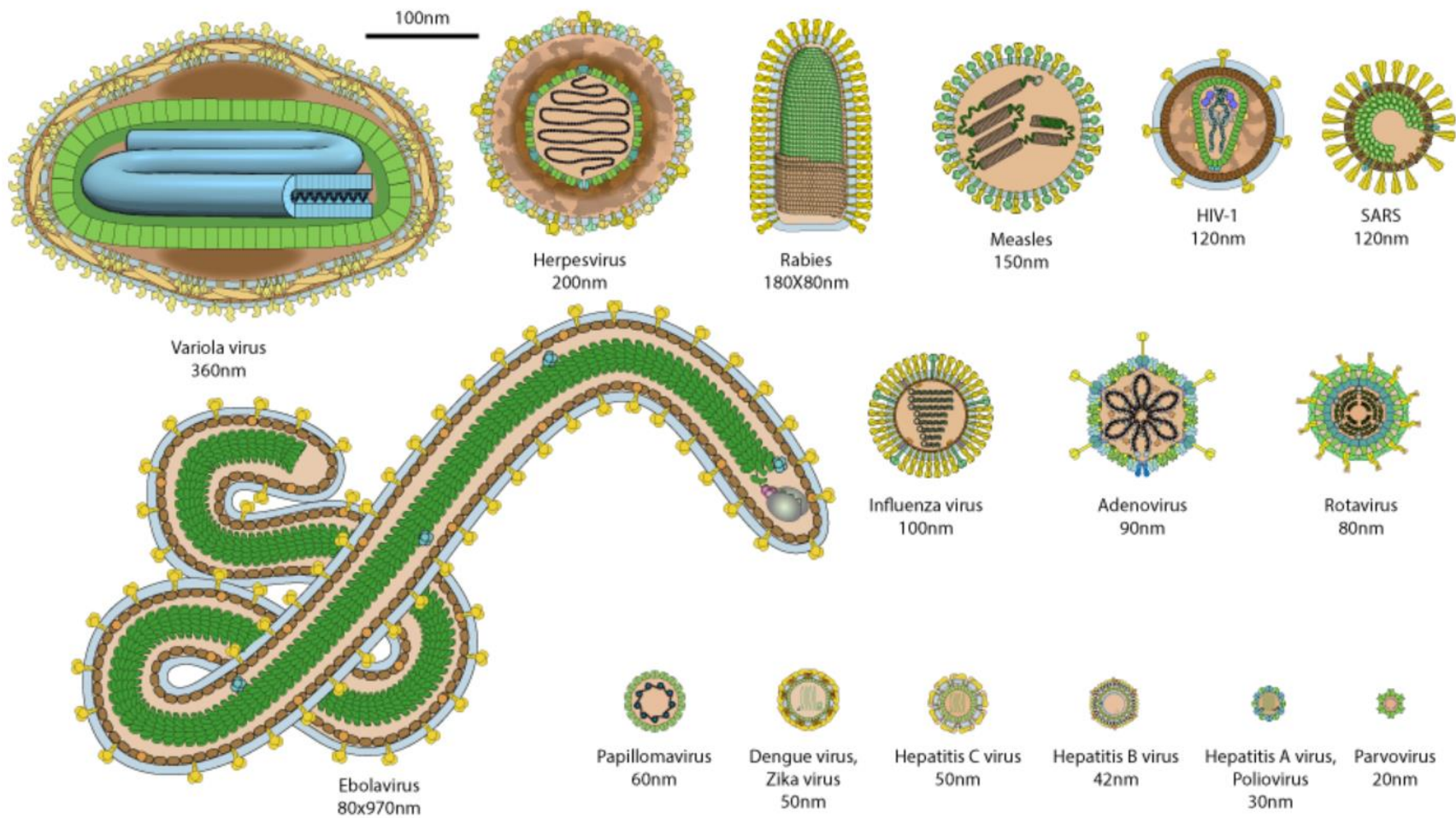
Spherical
(Influenza)



Helical
(Tobacco mosaic virus)

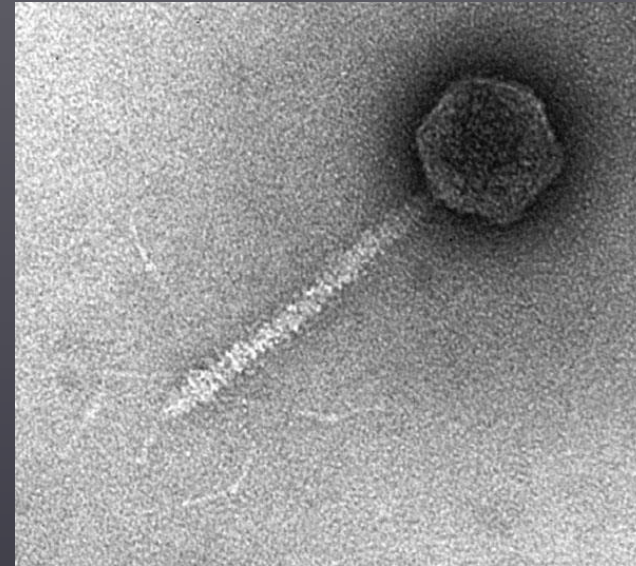
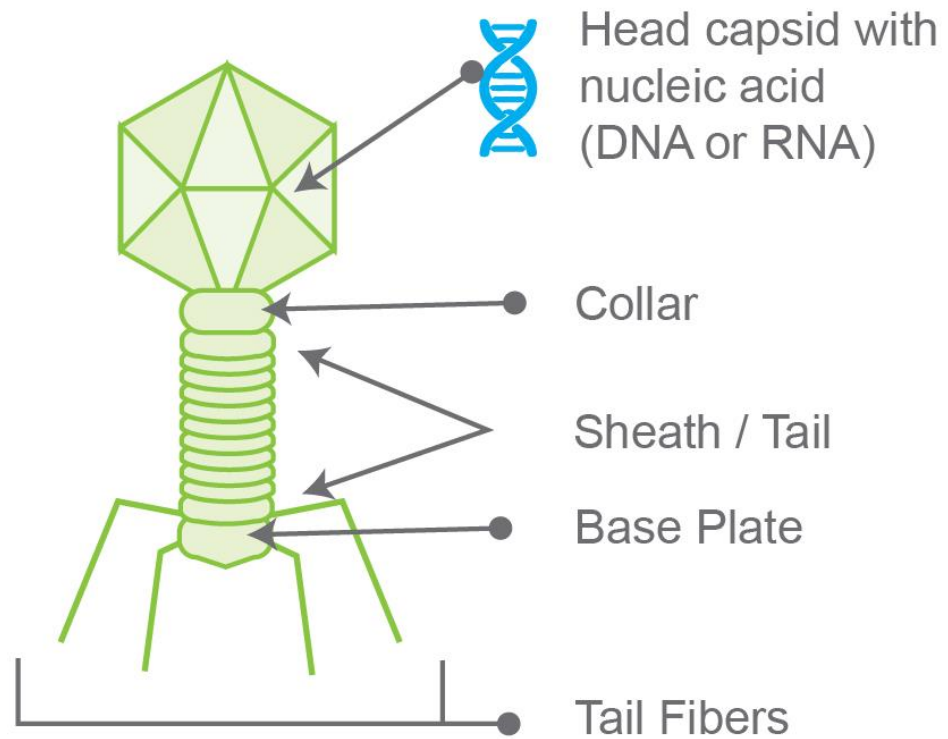


