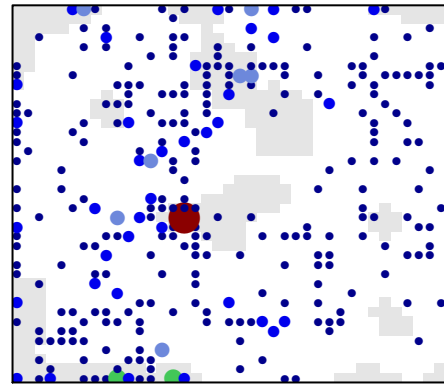
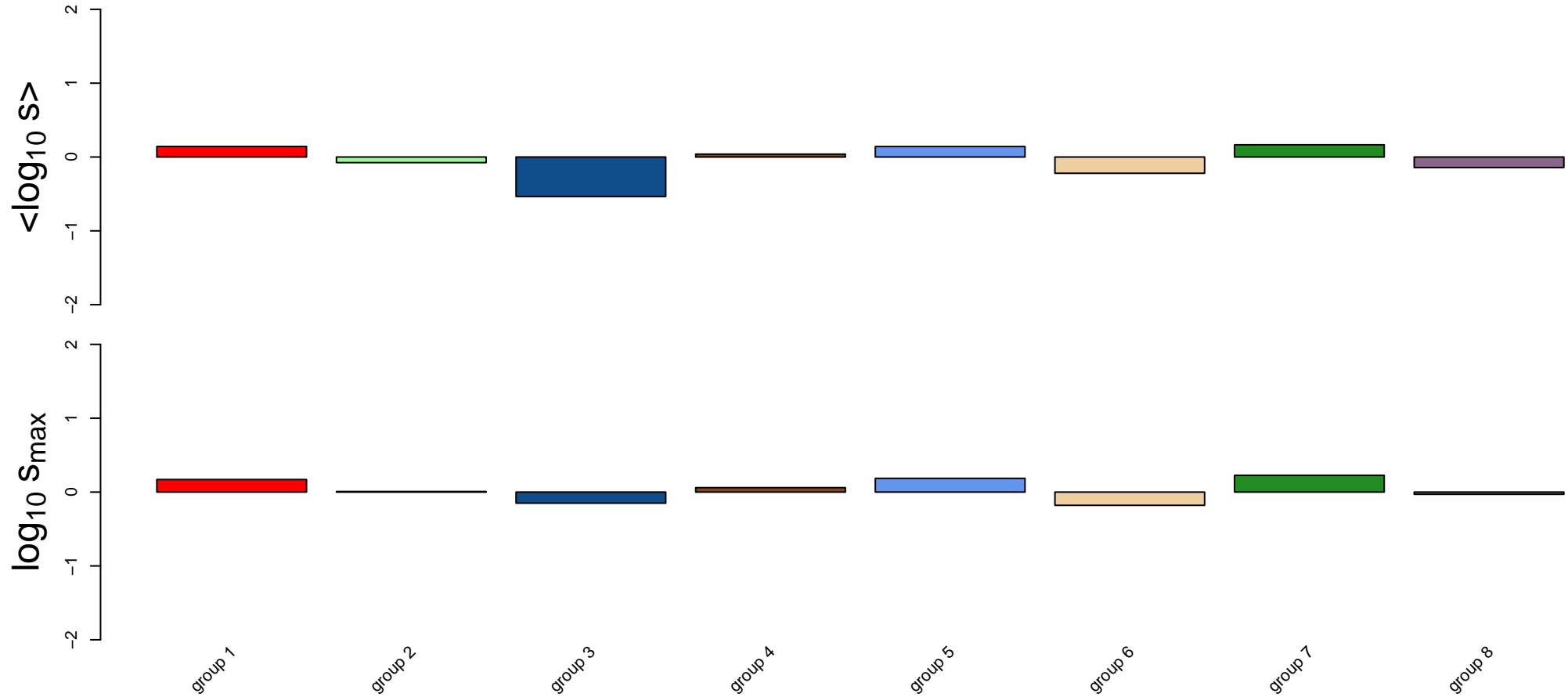
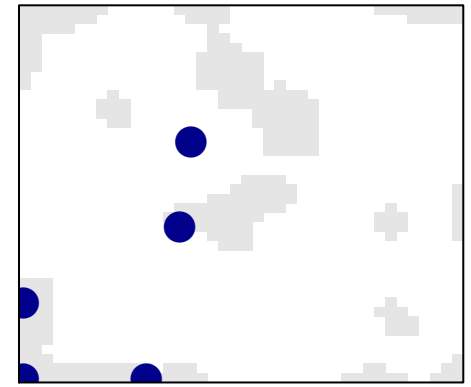


