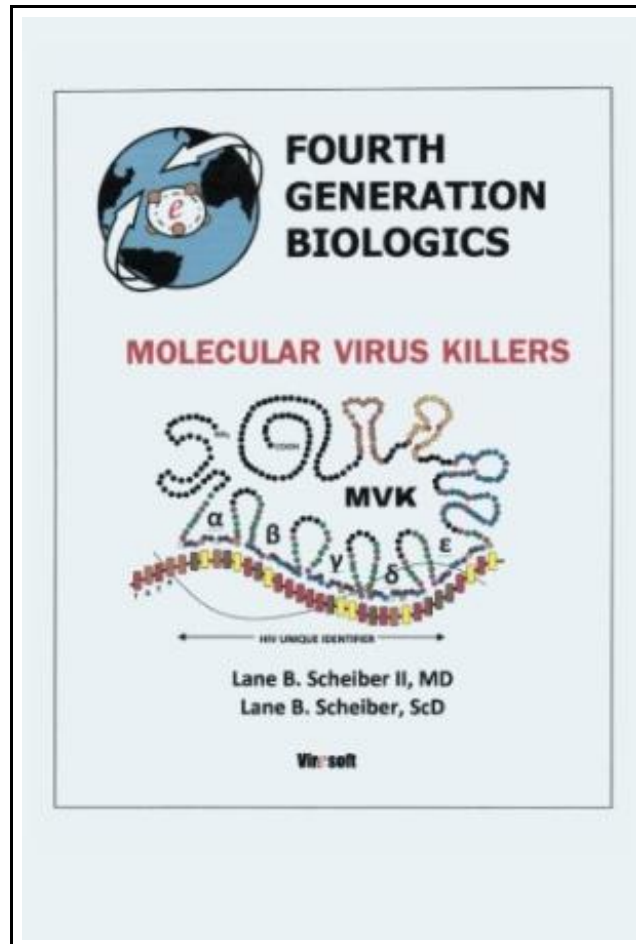


Fourth Generation Biologics: Molecular Virus Killers (Paperback)



Filesize: 2.07 MB

Reviews

It is an awesome book that we have possibly go through. It is actually writter in straightforward words and phrases and not confusing. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Tierra Kunde)

FOURTH GENERATION BIOLOGICS: MOLECULAR VIRUS KILLERS (PAPERBACK)



iUniverse, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The world is under constant threat of a virus evolving into a global plague.To this point, there is no direct defense against a widespread viral infection. Fourth Generation Biologics: Molecular Virus Killers offers an innovative, new strategy to combat deadly viral infections. Presented is the discovery of unique identifiers for the viral scourges: HIV, Herpes Simplex, the Shingles virus, the Smallpox virus and the newly emerging threats of Ebola virus and the Chikungunya virus. Analysis of the transcription and translation mechanisms utilized by cells leads to exploring the function of nuclear signaling proteins as intracellular hunter-killer molecules aimed specifically at viral genomes. Utilizing amino acid-to-nucleotide binding characteristics, taking into account Watson-Crick binding, Hoogsteen groove binding, and Vander Waals forces, modifications to existing transcription factors binding sites is undertaken. Transcription factors are altered to specifically target the unique identifier of pathogenic viruses. Binding a transcription factor directly to a viral genome is intended to silence the genome, preventing transcription if embedded in the DNA or interfering with translation if the genome is present in a cell's cytoplasm as RNA. This emerging technology is then extrapolated to explore activating therapeutic nuclear genes to treat challenging medical conditions including diabetes and osteoarthritis.



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