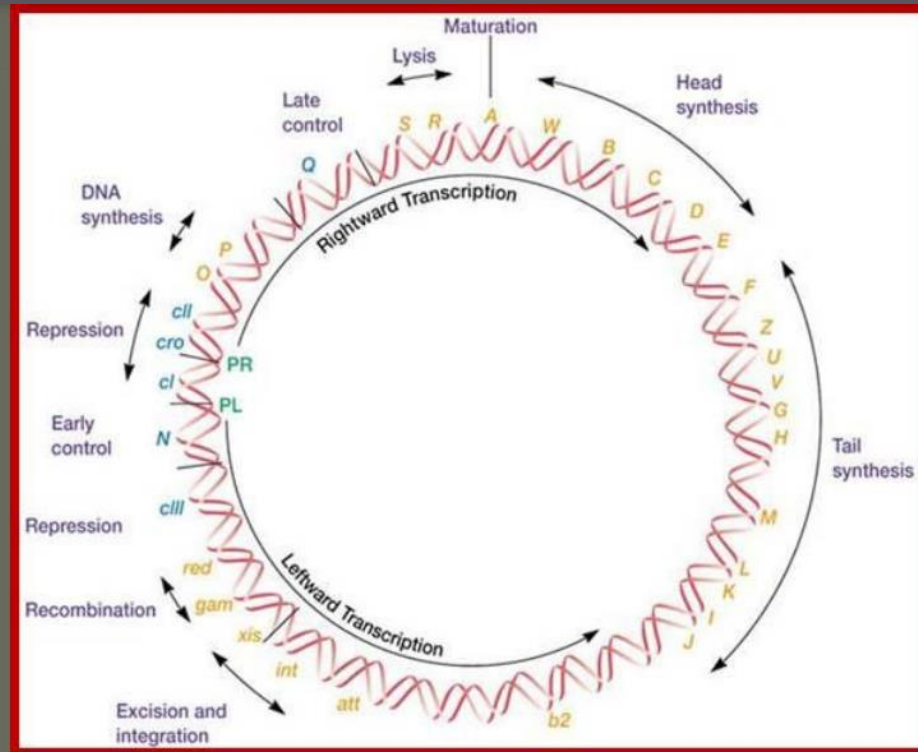
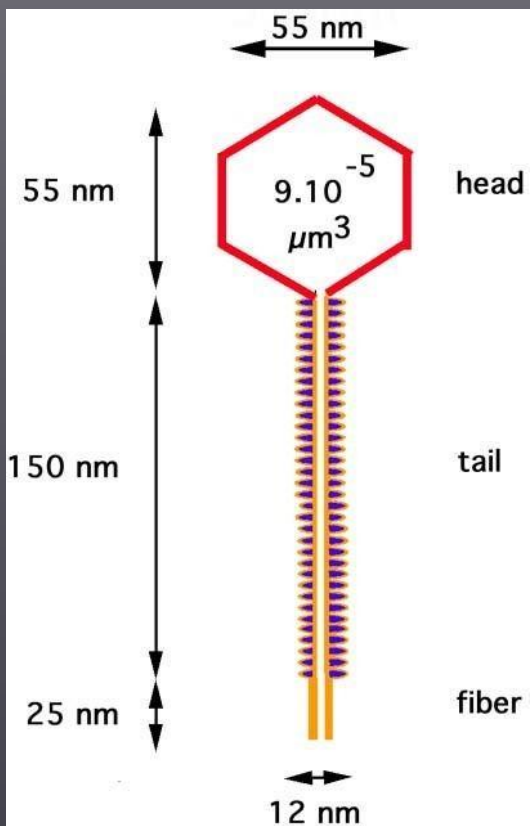
Complex
(Bacteriophage)



Lambda Phase

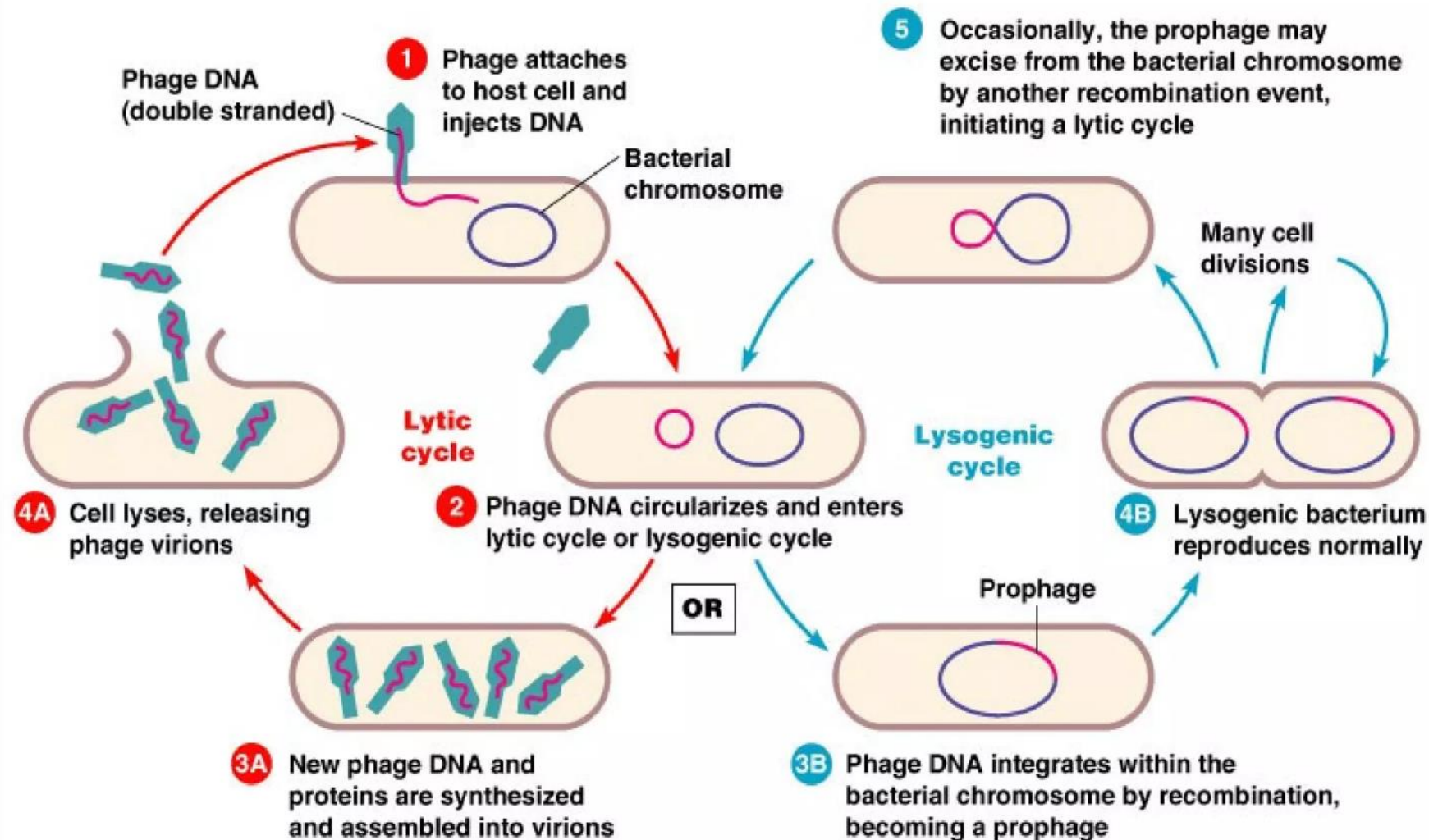
Lambda Phage





Frederick Sanger determined the complete nucleotide sequence of the DNA molecule in 1979. over 40 genes have been mapped in the λ genome that are clustered according to their function.

