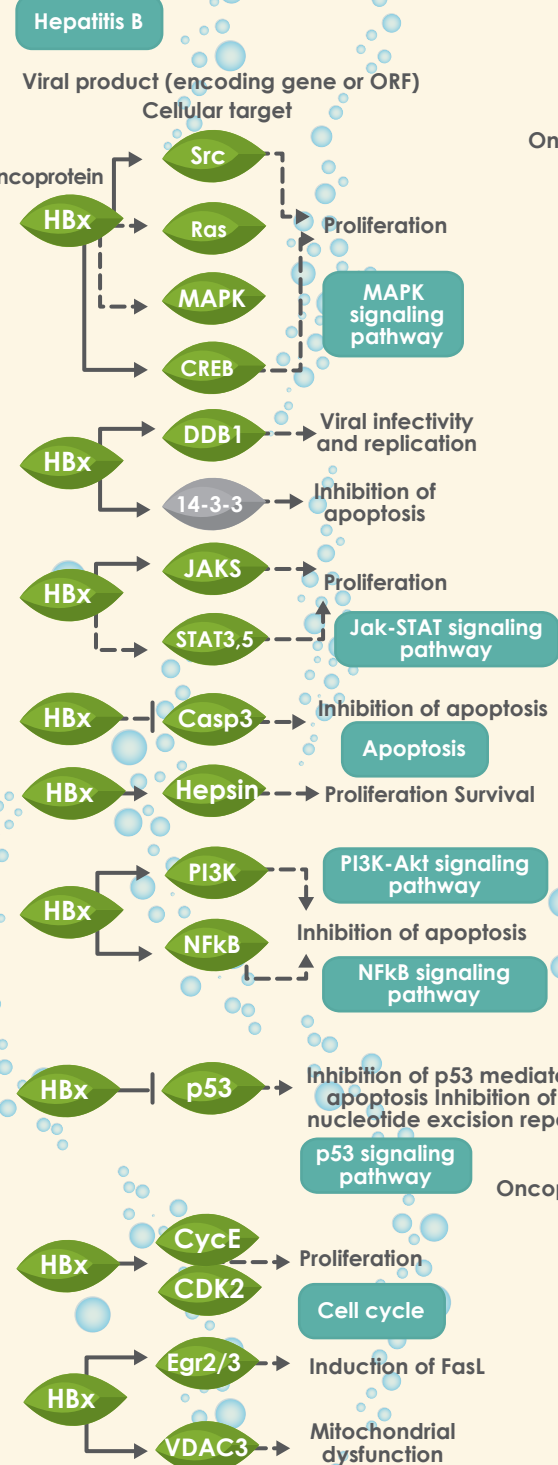


# VIRAL CARCINOGENESIS PATHWAY

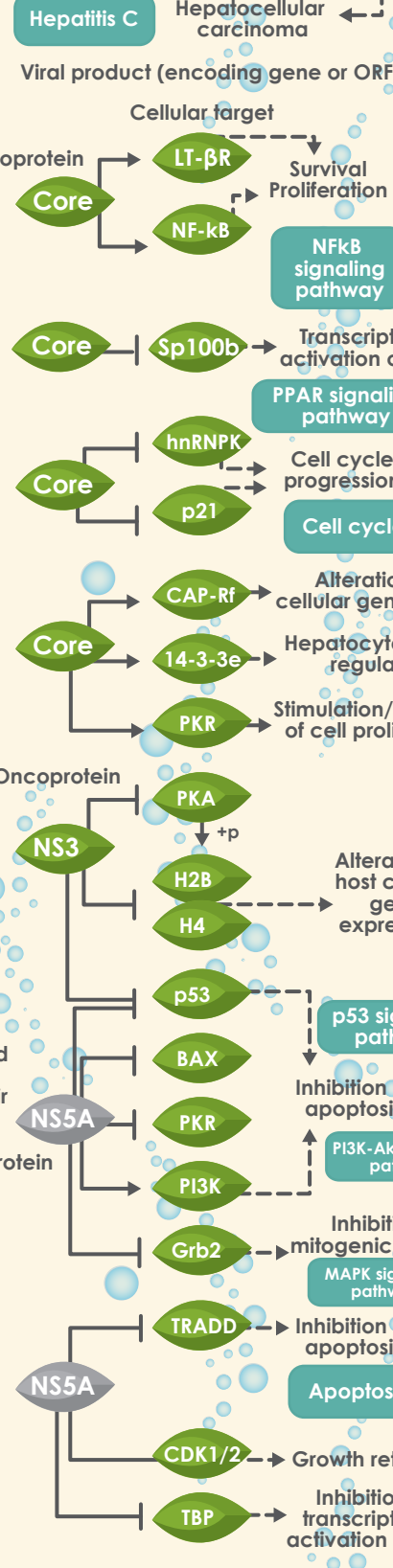
## Hepatitis B virus (HBV)

