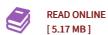




# Molecular Modelling and Simulation of Retroviral Proteins and Nanobiocomposites

By Sergey Shityakov

GRIN Verlag. Paperback. Condition: New. 116 pages. Dimensions: 8.3in. x 5.8in. x 0.3in. Doctoral Thesis Dissertation from the year 2011 in the subject Biology - Micro- and Molecular Biology, grade: 1 (magna cum laude), University of Wrzburg (Theodor-Boveri-Insitut fr Biowissenschaften), course: computer science, virology, biophysics, language: English, abstract: HIV-1 integrase has nuclear localization signals (NLS) which play a crucial role in nuclear import of viral preintegration complex (PIC). However, the detailed mechanisms of PIC formation and its nuclear transport are not known. Investigated the interaction of this viral protein HIV-1 integrase with proteins of the nuclear pore complex such as transportin-SR2 (Shityakov et al., 2010). I showed that the transportin-SR2 in nuclear import is required due to its interaction with the HIV-1 integrase. I analyzed key domain interaction, and hydrogen bond formation in transportin-SR2. In this thesis, I compared the transduction frequencies of PPT modified FV vectors with lentiviral vectors in nondividing and dividing alveolar basal epithelial cells from human adenocarcinoma (A549) by using molecular cloning, transfection and transduction techniques and several other methods. In contrast to lentiviral vectors, FV vectors were not able to efficiently transduce nondividing cell (Shityakov and Rethwilm, unpublished data). Despite the findings, which support...



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