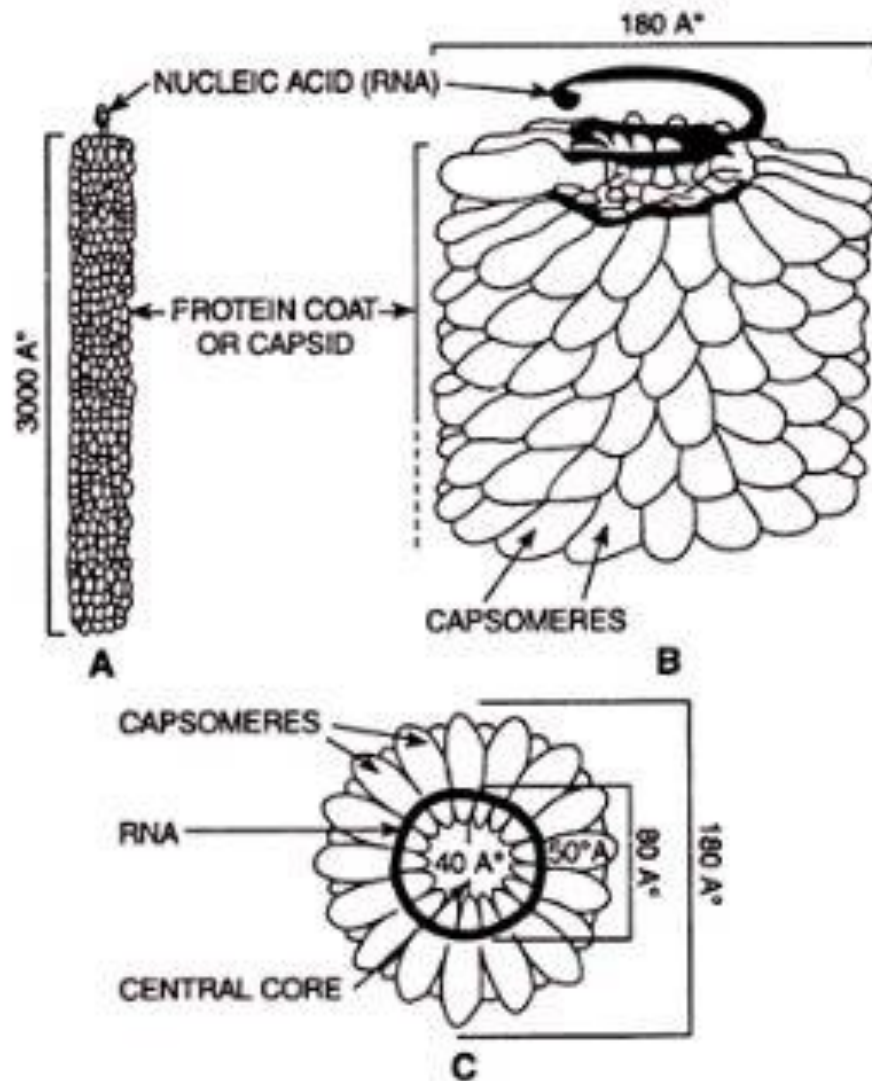
LIFE CYCLE :