Hepatocellular carcinoma



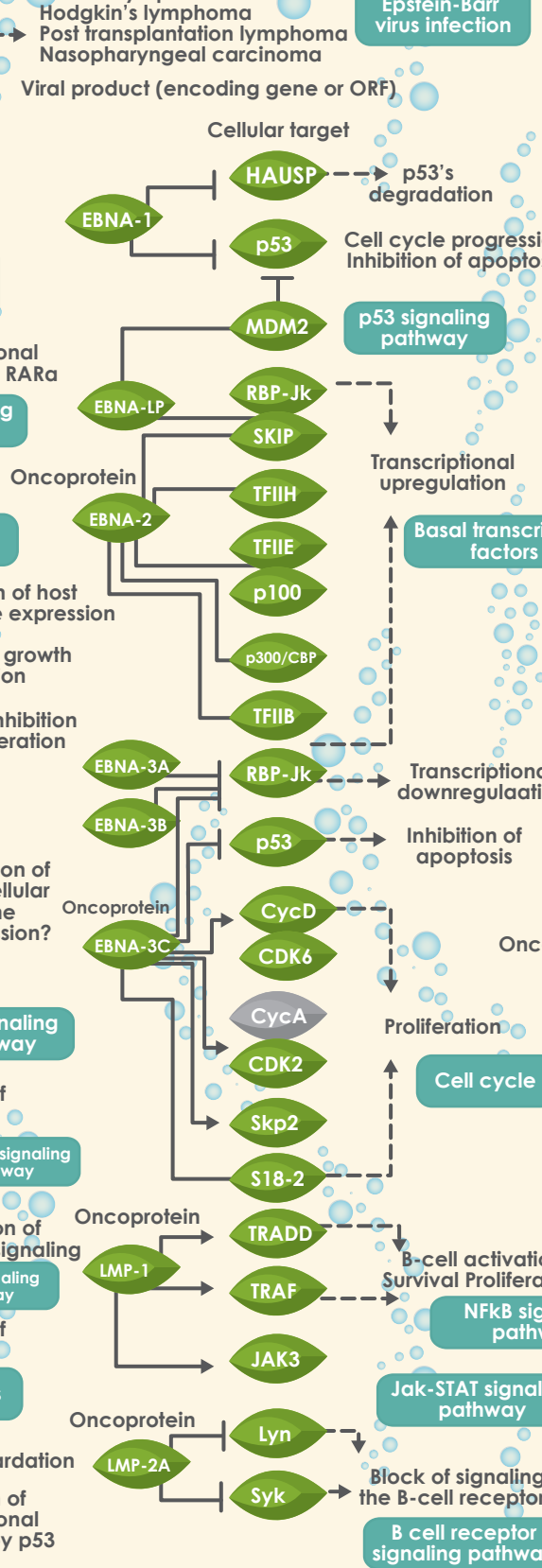
## Hepatitis C virus (HCV)