# Viral carcinogenesis

all genes

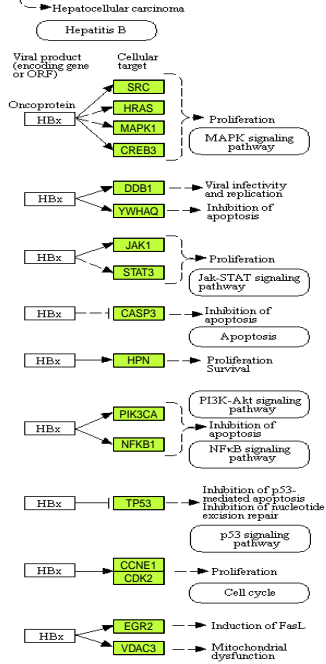


sink node genes

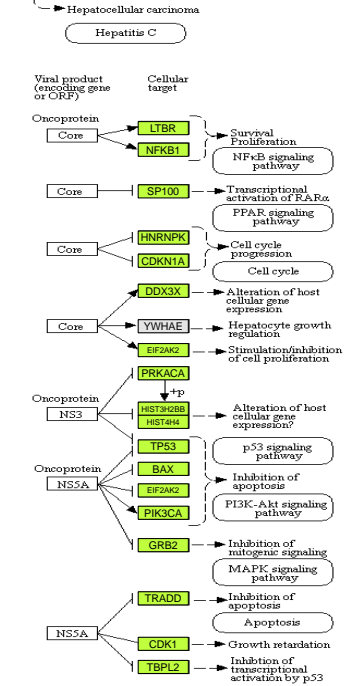


**Viral carcinogenesis genes-with data**

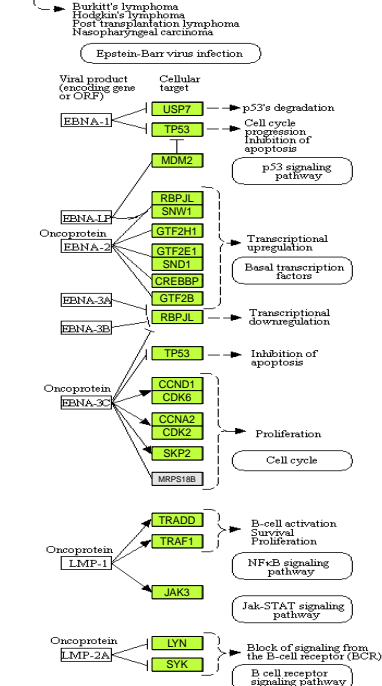
**Hepatitis B virus (HBV)**



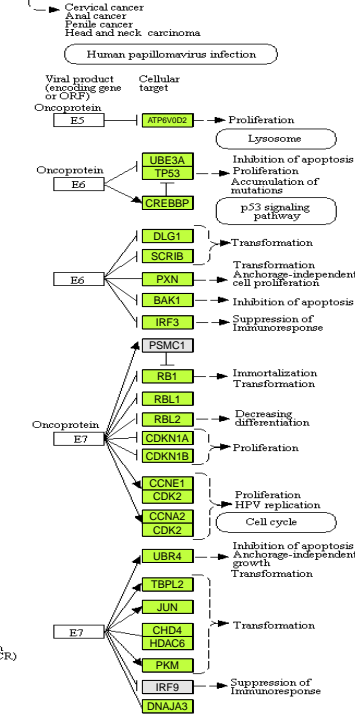
**Hepatitis C virus (HCV)**



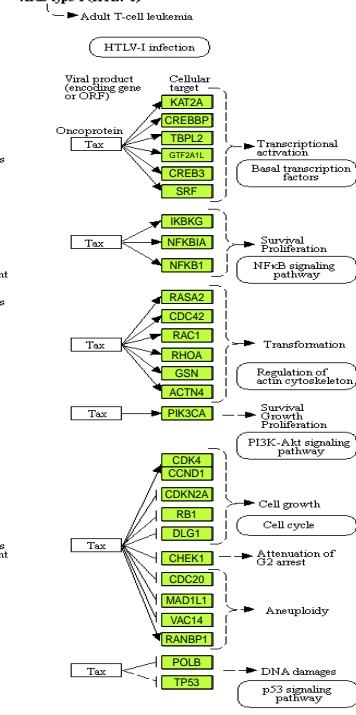
**Epstein-Barr virus (EBV)**



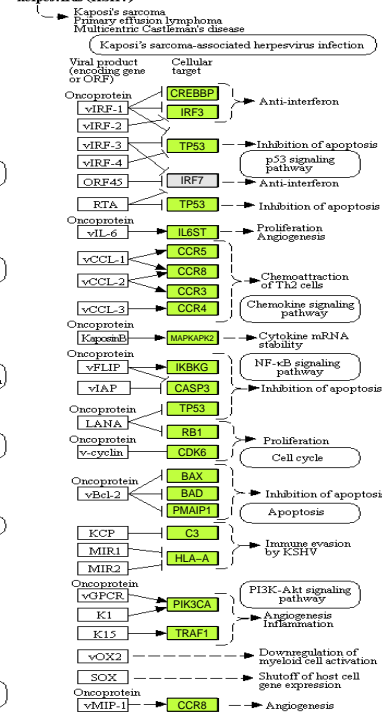
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type I (HTLV-I)**

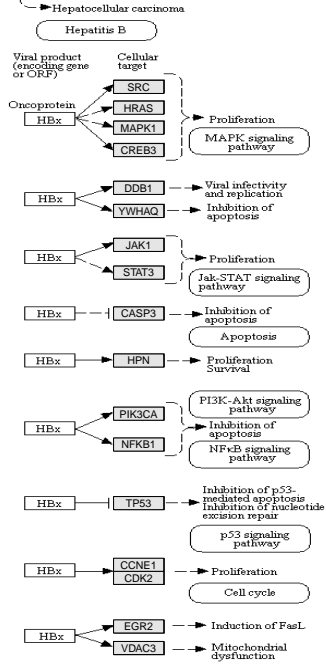


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

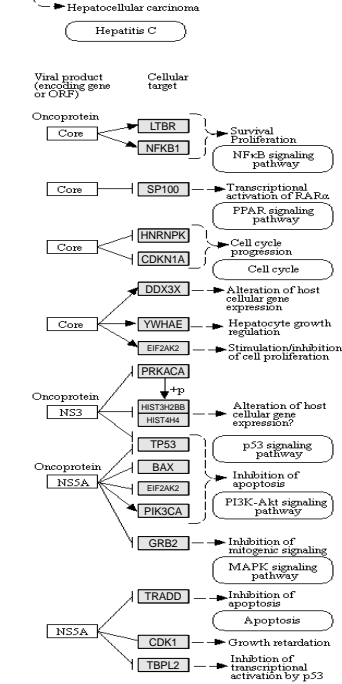


**Viral carcinogenesis sink nodes**

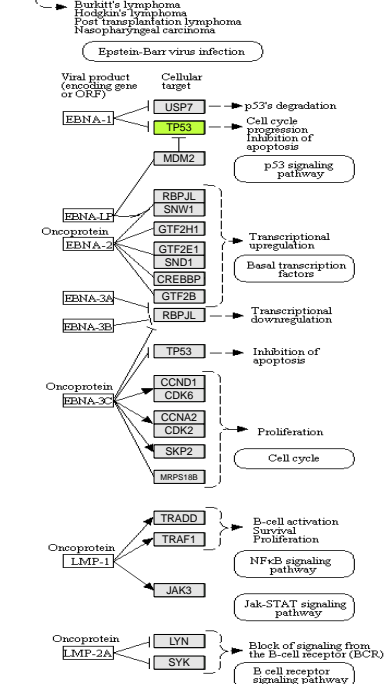
**Hepatitis B virus (HBV)**



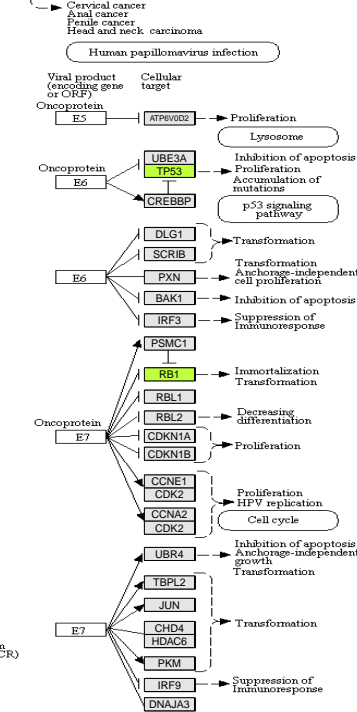
**Hepatitis C virus (HCV)**



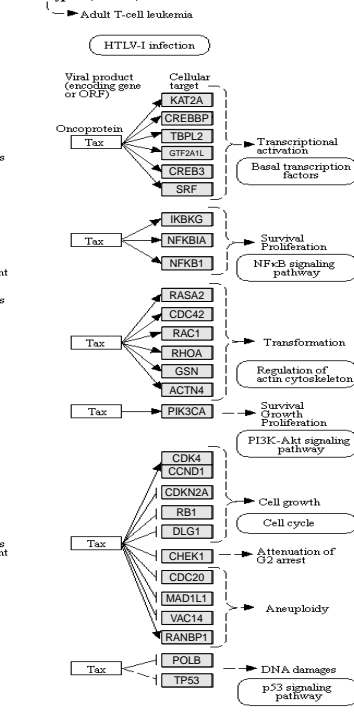
**Epstein-Barr virus (EBV)**



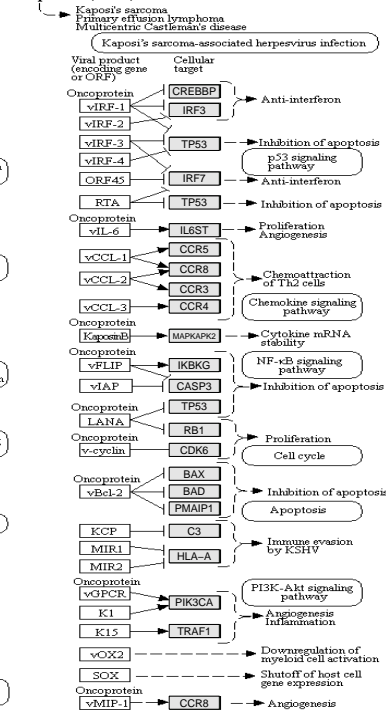
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type I (HTLV-I)**