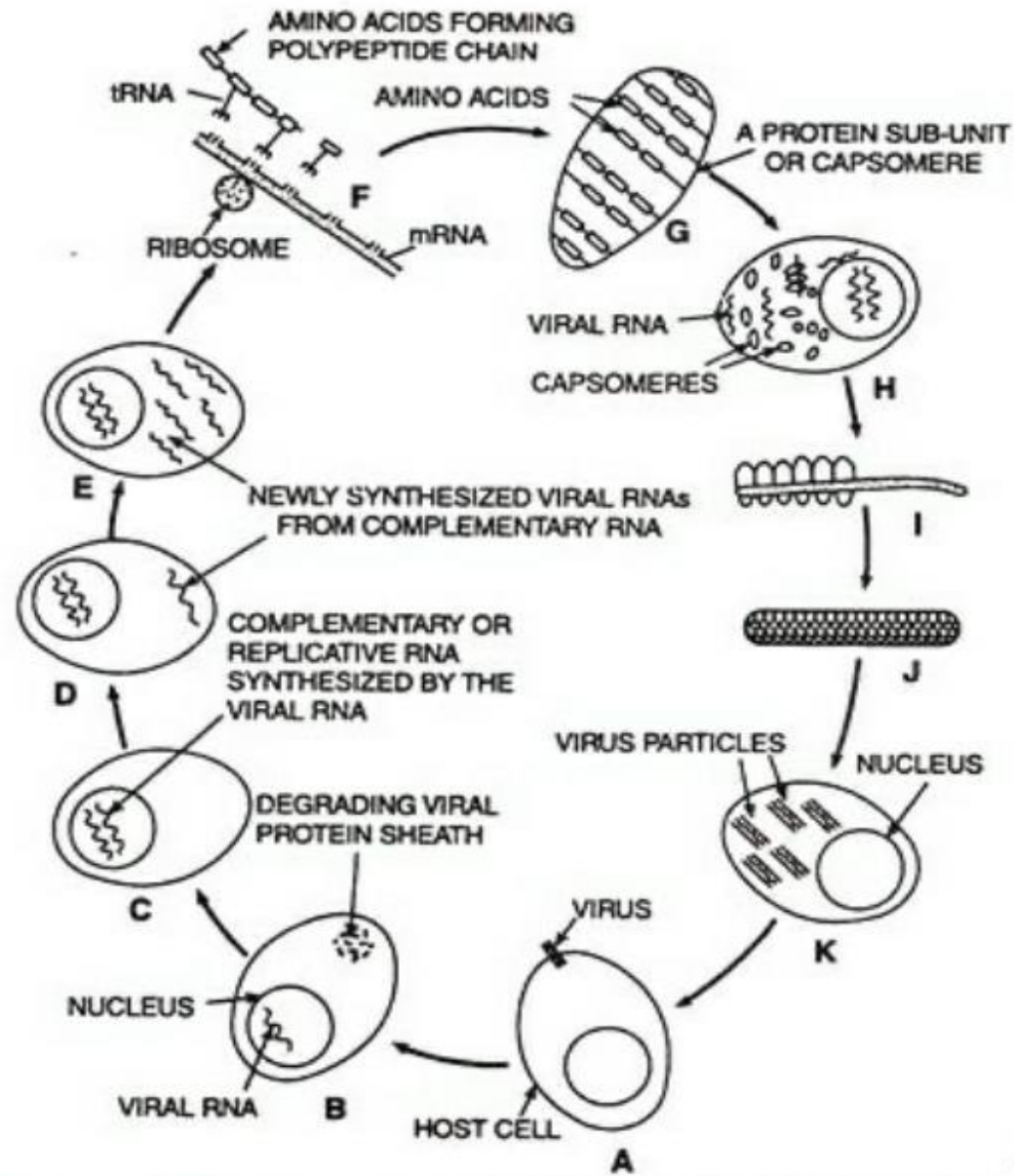


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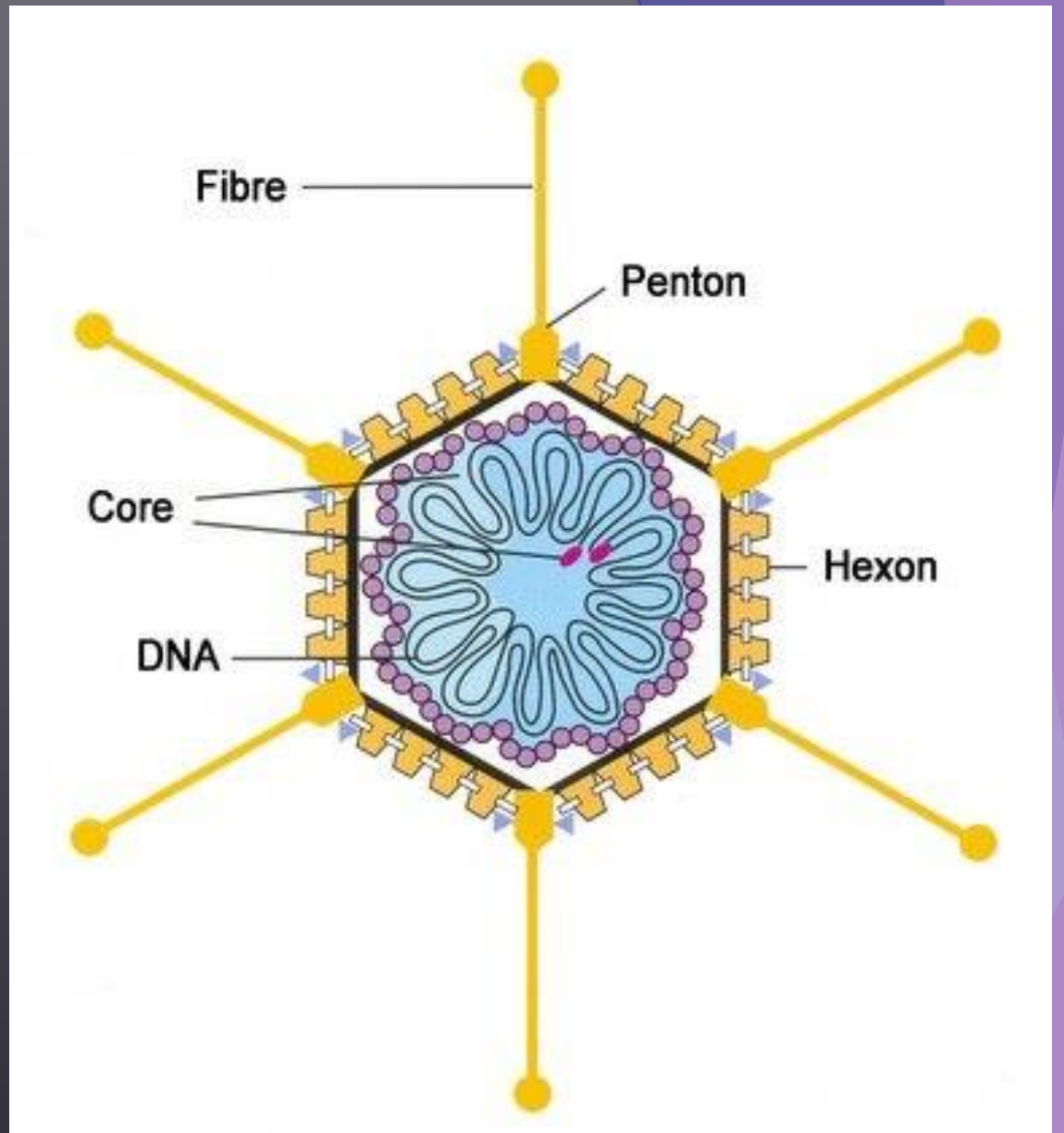
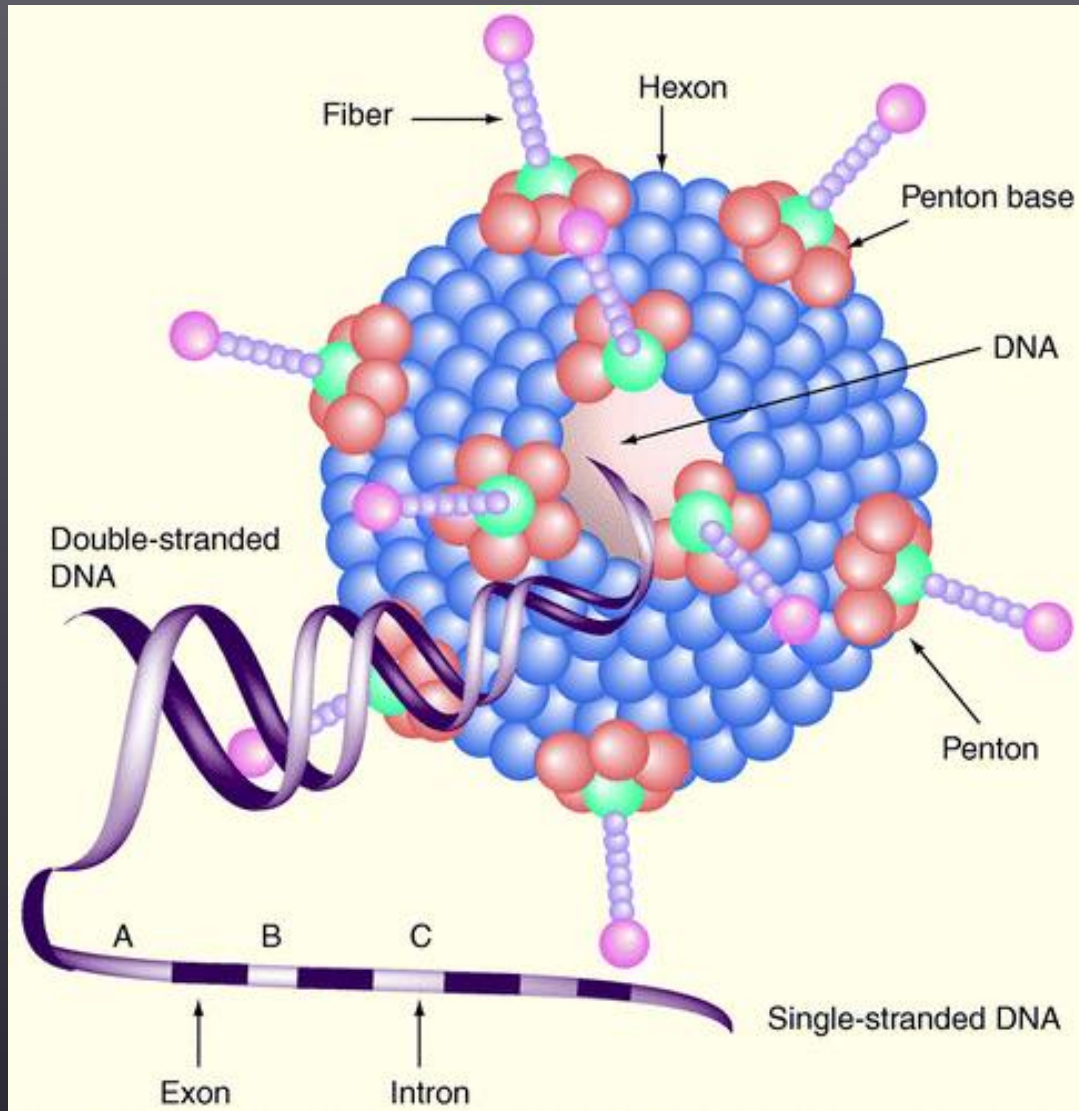
TMV