Hepatocellular carcinoma



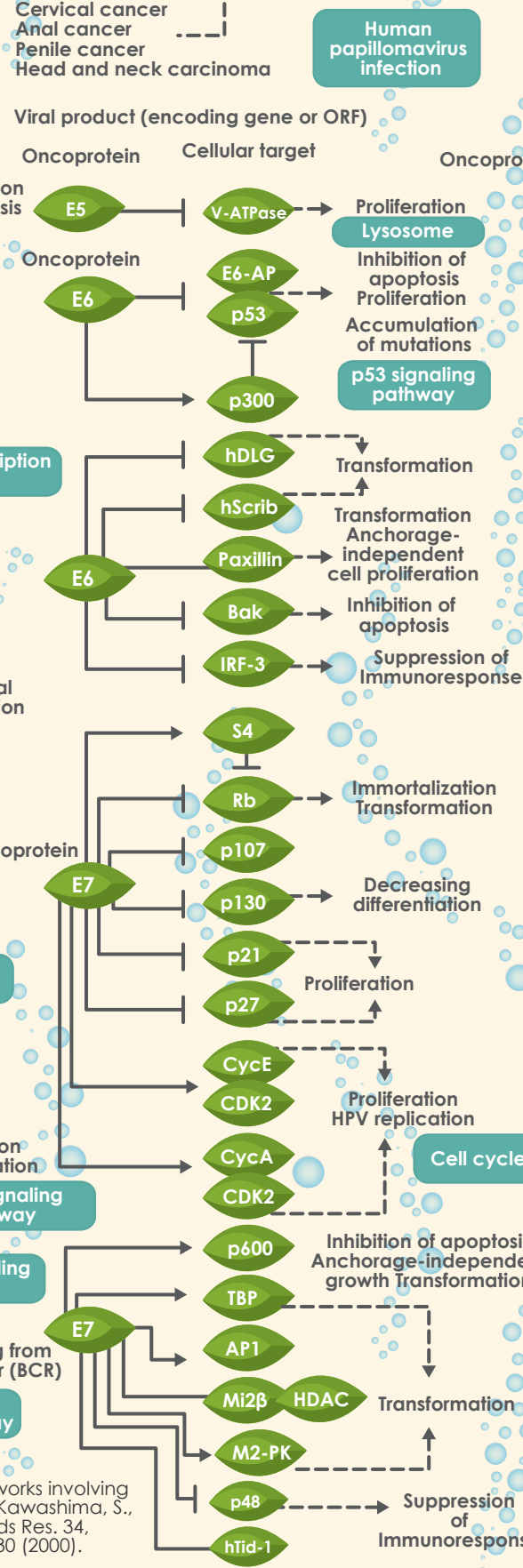
## Epstein-Barr virus (EBV)

Burkitt's lymphoma, Hodgkin's lymphoma, Post transplantation lymphoma, Nasopharyngeal carcinoma



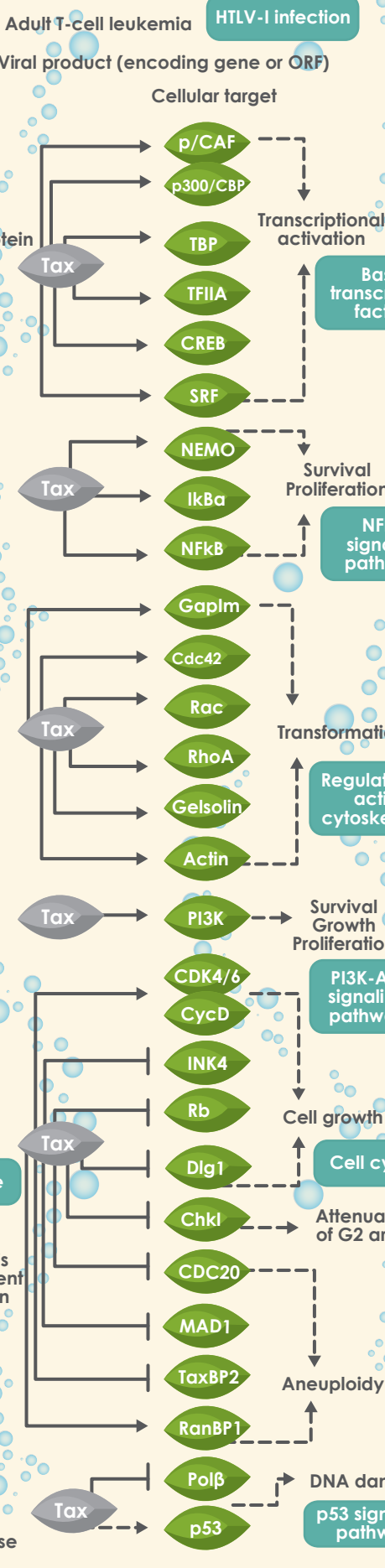
## Human papillomavirus (HPV)