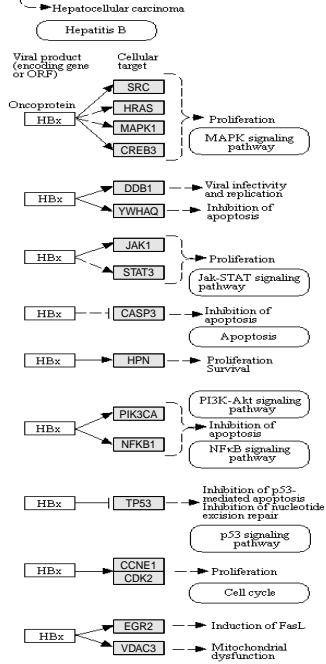


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

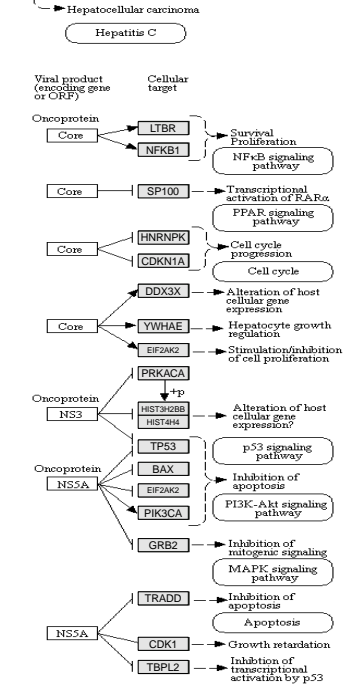


**Viral carcinogenesis  
influencer genes**

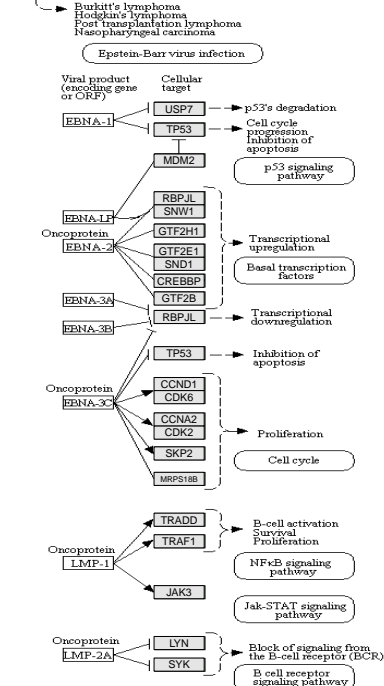
**Hepatitis B virus (HBV)**



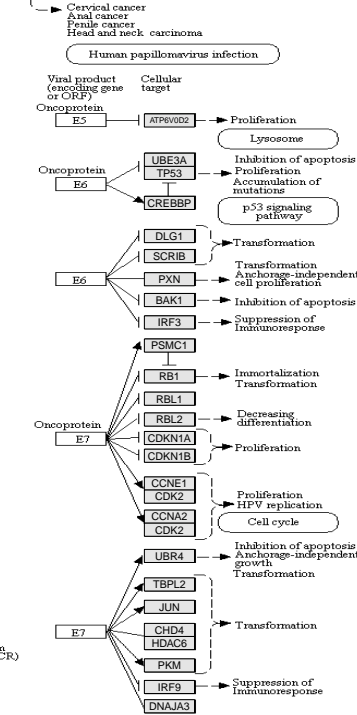
**Hepatitis C virus (HCV)**



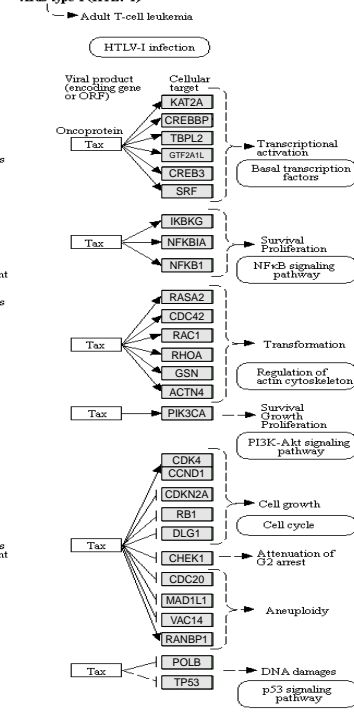
**Epstein-Barr virus (EBV)**



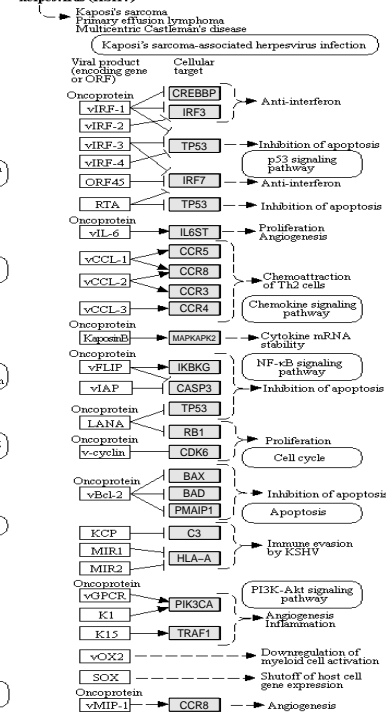
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type I (HTLV-I)**

