



Viral Molecular Machines [

Rossmann, Michael G,

ed. lit

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ed. lit

Springer New York,

2012

Medical virology

Microbiology

Emerging infectious diseases

Immunology

Virology

Microbiology

Infectious Diseases

Immunology

Monografía

A biological organism can be viewed as a collection of molecular machines well integrated to function as a self-replicating unit. One of the principal goals in biology is to be able to fully understand the mechanisms of an organism in atomic detail. Viruses offer the best opportunities to achieve this goal. Written by leaders in the respective fields, this book examines a variety of viral molecular machines, using the best examples from bacteriophages and animal viruses, many causing infectious diseases of public health importance. Beginning with the viral entry into a host cell, the book takes the reader through replication of the genome, assembly of structural components, genome packaging and maturation into an infectious virion. The book conveys the state of the art knowledge of the topic generated by combining X-ray crystallography, high resolution electron microscopy, molecular genetics, biochemistry, and single molecule biophysics. Viral Molecular Machines is not only a "must-have" book for virologists but it will also be broadly useful for molecular biologists in academia and industry as well as an educational tool for teaching graduate and upper level undergraduate students

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Título: Viral Molecular Machines [Recurso electrónico] edited by Michael G. Rossmann, Venigalla B. Rao

Editorial: Boston, MA Springer New York 2012

Editorial: Boston, MA Springer New York 2012

Descripción física: XIV, 687 p. 221 il., 192 il. col

Mención de serie: Advances in Experimental Medicine and Biology 726

Nota general: Description based upon print version of record

Bibliografía: Includes bibliographical references and index

Contenido: Viruses: Sophisticated Biological Machines -- F1-ATPase: A Prototypical Molecular Motor -- Reconstructing Virus Structures From Nanometer To Near-Atomic Resolutions With Cryo-Electron Microscopy And Tomography -- Principles Of Virus Structural Organization -- Viral Entry Machines -- Genome Replication Machines -- Capsid Assembly And Maturation -- Genome Packaging Machines

Audiencia: Recomendada

Lengua: English

ISBN: 9781461409809 9781461409793 9781461409816 9781493950850

Materia: Medical virology Microbiology Emerging infectious diseases Immunology Virology Microbiology Infectious Diseases Immunology

Autores: Rossmann, Michael G, ed. lit Rao, Venigalla B, ed. lit

Enlace a serie principal: Advances in Experimental Medicine and Biology (CKB)954927588283 (DLC) sf77000246 2214-8019

Enlace a formato físico adicional: 1-4614-0979-9

Punto acceso adicional serie-Título: Advances in Experimental Medicine and Biology 726

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