



HIV Interactions with Dendritic Cells

By Li Wu

Springer-Verlag GmbH Sep 2012, 2012. Buch. Book Condition: Neu. 246x167x23 mm. Neuware - Studying the mechanisms of HIV-1 interactions with dendritic cells (DCs) is critical to understand HIV pathogenesis and develop more effective interventions against HIV infection and AIDS. DCs perform a pivotal role in the induction and regulation of the adaptive immune response; however, HIV impairs DC function and exploits DCs to spread viral infection to target CD4+ T cells. Interactions between HIV and DCs are of vital importance because DCs are among the first cells to encounter HIV-1 at the mucosal surface. Immature DCs allow productive HIV replication and long-term viral dissemination. As immature DCs traffic to the lymph node, they become mature and are highly proficient at transmitting HIV-1 to CD4+ T cells for efficient viral spread. Thus, DCs can be hijacked by HIV-1 to aid in the initial stages of HIV-1 infection of a host, with roles in establishment of an infection and dissemination of HIV-1 throughout the host. In addition, HIV interactions with DCs alter innate and adaptive immune responses to the virus, which can impair anti-HIV immunity and play an important role in HIV persistence. Furthermore, as professional antigen presenting cells, DCs have been...



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