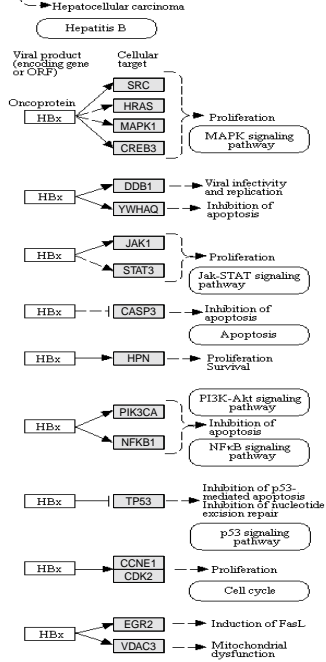


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

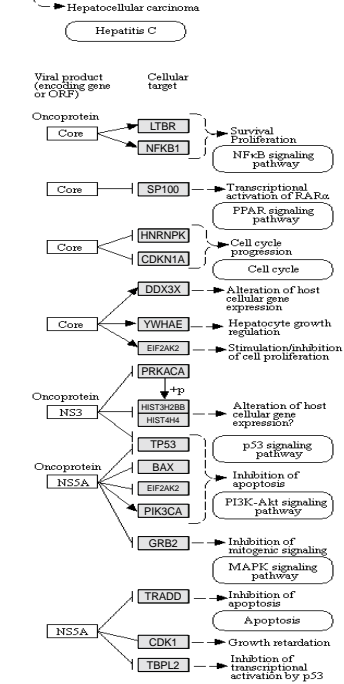


**Virul carcinogenesis group 1**

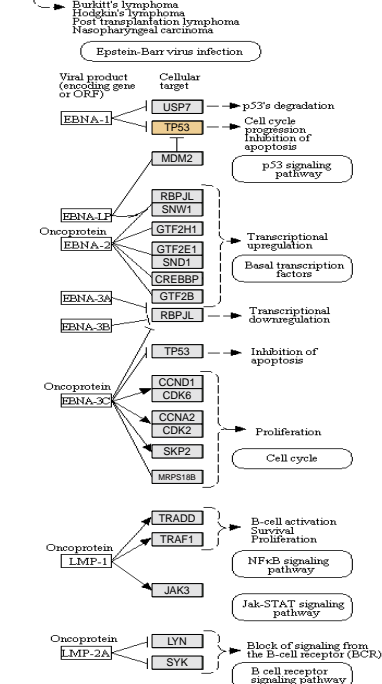
**Hepatitis B virus (HBV)**



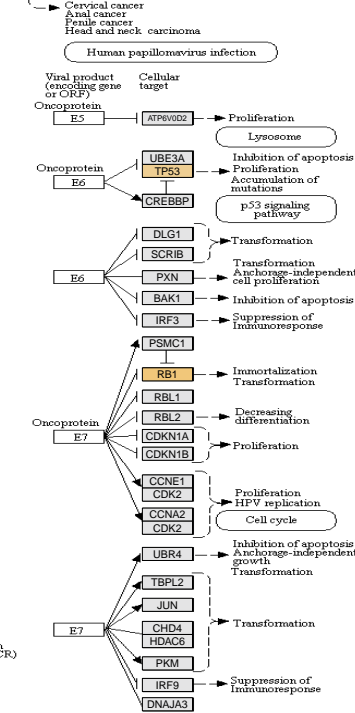
**Hepatitis C virus (HCV)**



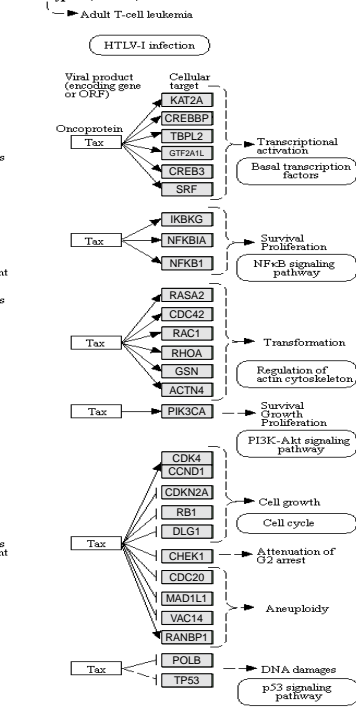
**Epstein-Barr virus (EBV)**



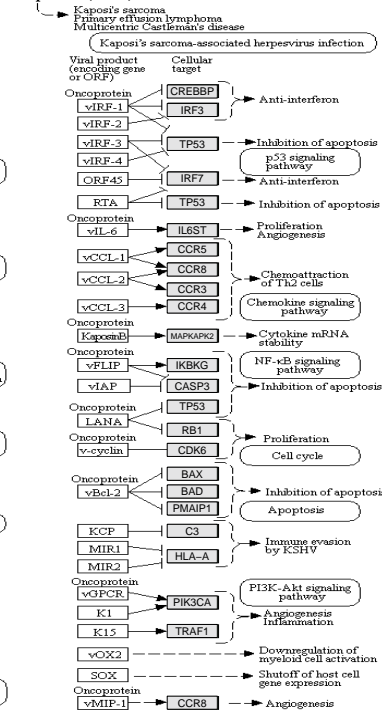
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**

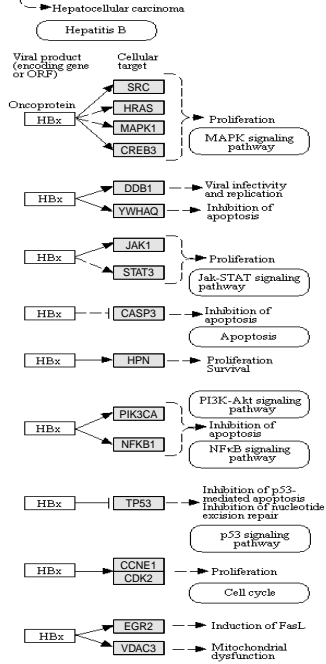


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

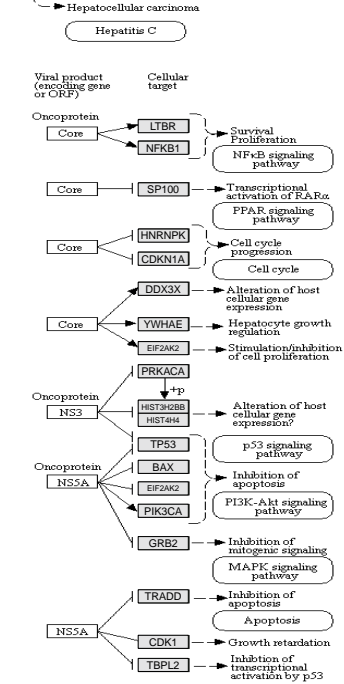


**Virul carcinogenesis group 2**

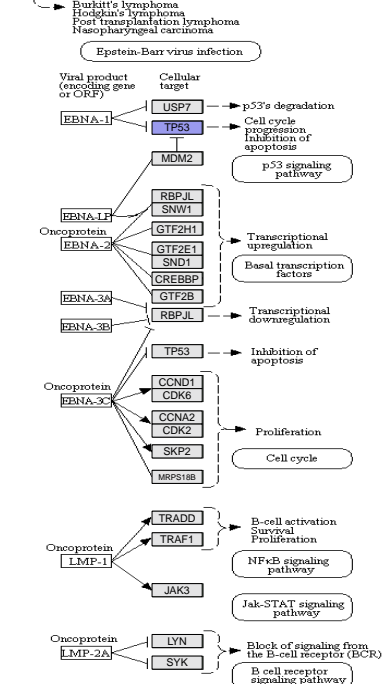
**Hepatitis B virus (HBV)**



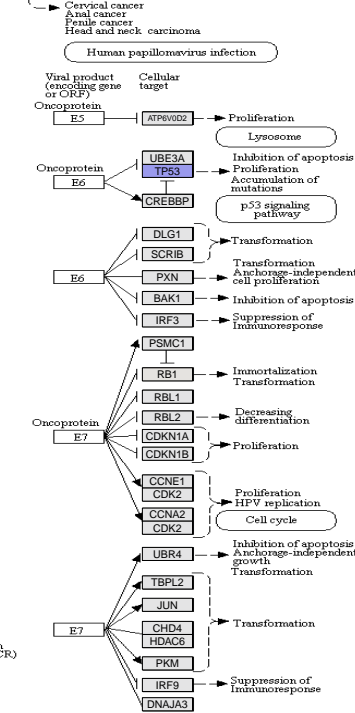
**Hepatitis C virus (HCV)**



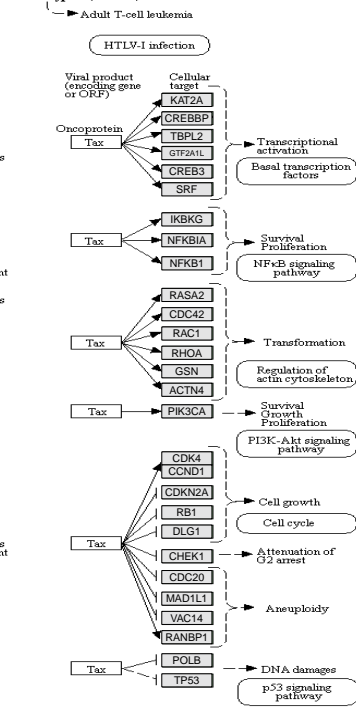
**Epstein-Barr virus (EBV)**



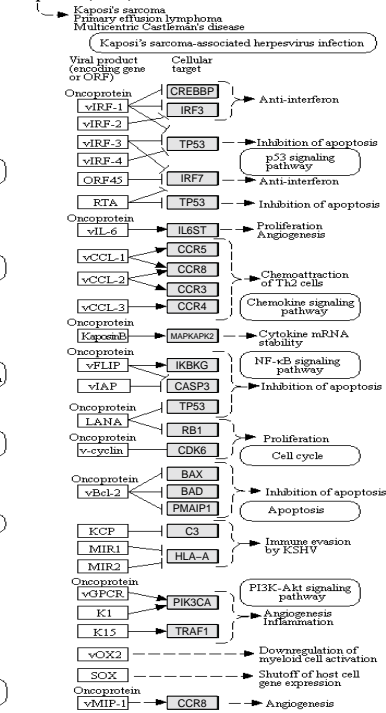
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**