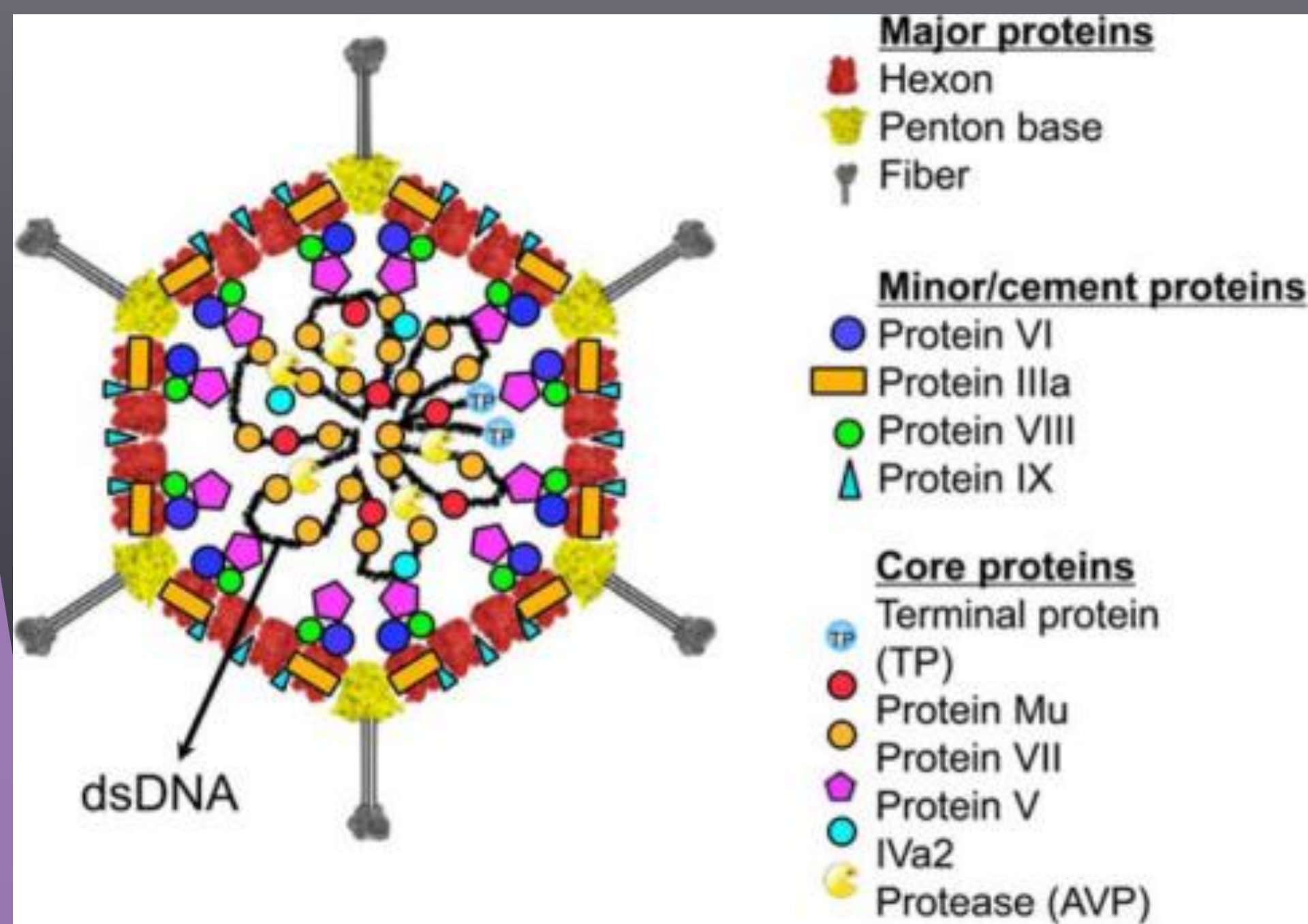


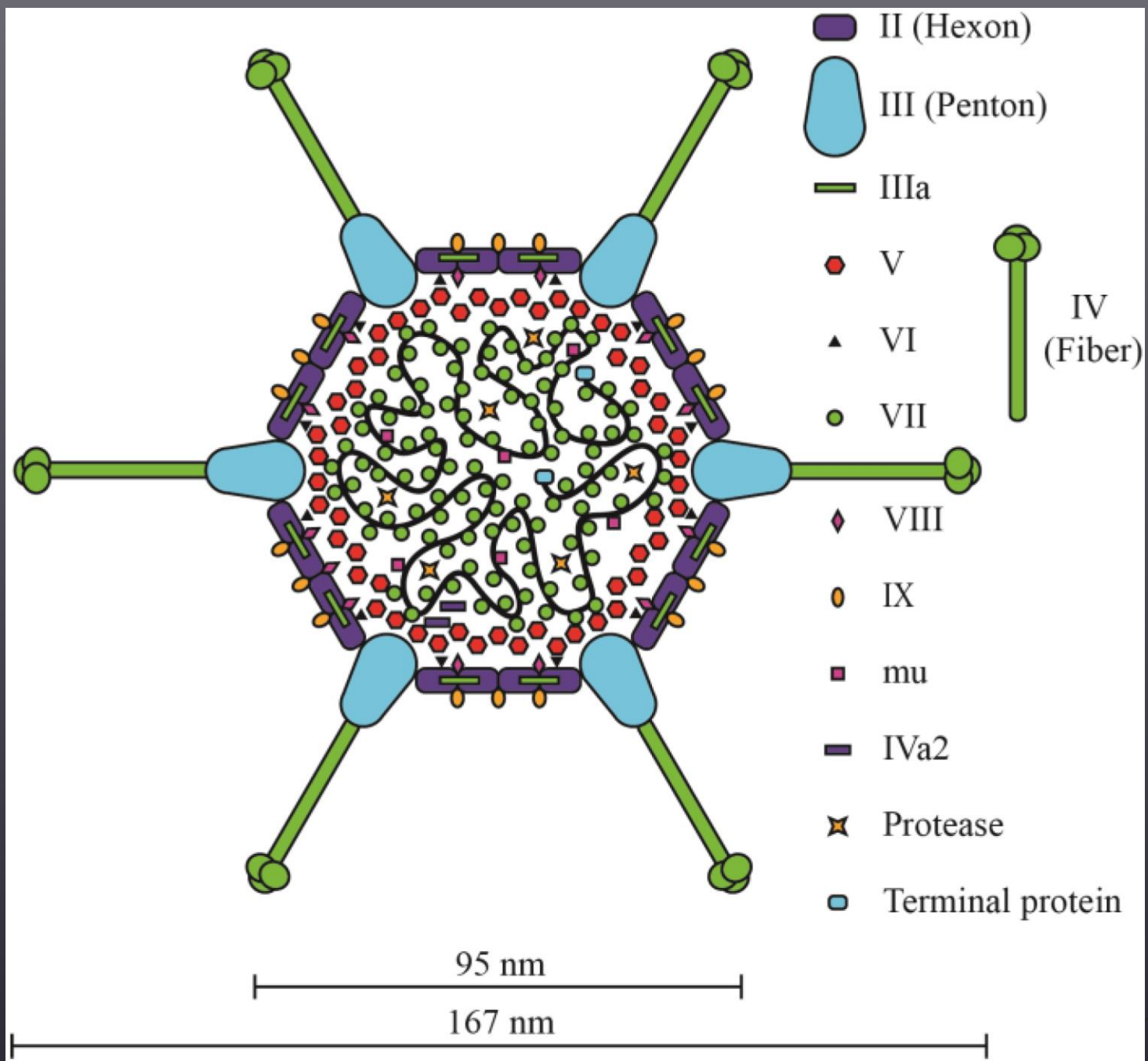


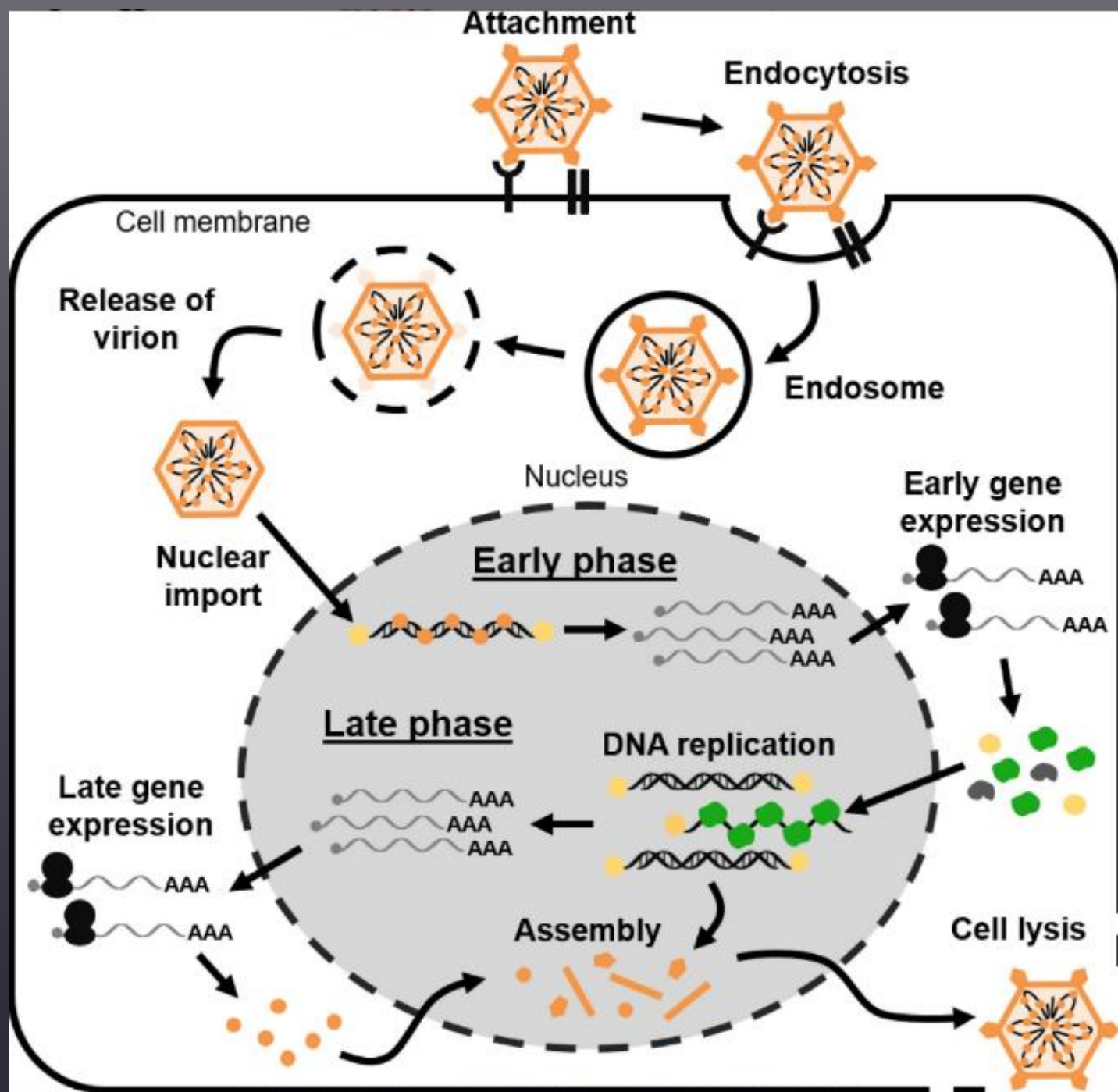
Replication of TMV (diagrammatic). A. Virus particle entering inside the cell of the host plant; B. & C. Viral RNA enters inside the nucleus and synthesizes its complementary copy; D. & E. Complementary RNA synthesizes new viral RNA that comes in the cytoplasm; F. Polypeptide chain synthesis; G., H. & I. Arrangement of capsomeres around viral-RNA; J. Complete virus particle; K. Host cell containing many virus particles.

