



Regulation of Gene Expression in Animal Viruses (Paperback)

By -

Springer-Verlag New York Inc., United States, 2012. Paperback. Book Condition: New. 244 x 170 mm. Language: English . Brand New Book. Viruses, being obligatory parasites of their host cells, rely on a vast supply of cellular components for their replication, regardless of whether infection leads to cell death or to the state of persistence. Animal viruses are providing scientists with relatively simple models to study the molecular biology of genome replication and gene expression. Whereas viruses use, in general, pathways of macromolecular biosynthesis common to the host cell, they have a cunning ability to adopt unusual mechanisms of gene expression and gene replication, provided these special pathways offer an advantage in competition for cellular resources. Any study of viral gene expression and replication is likely to lead also to new insights in cellular metabolism. The discoveries of cis-acting regulatory elements in transcription, the phenomenon of splicing of pre- mRNA, and cap-dependent and cap-independent initiation of translation may be cited as examples. In addition, animal virus genomes contain elements and encode proteins that are very useful for the design of vectors for gene cloning and expression in mammalian cells. Apart from the basic interest in their biology, viruses have gained notoriety,...



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