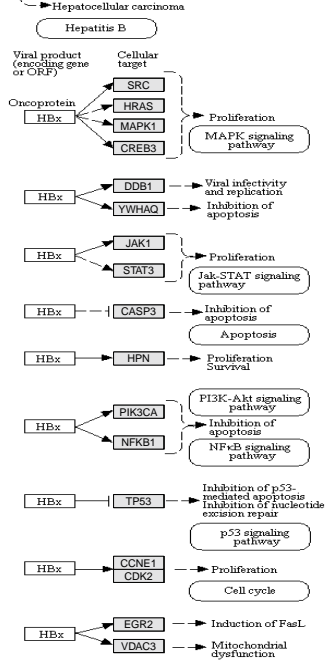


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

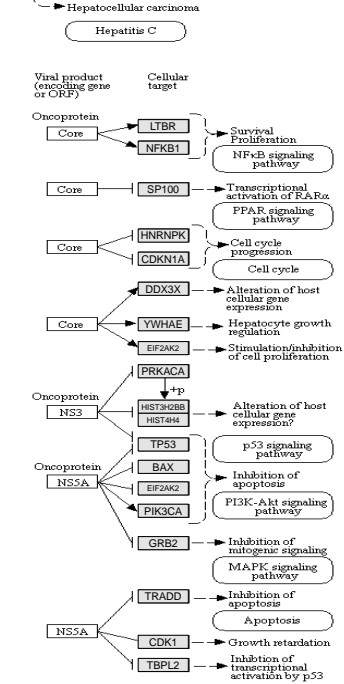


**Virul carcinogenesis group 3**

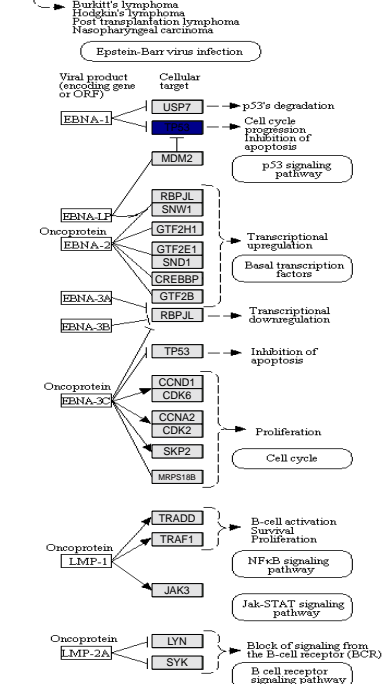
**Hepatitis B virus (HBV)**



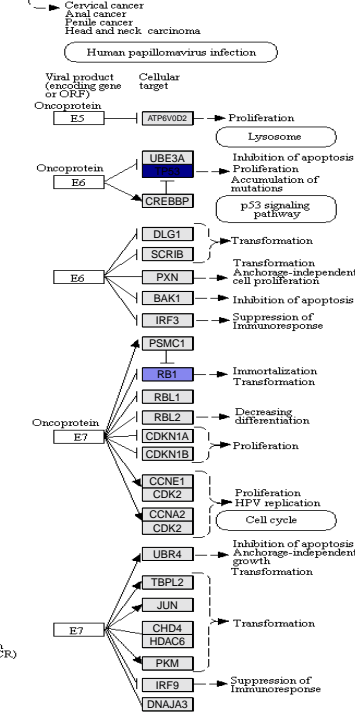
**Hepatitis C virus (HCV)**



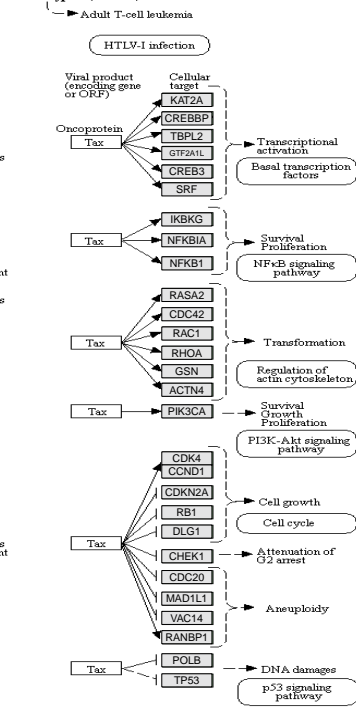
**Epstein-Barr virus (EBV)**



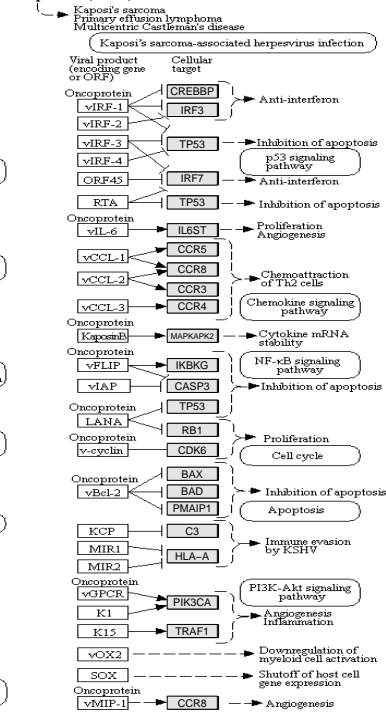
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**



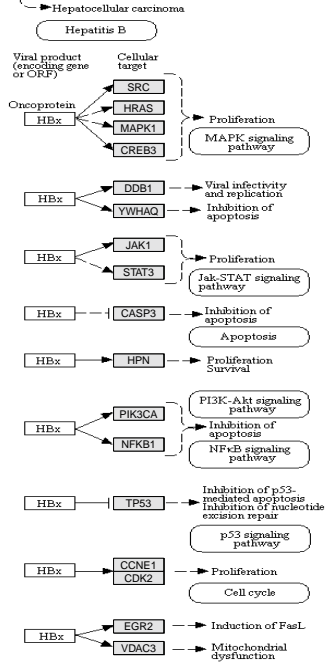
**Kaposi's sarcoma-associated herpesvirus (KSHV)**



