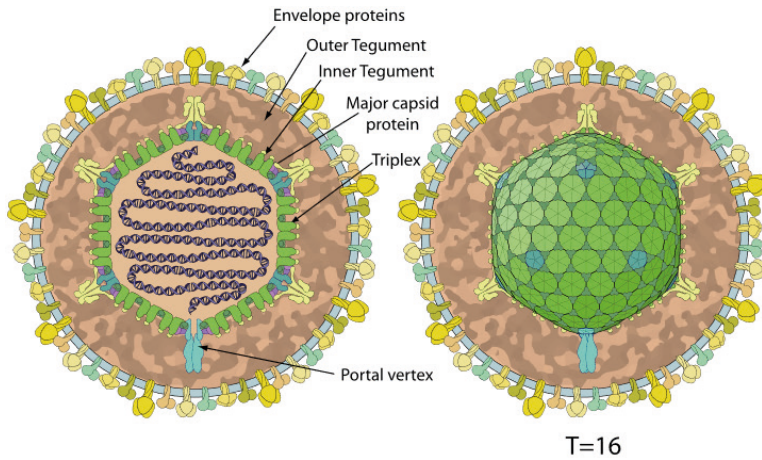
Zeynep AKKUTAY YOLDAR¹**GENEL BİLGİLER**

Herpes, Yunanca "herpein" kelimesinden gelmekte olup; sürünmek ya da yayılmak anlamına gelir ve bu adlandırma, herpesvirus lezyonlarının deride yayılmasından kaynaklanmaktadır. Büyük genomlu ve büyük boyutlu viruslar olan herpesviruslar yumuşakçalardan omurgalılara birçok canlıyı içeren geniş bir konakçı spektrumuna sahiptirler. Omurgalılar içerisinde de insanlar, memeliler, kuşlar, balıklar ve sürüngenler dahil olmak üzere farklı canlıları enfekte edebilen çift sarmallı DNA içeren zarflı viruslardır. ICTV'ye (Uluslararası Virus Taksonomisi Komitesi) göre 124 tür içeren *Herpesvirales* takımı *Orthoherpesviridae*, *Alloherpesviridae* ve *Malacoherpesviridae* aileleri olmak üzere üç aile içerir. Tüm dünyada yaygın halde bulunan herpesviruslar, çizgisel çift sarmallı, 108.4-241 kilo baz (kb) çifti büyüklüğünde linear

tek segmentli DNA genomuna sahip olup, tegumentlerinin de varlığıyla birçok diğer DNA ve RNA virusundan çok daha büyüktür. Genetik yapıları ve enfeksiyon mekanizmaları açısından karmaşık olan herpesviruslar genomlarında viral replikasyon, bağışıklık kaçıışı ve latent enfeksiyon gibi kompleks süreçleri düzenleyen 70-170 gen bulundurabilirler ve genomlarının içeriğinde %31 ile %77 arasında değişen oranlarda guanin (G) ve sitozin (C) içerebilmektedirler. Herpesviruslar sadece içerdikleri yüksek sayıda genin varlığıyla değil, 150 hekzon, 11 penton ve 162 kapsomerden oluşan genomu koruyan kapsidi, iç ve dış katmanları olan ve hücre içinde replikasyonu başlatmak için gerekli proteinleri taşıyan tegument tabakası ve konak hücreden aldıkları lipid zarfıyla da karmaşık bir yapı sergileyen T=16 ikozahedral simetride viruslardır (ICTV).

**Şekil 13.1** Orthoherpesviridae virion (104).

¹ Doç. Dr., Ankara Üniversitesi, Veteriner Fakültesi, Viroloji AD., akkutay@ankara.edu.tr, ORCID iD: 0000-0002-1178-5347

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