# Molecular Modelling and Simulation of Retroviral Proteins and Nanobiocomposites



Filesize: 5.03 MB

# Reviews

This book is fantastic. It really is packed with wisdom and knowledge I am pleased to explain how this is the greatest ebook i actually have go through in my personal daily life and can be he greatest ebook for at any time.

(Mr. Zachariah O'Hara)

# MOLECULAR MODELLING AND SIMULATION OF RETROVIRAL PROTEINS AND NANOBIOCOMPOSITES



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. I 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to lentiviral vectors, FV vectors were not able to efficiently transduce nondividing cell (Shityakov and Rethwilm, unpublished data).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 the use of FV vectors as a safe and efficient alternative to lentiviral vectors, major limitation in terms of foamy-based retroviral vector gene transfer in quiescent cells still remains. In computational drug design I used molecular modelling methods such as lead expansion algorithm (Tripos) to create a virtual library of compounds with different binding affinities to protease binding site. Further computational analyses revealed one unique compound with different protease binding ability from the initial hit and its role for possible new class of protease inhibitors is discussed (Shityakov and Dandekar, 2009



Read Molecular Modelling and Simulation of Retroviral Proteins and Nanobiocomposites Online Download PDF Molecular Modelling and Simulation of Retroviral Proteins and Nanobiocomposites

## **Related PDFs**



Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Save eBook »



Children's Educational Book Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

 $\label{lem:condition:New.248x170mm.Language:English.Brand New Book***** Print on Demand*****. ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...$ 

Save eBook »



#### Welcome to Bordertown: New Stories and Poems of the Borderlands

BRILLIANCE AUDIO, United States, 2015. CD-Audio. Book Condition: New. Unabridged. 170 x 135 mm. Language: English. Brand New. Audie Award Finalist: Best Short Story Collection Bordertown: a city on the Border between the human...

Save eBook »



## Phonics Fun Stick Kids Workbook, Grade 1 Stick Kids Workbooks

Creative Teaching Press. Paperback. Book Condition: New. Paperback. 56 pages. Dimensions: 8.8in. x 6.4in. x 0.3in. Learning to read is a fun and exciting time in a childs life, and being able to decode words is...

Save eBook »



The Pursued: Is That Drum Beats? Lamar Stein Heard Beats Warning of an Evil Set Loose on Piedmont! This Is the Root Hard or Die Story of the Life and Times of My Father and Mother. My Sister and Me, Bystanders on Appalachian Mountains Hillsides. (Paperbac

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Euphoria broke out in the hitching alley by the time my father reached...

Save eBook »



My Life as an Experiment: One Man's Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests

SIMON SCHUSTER, United States, 2010. Paperback. Book Condition: New. Reprint. 212 x 138 mm. Language: English. Brand New Book. One man. Ten extraordinary quests. Bestselling author and human guinea pig A. J. Jacobs puts

Save Document »



Studyguide for Introduction to Early Childhood Education: Preschool Through Primary Grades by Jo Ann Brewer ISBN: 9780205491452

2011. Softcover. Book Condition: New. 6th. 8.25 x 11 in. Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights,

Save Document »



#### Now and Then: From Coney Island to Here

Alfred A. Knopf. Hardcover. Book Condition: New. 0375400621 Never Read-12+ year old Hardcover book with dust jacket-may have light shelf or handling wear-has a price sticker or price written inside front or back cover-publishers mark-Good

Save Document »



California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English. Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies

Save Document »



#### THE Key to My Children Series: Evan s Eyebrows Say Yes

AUTHORHOUSE, United States, 2006. Paperback. Book Condition: New. 274 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. THE KEY TO MY CHILDREN SERIES: EVAN S EYEBROWS SAY YES is about

Save Document »