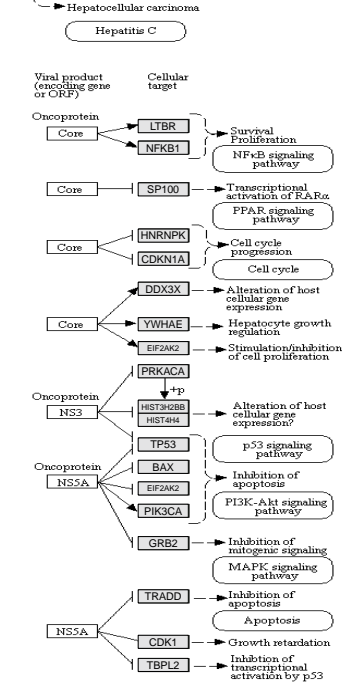


**Virul carcinogenesis group 4**

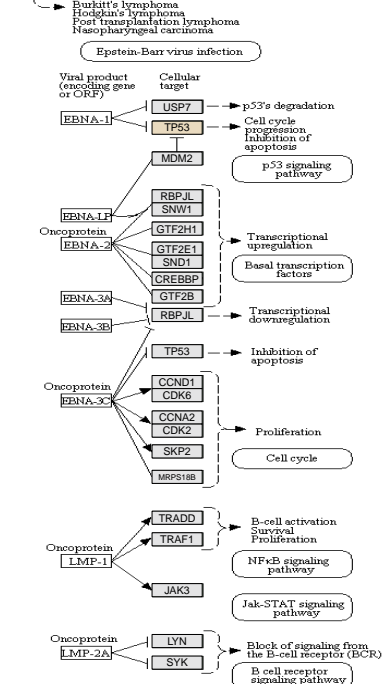
**Hepatitis B virus (HBV)**



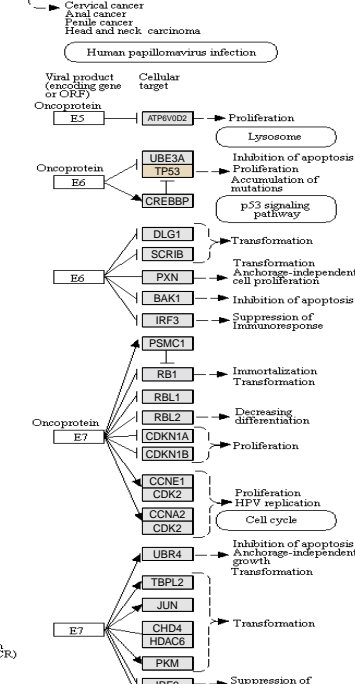
**Hepatitis C virus (HCV)**



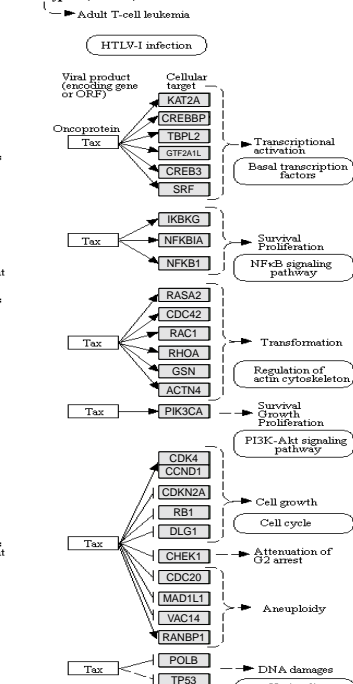
**Epstein-Barr virus (EBV)**



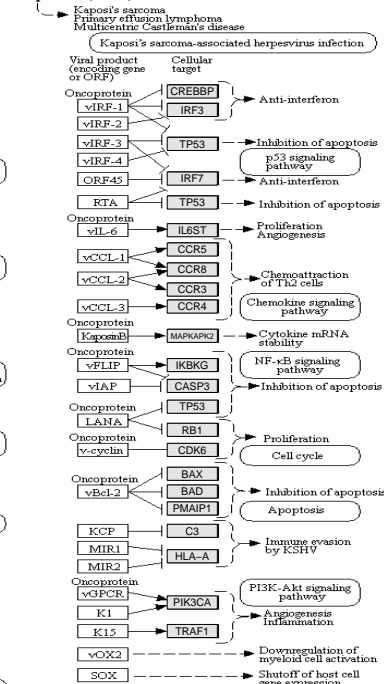
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**



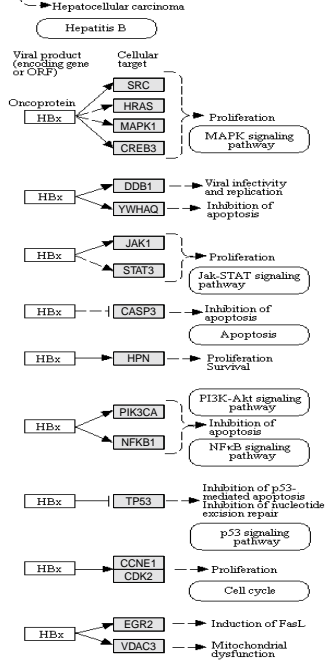
**Kaposi's sarcoma-associated herpesvirus (KSHV)**



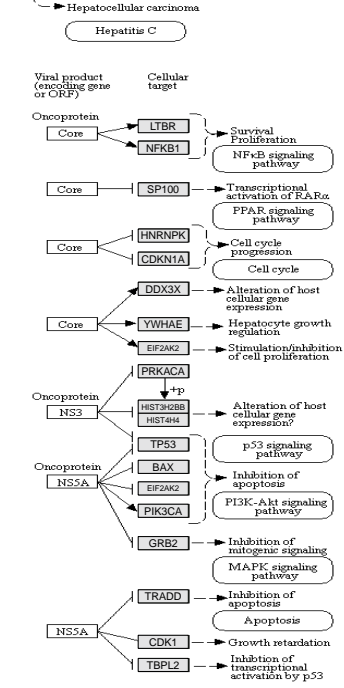


**Virul carcinogenesis group 6**

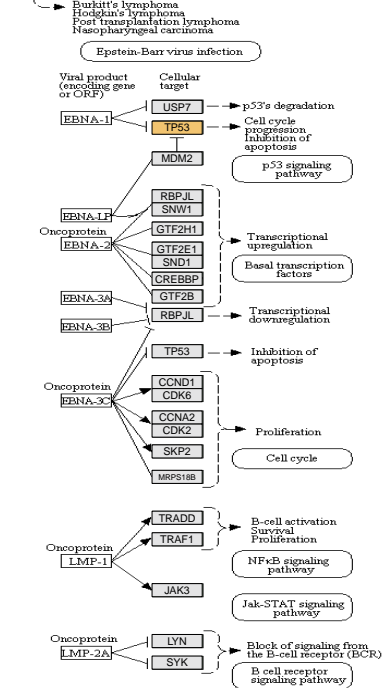
**Hepatitis B virus (HBV)**



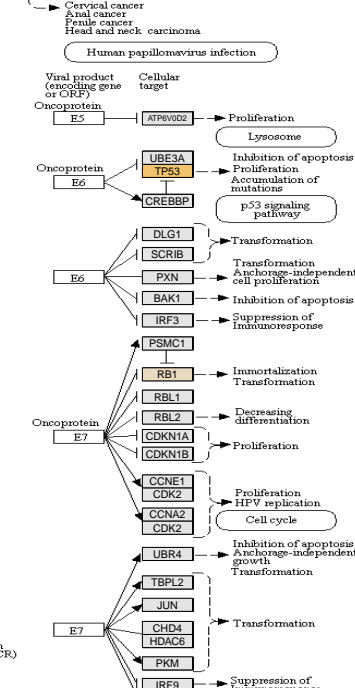
**Hepatitis C virus (HCV)**



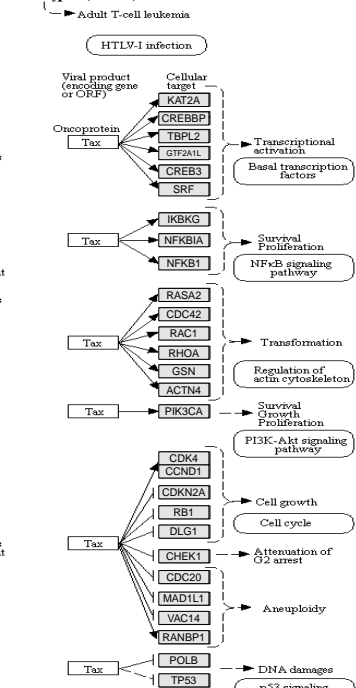
**Epstein-Barr virus (EBV)**



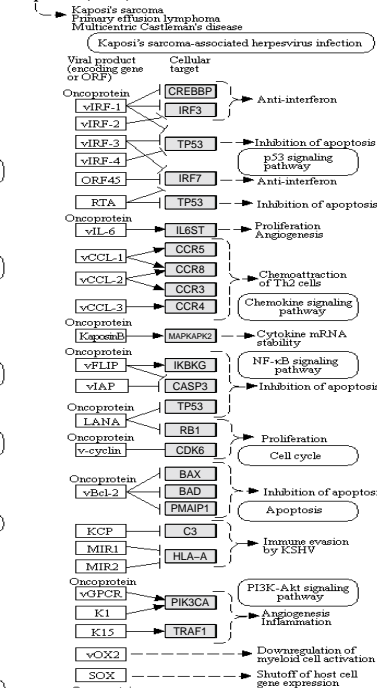
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**

