Molecular pathogenesis of virus infections

Virus and prion diseases remain a major public health threat, in both developed and developing countries. The worldwide HIV pandemic is but one example of a newly emerged virus disease; other potential threats come from exotic viruses such as SARS, Ebola and Hantaan viruses. Older human viruses such as influenza, papilloma, herpes and the hepatitis viruses still cause major health problems. Furthermore, as well as causing acute infections, some viruses may also establish persistent infections which can lead to the development of chronic diseases, including cancer. This symposium book covers central factors that influence the pathogenicity of virus and prion infections. Topics range from innate and adaptive immune responses and virus evasion of host defences to details of selected virus–host interactions, including those involving dengue virus, HIV, influenza viruses, coronaviruses, hepatitis C virus, herpesviruses, papillomaviruses, African swine fever virus and poxviruses.

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CONTENTS

Contributors vii

J. L. Whitton
Adaptive immune responses 1

G. Screaton and J. Mongkolsapaya
T-cell responses and dengue haemorrhagic fever 15

E. Turnbull and P. Borrow
The immune response to human immunodeficiency virus type 1 (HIV-1) 23

C. M. Dixon, L. Breakwell, G. Barry and J. K. Fazakerley
Persistent RNA virus infections 91

A. L. Hartman, J. S. Towner and S. Nichol
Pathogenesis of Ebola and Marburg viruses 109

C. Dye and S. Siddell
Molecular approaches to the pathogenesis of feline coronaviruses 125

J. C. Manson and R. M. Barron
The transmissible spongiform encephalopathies 137

R. G. Webster, A. S. Lipatov and E. Hoffmann
Influenza virus pathogenicity 159

R. P. van Rij and R. Andino
RNAi as an antiviral mechanism and therapeutic approach 179

M. L. Freeman, V. Decman and R. L. Hendricks
Neurons and host immunity conspire to maintain herpes simplex virus in a latent state 203

S. M. Lemon and K. Li
Hepatitis C virus disruption of interferon signalling pathways and evasion of innate intracellular antiviral defences 215

L. Gray, C. Jolly and C. S. Herrington
Human papillomaviruses and their effects on cell cycle control and apoptosis 235

O. Haller, F. Weber and G. Kochs
Intracellular antiviral defence mechanisms: the power of interferon-regulated restriction factors 253

M. B. Ruiz-Argüello, A. Alejo and A. Alcami
Secreted tumour necrosis factor inhibitors encoded by poxviruses 269
vi  Contents

L. K. Dixon
Evasion of host defence systems by African swine fever virus 291

J. P. Stewart, D. Hughes, L. Roaden and B. Ebrahimi
Murid herpesvirus 4 as a model for gammaherpesvirus pathogenesis 319
Index 341
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Because their pathogenesis and patho-physiology are better understood than in many virus infections, and because very striking rashes are produced, rickettsial diseases will also be considered. Some aspects of the pathogenesis of virus-induced skin lesions have already been dis-cussed in Platt's excellent short review (108). Virus route to skin--primary. Lesion. Dengue virus infection: Pathogenesis. Formulary drug information for this topic. No drug references linked in this topic. Substantial gaps remain in the comprehensive understanding of the pathogenesis of dengue virus infections. In large part, this limitation is related to the lack of a suitable animal model of disease [1]. Rhesus monkeys develop viremia similar in pattern to humans after dengue virus challenge but do not develop clinical disease. Careful epidemiologic and experimental challenge studies in humans have provided valuable information on dengue virus infection, but detailed data on virus distribution in vivo are available only from small numbers of patients with more severe disease, unusual manifesta