Molecular mechanisms in activation of Latent HIV-1

1- Components of BAF complex are a putative therapeutic targets to deplete the latent reservoir in HIV infected patients (This thesis).

2- Targeting the Wnt pathway by small molecules and Wnt agonists is an attractive strategy in the HIV combinatorial therapy (This thesis).

3- Functional synergism between Wnt activators and HDAC inhibitors results in activation of the latent HIV (This thesis).

4- Mechanistic evidence does exist behind the functional specialization observed for TCF1 and LEF1 (This thesis).

5- In B cells HDAC7 is a key transcriptional repressor (This thesis).

6- Chromatin remodeling complexes have well-established roles in a wide range of chromosomal processes, including transcriptional regulation and chromatin assembly. (Wang, Curr Top Microbiol Immunol., 2003, 274:143-69)

7- The combined action of transcription factors located on the HIV- long terminal repeat, in concert with the viral transregulatory protein, TAT determines the degree of viral expression at the transcriptional level. (Verdin, et al., Proc. Natl. Acad. Sci. USA 1990, 87:4874-4878)

8- Reactivation of latent HIV-1 gene expression is a promising strategy for the depletion of latent viral reservoirs. (Chunn and Fauci, Proc Natl Acad Sci USA. 1999; 96(20): 10958–10961)

9- “The first step toward success will be the biggest one.” (Dennis Waitley)

10- “The more you learn, the more you realize how little you know.” (Socrates)

11- “Life is a balance of holding on and letting go.” (Rumi)

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