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Title	HIV-1 Tat Dysregulation of KSHV Induced Immune Response Through the Production of IL-8
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response to BCG infection. The reduction of cytokines production was not associated with cell death. On the other hand, IL-17A promoted TNF-α and IL-6 production by macrophages during *K. pneumoniae* infection. Furthermore, IL-17A did not affect TNF-α production induced by LPS and Pam₃Cys, which are TLR4 and TLR2 agonists, respectively. The data suggest that the differential regulation of cytokines production by IL-17A requires whole bacterium infection.

HIV-1 Tat Dysregulation of KSHV Induced Immune Response Through the Production of IL-8

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Human immunodeficiency virus (HIV) causes acquired immunodeficiency syndrome (AIDS) and is a major health issue around the world. HIV is known to induce a number of pathological problems in AIDS patients via the transactivator (Tat) protein that is expressed and released by infected cells. One of the most important function of Tat is the dysregulation of the immune response. IL-8 is a chemokine known to be highly expressed in AIDS patients and Tat plays a major role in its production. IL-8 increases the HIV transmission and replication rate; and plays a role in Kaposi's sarcoma associated herpesvirus (KSHV) infection, which is a major opportunistic pathogen that AIDS patients are at risk to. KSHV is also known to induce the expression of IL-8 in patients, and IL-8 is known to assist tumour development by increasing angiogenesis. In our study, we investigated the role that Tat may have in manipulating the expression of IL-8 induced by KSHV in primary blood monocyte derived macrophages (PBMac). The results showed that pretreatment of PBMac with Tat inhibited the expression of IL-8 induced by KSHV by approximately 40%. We also found that Tat was able to inhibit the phosphorylation of STAT-1 induced by KSHV, and the inhibition of STAT-1 phosporylation was related to the expression of IL-8 induced by KSHV. In conclusion, we found that Tat was able to manipulate the expression of IL-8 induced by KSHV in macrophages, and this inhibition of IL-8 expression was regulated through the STAT-1 related pathways.

Coping When a Child has Special Needs: Exploring the Function of Information from Community and Online Sources

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Background: Managing children with special needs can be physically and mentally demanding at times. Having adequate healthcare information can aid parents in their decision making.

Objective: This study recruited family members of children with special needs and professionals in relevant fields in Hong Kong. It aimed to explore the role and function of information from community and online sources with a specific focus on special parenting.

Methods: Qualitative focus group interviews were conducted in a semi-structured format. After obtaining informed consent, forty-nine participants were interviewed on issues of both general and online information seeking experiences. Two themes (information needs and sources of information supplementary to healthcare professional advice) were identified from the interviews.

Results: Results showed that caregivers need health- and service-related information to effectively manage the daily life of children with special needs. Having adequate information related to caregiving can foster parents' mental health. The Internet emerges as a new source for today's parents to seek information and identify "similar others" for support.

Conclusions: Lack of information and emotional support can harm the mental health and parenting skills of the parents especially those having children with special needs. Despite an increasing amount of health-related information in the Internet, parents'e Health literacy is critical for proper use and interpretation of online information. Conventional sources of information such as community groups are particularly important for parents with low eHealth literacy.