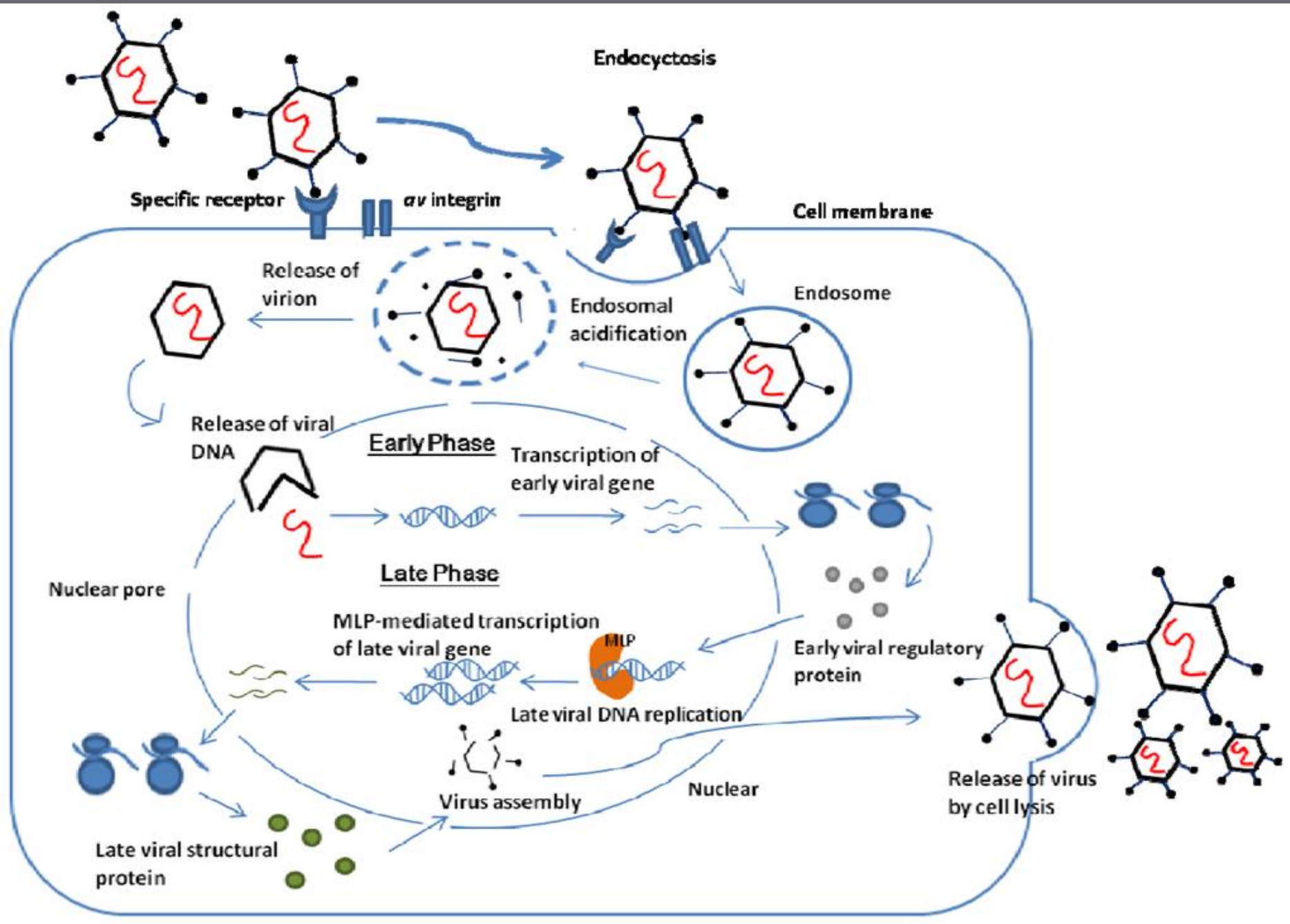
Adenovirus



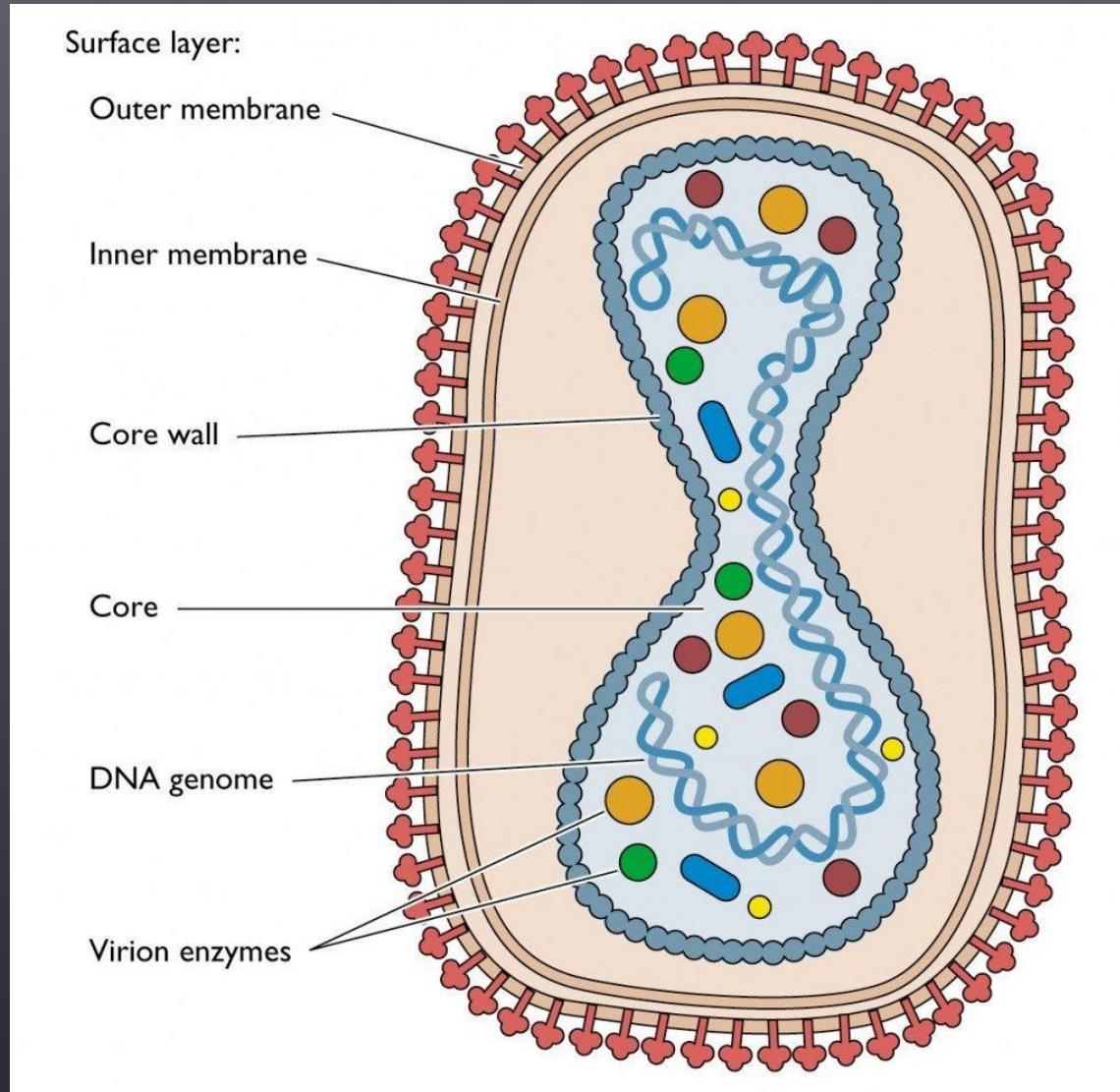


