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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molecular pathogenesis of virus infections

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## CONTENTS

<table>
<thead>
<tr>
<th>Contributors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. L. Whitton</td>
<td>1</td>
</tr>
<tr>
<td>Adaptive immune responses</td>
<td></td>
</tr>
<tr>
<td>G. Screaton and J. Mongkolsapaya</td>
<td>15</td>
</tr>
<tr>
<td>T-cell responses and dengue haemorrhagic fever</td>
<td></td>
</tr>
<tr>
<td>E. Turnbull and P. Borrow</td>
<td>23</td>
</tr>
<tr>
<td>The immune response to human immunodeficiency virus type 1 (HIV-1)</td>
<td></td>
</tr>
<tr>
<td>C. M. Dixon, L. Breakwell, G. Barry and J. K. Fazakerley</td>
<td>91</td>
</tr>
<tr>
<td>Persistent RNA virus infections</td>
<td></td>
</tr>
<tr>
<td>A. L. Hartman, J. S. Towner and S. Nichol</td>
<td>109</td>
</tr>
<tr>
<td>Pathogenesis of Ebola and Marburg viruses</td>
<td></td>
</tr>
<tr>
<td>C. Dye and S. Siddell</td>
<td>125</td>
</tr>
<tr>
<td>Molecular approaches to the pathogenesis of feline coronaviruses</td>
<td></td>
</tr>
<tr>
<td>J. C. Manson and R. M. Barron</td>
<td>137</td>
</tr>
<tr>
<td>The transmissible spongiform encephalopathies</td>
<td></td>
</tr>
<tr>
<td>R. G. Webster, A. S. Lipatov and E. Hoffmann</td>
<td>159</td>
</tr>
<tr>
<td>Influenza virus pathogenicity</td>
<td></td>
</tr>
<tr>
<td>R. P. van Rij and R. Andino</td>
<td>179</td>
</tr>
<tr>
<td>RNAi as an antiviral mechanism and therapeutic approach</td>
<td></td>
</tr>
<tr>
<td>M. L. Freeman, V. Decman and R. L. Hendricks</td>
<td>203</td>
</tr>
<tr>
<td>Neurons and host immunity conspire to maintain herpes simplex virus in a latent state</td>
<td></td>
</tr>
<tr>
<td>S. M. Lemon and K. Li</td>
<td>215</td>
</tr>
<tr>
<td>Hepatitis C virus disruption of interferon signalling pathways and evasion of innate intracellular antiviral defences</td>
<td></td>
</tr>
<tr>
<td>L. Gray, C. Jolly and C. S. Herrington</td>
<td>235</td>
</tr>
<tr>
<td>Human papillomaviruses and their effects on cell cycle control and apoptosis</td>
<td></td>
</tr>
<tr>
<td>O. Haller, F. Weber and G. Kochs</td>
<td>253</td>
</tr>
<tr>
<td>Intracellular antiviral defence mechanisms: the power of interferon-regulated restriction factors</td>
<td></td>
</tr>
<tr>
<td>M. B. Ruiz-Argüello, A. Alejo and A. Alcami</td>
<td>269</td>
</tr>
<tr>
<td>Secreted tumour necrosis factor inhibitors encoded by poxviruses</td>
<td></td>
</tr>
</tbody>
</table>

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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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