



## Recent Advances in Herpesviruses

Guest Editor:

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### Message from the Guest Editor

$\alpha$ - $\beta$ - $\gamma$ -Herpesviridae belong to the Herpesviridae family. They share the same structure and cycle properties. Herpesviruses are organized in icosahedral capsids that surround DNA-stranded genomic DNA. Herpesviruses, have two cycle steps: they show a latent phase, without productive virions, and a lytic phase, with the release of mature virions. The lytic phase can be induced by several stimuli in vitro and in vivo. The acute infection persists in vivo models in oropharyngeal epithelium without a release of productive virions. The lytic state is characterized by the expression of specific genes. The lytic proteins are necessary to organize the viral DNA in concatameric structures and to form the mature capsids. The nucleocapsids are released from the nucleus to the cytosol compartments by a proposed specific model. The nuclear membrane leaflets are necessary to organize the nuclear complex to induce the release and translocate the nuclear capsids into the cytosol. The latent phase is characterized by the expression of viral proteins involved in cellular and viral mechanisms. They regulate cell cycle progression, apoptosis and cellular proliferation.





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