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Name of Journal: *World Journal of Virology*

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Regulation of Wnt/ β -catenin signaling by herpesvirusesKevin J Zwezdaryk, Joseph A Combs, ²Cindy A Morris, Deborah E Sullivan

Abstract

⁴⁰The Wnt/ β -catenin signaling pathway is instrumental in successful differentiation and proliferation of mammalian cells. It is therefore not surprising that the herpesvirus family has developed mechanisms to interact with and manipulate this pathway. Successful coexistence with the host requires that herpesviruses establish a lifelong infection that includes periods of latency and reactivation or persistence. Many herpesviruses establish latency in progenitor cells and viral reactivation is linked to host-cell proliferation and differentiation status. Importantly, Wnt/ β -catenin is tightly connected to stem/progenitor cell maintenance and differentiation. Numerous studies have linked Wnt/ β -catenin signaling to a variety of cancers, emphasizing the importance of Wnt/ β -catenin pathways in development, tissue homeostasis and disease. This review details how the alpha-, beta-, and gammaherpesviruses interact and manipulate the

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