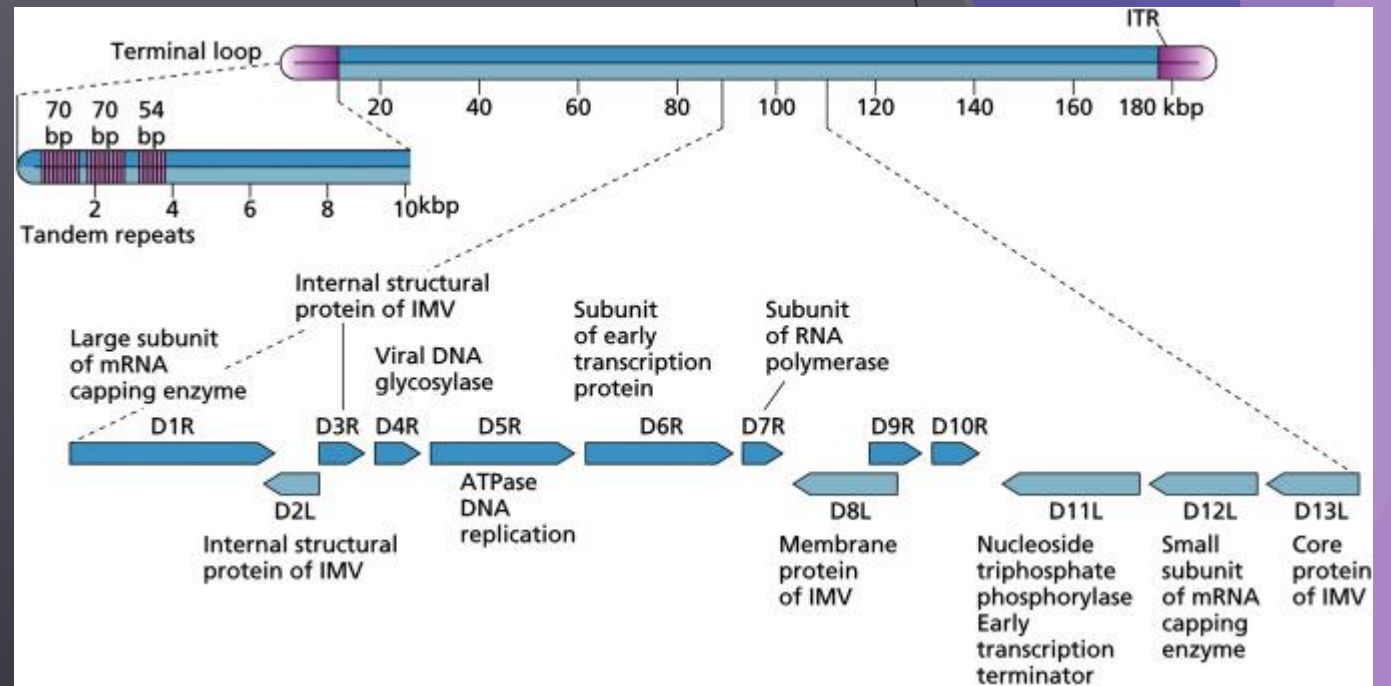
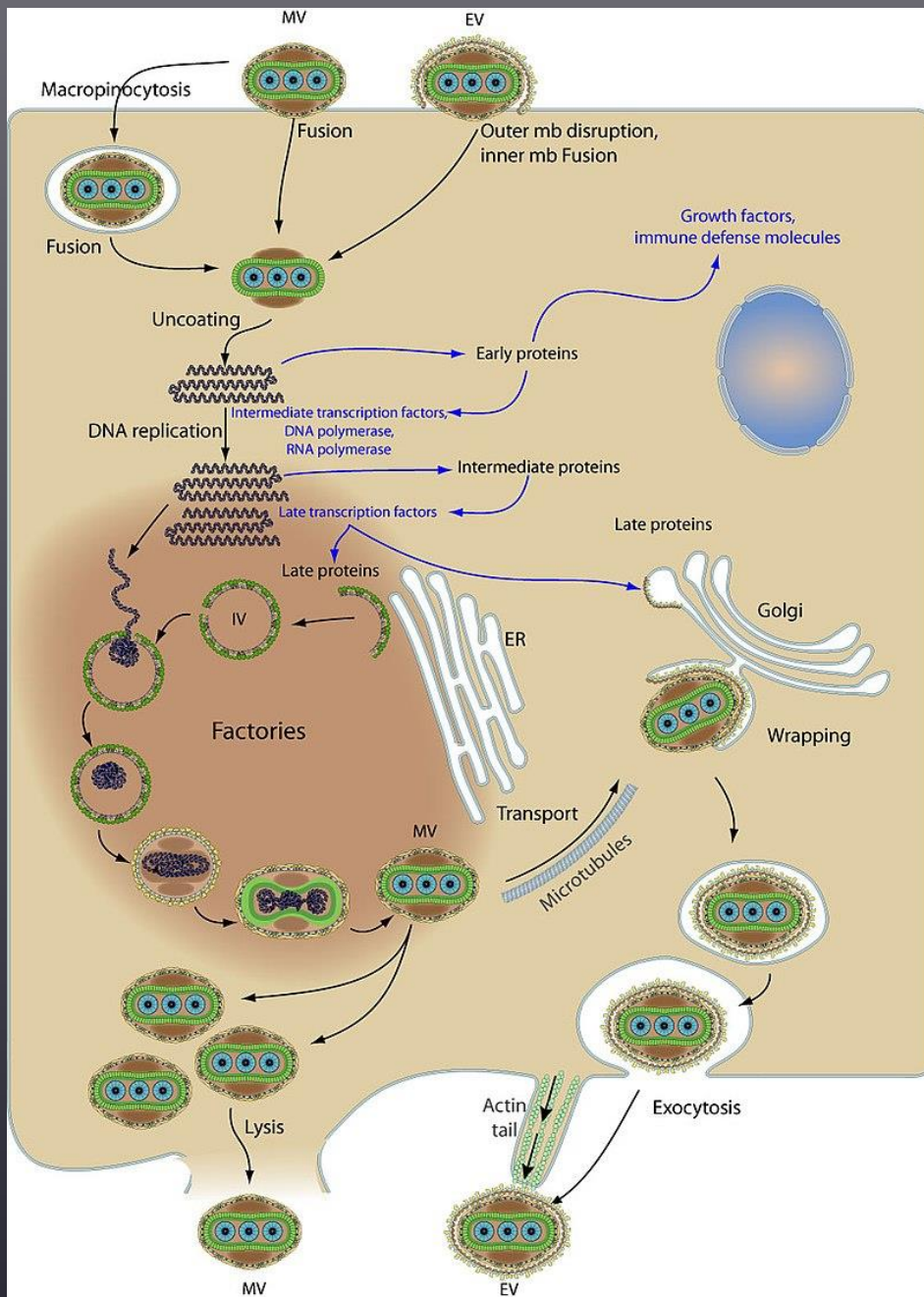






Pox virus







Thankyou