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Nota di contenuto	Viral bioterrorism and antiviral countermeasures / M. Bray -- Research on emerging and bioterror threats / C. Tseng -- Antiviral drug targets and strategies for emerging viral diseases and bioterrorism threats / E. de Clercq -- Perspectives for the therapy against arenavirus infections / E.B. Damonte, C.C. Garcia -- S-adenosylhomocysteine hydrolase inhibitors as a source of anti-filovirus agents / S.W. Schneller, M. Yang -- Antiviral strategies for Ebola virus / R.N. Harty and J. M. Licata -- IMPDH inhibitors : discovery of antiviral agents against emerging diseases / V. Nair -- Lethal mutagenesis : exploiting error-prone replication of riboviruses for -- Antiviral therapy / J.D. Graci, C.E. Cameron -- Structural biology of flaviviral replications and opportunities for drug design / K. Murthy -- Confronting new and old antiviral threats : broad spectrum potential of prenylation inhibitors / M. Elazar, J.S. Glenn -- The discovery and development of new antivirals for smallpox / E.R.

Kern -- Prevention of viral infection by immunocamouflage of target tissues / L. McCoy, M.D. Scott -- Viral evasion of the interferon system : novel targets for drug discovery / L. Powell, P.F. Torrence -- The emergence of pandemic influenza : bioterrorist vs. mother nature / J. S. Oxford, A. Catchpole, R. Lambkin -- Novel approach to smallpox (variola) inhibitors / A. Rich, B. Jacobs -- Structure-based design of anti-SARS drug / R. Hilgenfeld.

Sommario/riassunto

Antiviral Drug Discovery gives readers a cutting-edge view of how chemical concepts are being mobilized to develop novel approaches that will effectively confront emerging diseases and biowarfare. Among the many topics discussed are smallpox, the Ebola virus, influenza, SARS, arenaviruses and flaviviruses. Each chapter discusses hypothetical strategies for the discovery of relevant antiviral agents, recent findings related to biochemistry or drug discovery, and advances in the further development of established leads in the area. Timely and informative, this book clearly delineates the efforts being made to develop new and effective broad-spectrum antiviral agents.