Cervical cancer, Anal cancer, Penile cancer, Head and neck carcinoma



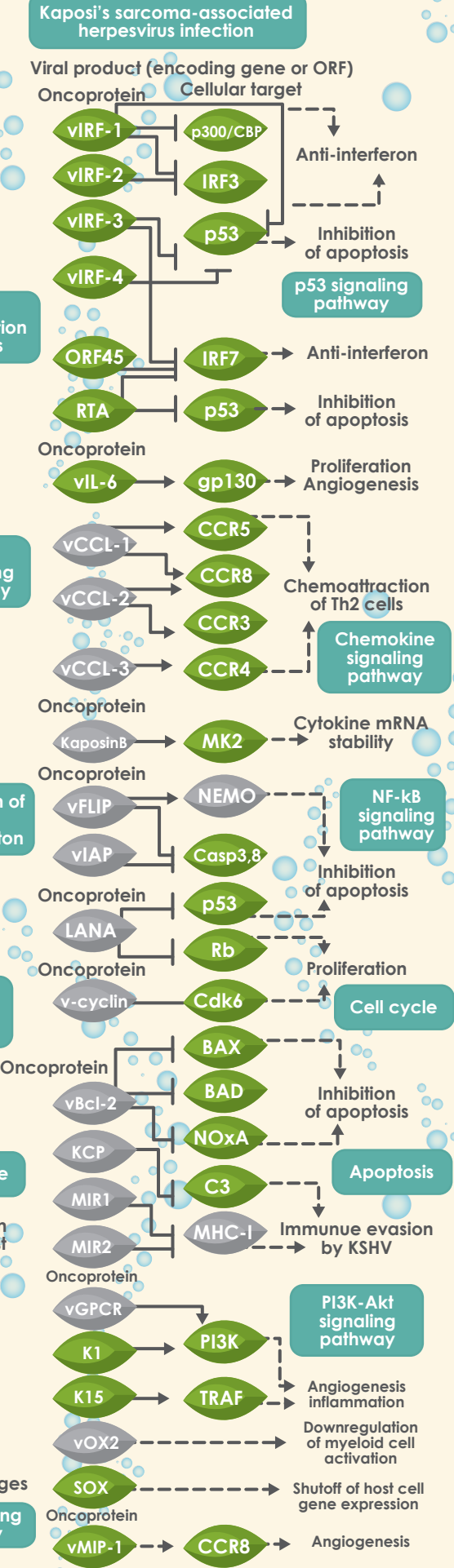
## Human T lymphotropic virus type (HTLV-I)

Adult T-cell leukemia



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

Kaposi's sarcoma, Primary effusion lymphoma, Multicentric Castlemans disease



Aviva Product  
Not a Aviva Product  
Another molecule, mostly chemical compound  
Indirect effect  
Inhibition  
Dissociation  
Phosphorylation  
Dephosphorylation

Pathway diagram below is compiled from data from the Kyoto Encyclopedia of Genes and Genomes Kanehisa, M., Goto, S., Furumichi, M., Tanabe, M., and Hirakawa, M.; KEGG for representation and analysis of molecular networks involving diseases and drugs. Nucleic Acids Res. 38, D355-D360 (2010). Kanehisa, M., Goto, S., Hattori, M., Aoki-Kinoshita, K.F., Itoh, M., Kawashima, S., Katayama, T., Araki, M., and Hirakawa, M.; From genomics to chemical genomics: new developments in KEGG. Nucleic Acids Res. 34, D354-357 (2006). Kanehisa, M. and Goto, S.; KEGG: Kyoto Encyclopedia of Genes and Genomes. Nucleic Acids Res. 28, 27-30 (2000).