

<b>List of contributors</b>	<b>xi</b>
<b>1 Introducing insect infection and immunity</b> <i>Jens Rolff and Stuart E. Reynolds</i>	<b>1</b>
<b>Section A Immune mechanisms and integration</b>	
<b>2 Recognition and response to microbial infection in <i>Drosophila</i></b> <i>Nichole A. Broderick, David P. Welchman, and Bruno Lemaitre</i>	<b>13</b>
<b>3 Roles of haemolymph proteins in antimicrobial defences of <i>Manduca sexta</i></b> <i>Emily J. Ragan, Chunju An, Haobo Jiang, and Michael R. Kanost</i>	<b>34</b>
<b>4 <i>Drosophila</i> as a model for studying antiviral defences</b> <i>Jean-Luc Imler and Ioannis Eleftherianos</i>	<b>49</b>
<b>5 Specificity of the innate immune system: a closer look at the mosquito pattern-recognition receptor repertoire</b> <i>Suchismita Das, Yuemei Dong, Lindsey Garver, and George Dimopoulos</i>	<b>69</b>
<b>6 Comparative genomics of insect immunity</b> <i>Fotis Kafatos, Robert Waterhouse, Evgeny Zdobnov, and George Christophides</i>	<b>86</b>
<b>7 Physiological integration of innate immunity</b> <i>David Schneider</i>	<b>106</b>
<b>Section B Immune interactions and evolution</b>	
<b>8 The inherited microbiota of arthropods, and their importance in understanding resistance and immunity</b> <i>Gregory D.D. Hurst and Alistair C. Darby</i>	<b>119</b>
<b>9 Polydnviruses as tools to deliver wasp virulence factors to impair lepidopteran host immunity</b> <i>Sebastien Moreau, Elisabeth Huguet, and Jean-Michel Drezen</i>	<b>137</b>
<b>10 Immune responses and the evolution of resistance</b> <i>Jacob Koella</i>	<b>159</b>

<b>11 The impact of physiological state on immune function in insects</b> <i>Shelley A. Adamo</i>	<b>173</b>
<b>12 Costs and genomic aspects of <i>Drosophila</i> immunity to parasites and pathogens</b> <i>Alex R. Kraaijeveld and Bregje Wertheim</i>	<b>187</b>
<b>13 Population genetics of insect immune responses</b> <i>Punita Juneja and Brian P. Lazzaro</i>	<b>206</b>
<b>14 Ecological and evolutionary implications of specific immune responses</b> <i>Ben M. Sadd and Paul Schmid-Hempel</i>	<b>225</b>
<b>15 Reproductive immunity</b> <i>Michael T. Siva-Jothy</i>	<b>241</b>
<b>Index</b>	<b>251</b>