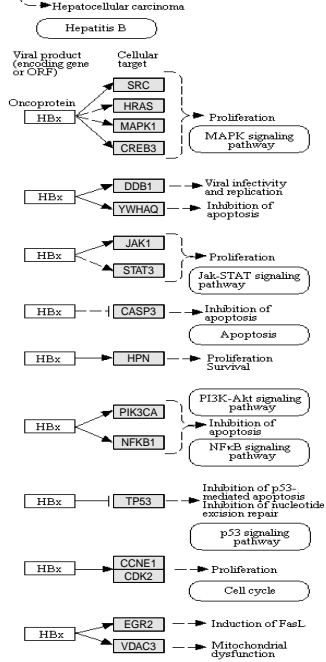


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

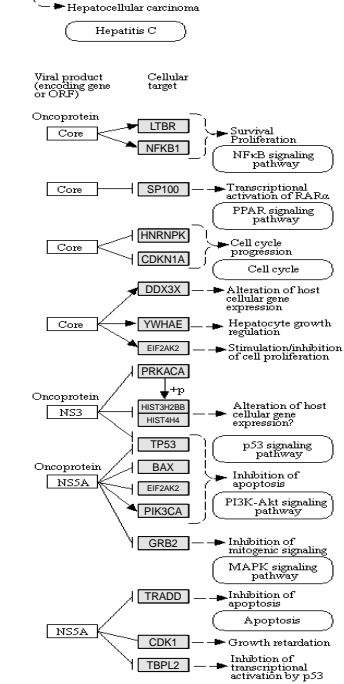


**Virul carcinogenesis group 6**

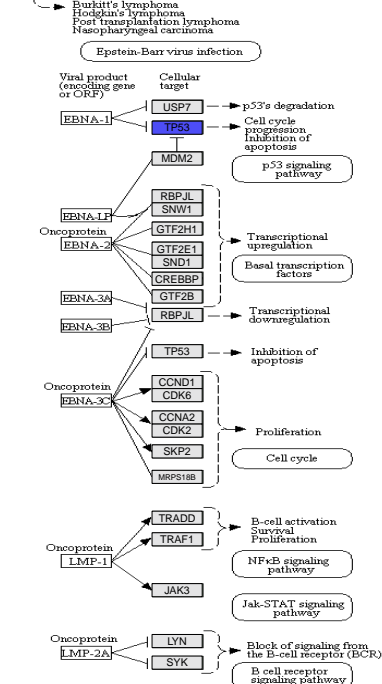
**Hepatitis B virus (HBV)**



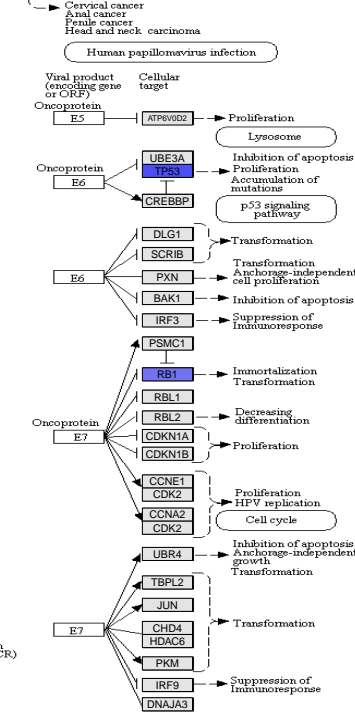
**Hepatitis C virus (HCV)**



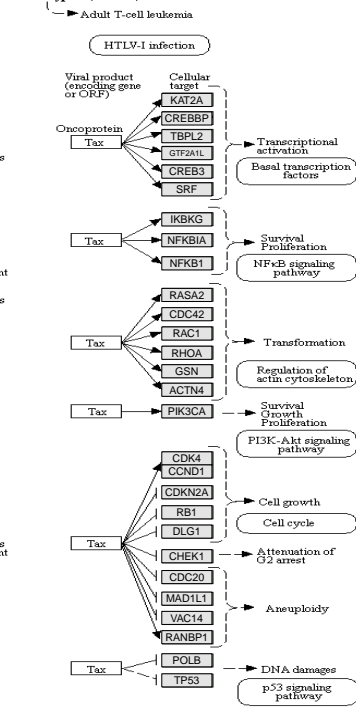
**Epstein-Barr virus (EBV)**



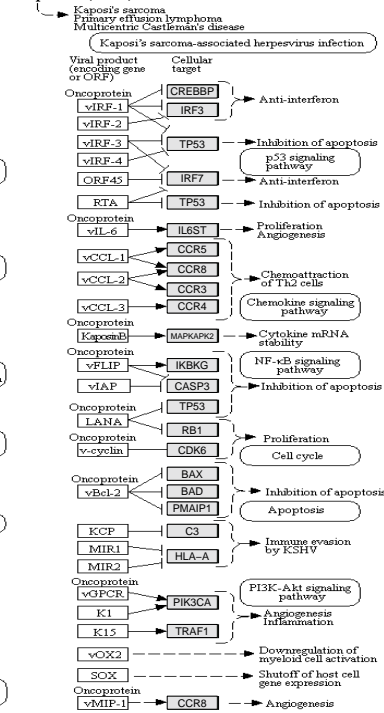
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**

