

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*)