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Titolo	New challenges to health : the threat of virus infection // edited by G.L. Smith [and three others] [[electronic resource]]
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Descrizione fisica	1 online resource (ix, 347 pages) : digital, PDF file(s)
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Nota di contenuto	Viruses in our past, the viruses in our future / C.J. Peters -- Dynamics and epidemiological impact of microparasites / B.T. Grenfell -- Continuing threat of bunyaviruses and hantaviruses / R.M. Elliott -- Cilicivirus, myxoma virus and the wild rabbit in Australia / B.J. Richardson -- Potential of influenza A viruses to cause pandemics / A.J. Hays -- Hepatitis viruses as emerging agents of infectious diseases / S. M. Lemon -- Emergence of human immunodeficiency viruses and AIDS / R.A. Weiss and H.A. Weiss -- Morbilliviruses / T. Barrett -- Structure-function analysis of prion protein / C. Weissmann [and others] -- Endogenous retroviruses and xenotransplantation / J.P. Stoye -- Gammaherpesviral infections and neoplasia in immunocompromised populations / C. Bosoff -- Structure and function of the proteins of

Marburg and Ebola viruses / H.-D. Klenk [and others] -- Epidemic dengue/dengue haemorrhagic fever as a public health problem in the 21st century / D.J. Gubler -- Borna disease virus, a threat for human mental health? / L. Bode and H. Ludwig.

Sommario/riassunto

Viruses continually evolve and adapt, posing new threats to health. This book discusses the ecology of viruses with particular emphasis on the emergence of devastating haemorrhagic disease, and reviews the molecular and cell biological basis of the pathogenesis of several virus diseases. An introduction is given to the mathematical analysis of recurrent epidemic virus disease, such as measles. Neurological and psychological disease is discussed in relation to the pathological mechanisms that may underlie prion disease (such as new variant CJD) and to the possible virus involvement in human psychiatric illness. Virus infections that have come to prominence recently (HIV, bunyaviruses, morbilliviruses and caliciviruses) or that remain a threat (influenza and hepatitis viruses) are discussed. There are also chapters on new and potential niches for virus infections in the immunocompromised, and the problem of the emergence of antiviral drug resistance in viruses for which therapies exist.