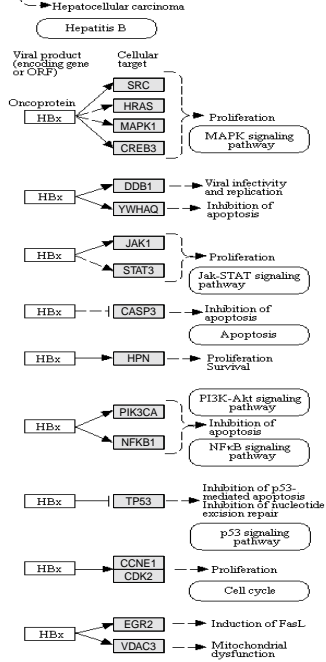


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

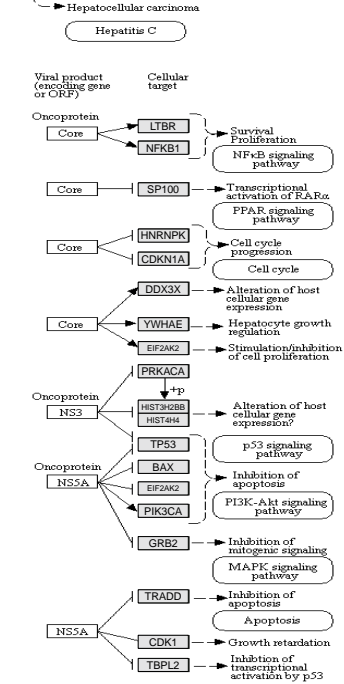


**Virul carcinogenesis group 7**

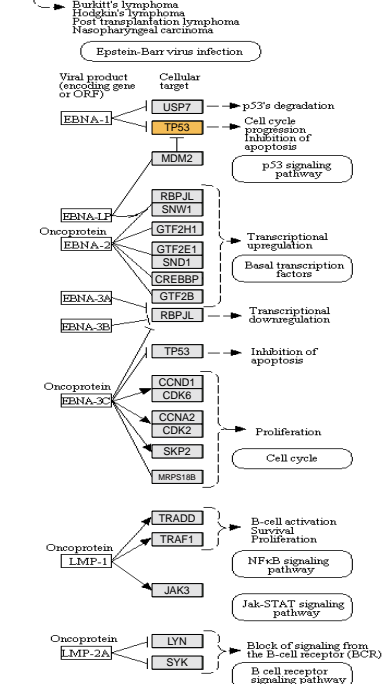
**Hepatitis B virus (HBV)**



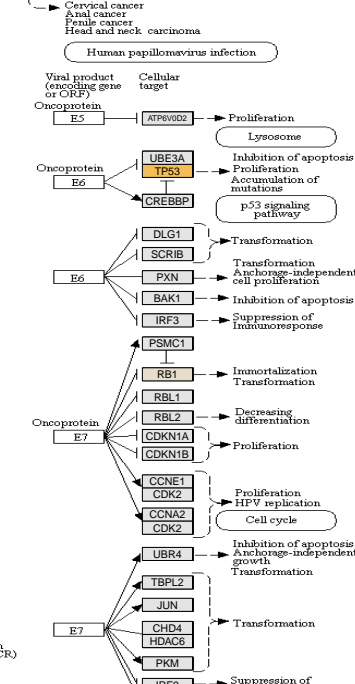
**Hepatitis C virus (HCV)**



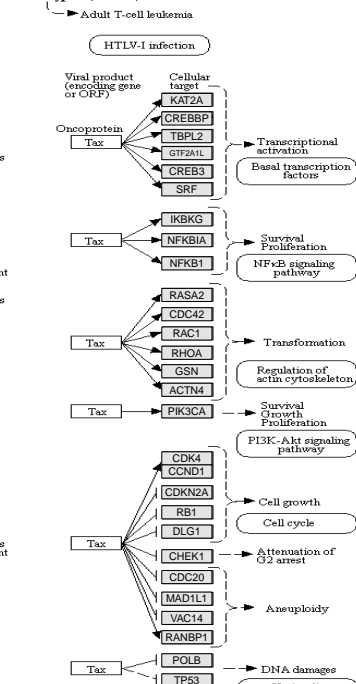
**Epstein-Barr virus (EBV)**



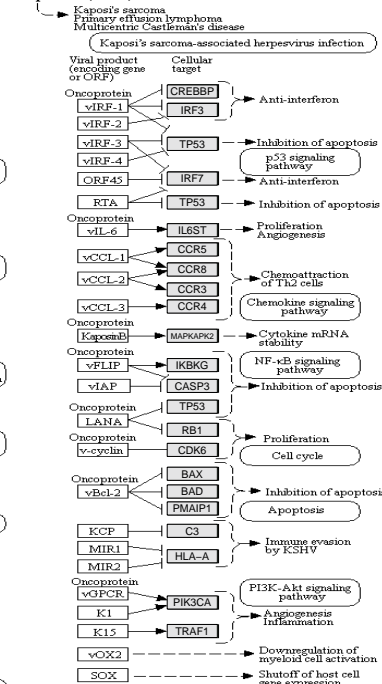
**Human papillomavirus (HPV)**



**Human T lymphotropic virus type 1 (HTLV-1)**

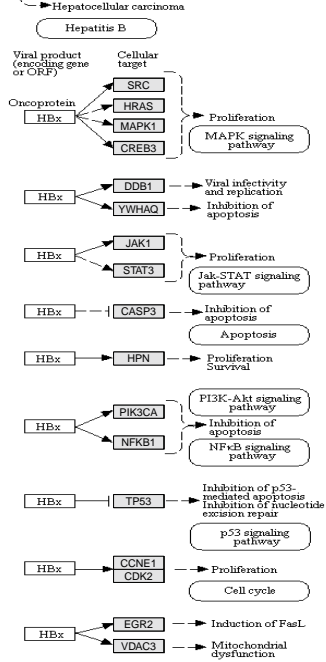


**Kaposi's sarcoma-associated herpesvirus (KSHV)**

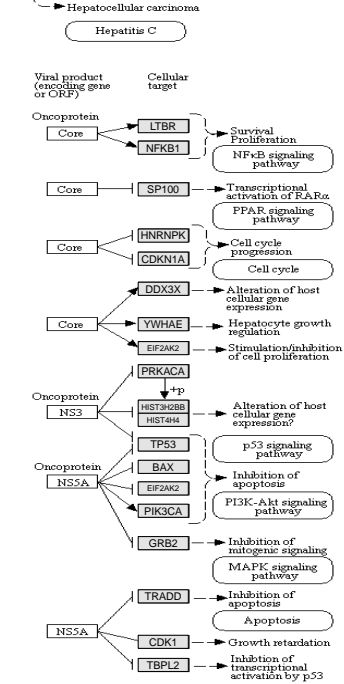


**Virul carcinogenesis group 8**

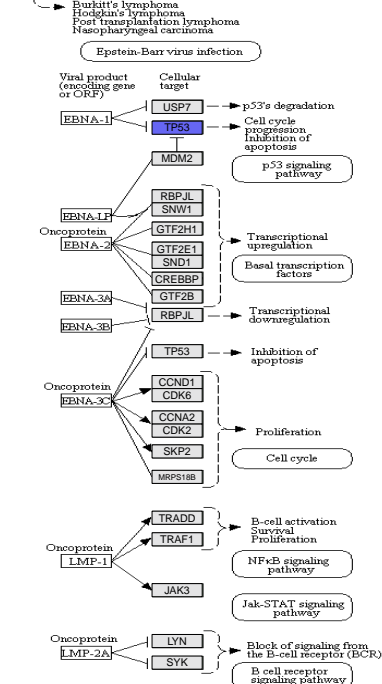
**Hepatitis B virus (HBV)**



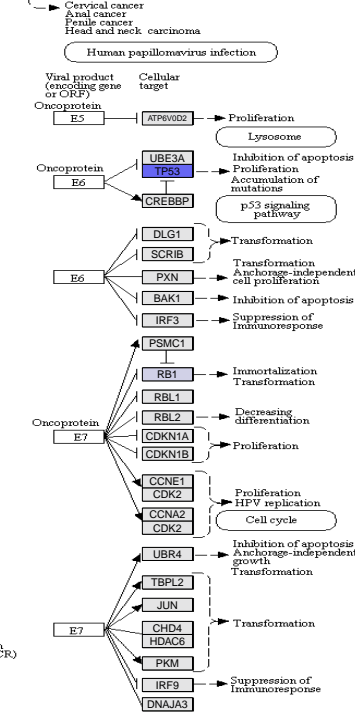
**Hepatitis C virus (HCV)**



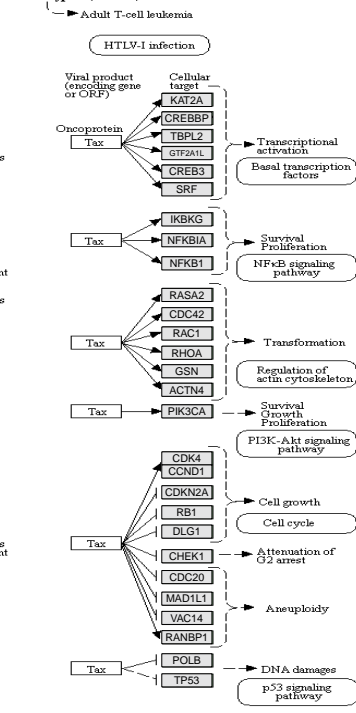
**Epstein-Barr virus (EBV)**



**Human papillomavirus (HPV)**



**Human T lymphotropic virus type I (HTLV-I)**



**Kaposi's sarcoma-associated herpesvirus (KSHV)**

