## **Contents**

Contributors		vii
1.	Diversity of viral RNA silencing suppressors and their involvement in virus-specific symptoms  Vitantonio Pantaleo and Chikara Masuta	1
	1. Introduction	2
	<ol> <li>Principles of RNA silencing pathways in plants</li> <li>Multilayer strategies of viruses for suppressing RNA silencing at the cellular</li> </ol>	3
	level	6
	4. Concluding remarks	15
	Acknowledgments	17
	References	17
2.	Animal models of alphavirus infection and human disease	25
	Cormac J. Lucas and Thomas E. Morrison	
	1. Introduction	26
	2. Alphavirus transmission cycles	27
	3. Human clinical disease	29
	4. Animal models	34
	5. Animal models of human disease	41
	6. Animal models of unique aspects of alphavirus infection	58
	7. Virus strains used in animal models	63
	8. Conclusions Acknowledgments	67 68
	References	68
	neierices	ÜC.
3.	Enteroviruses: The role of receptors in viral pathogenesis	89
	Emma Heckenberg, Justin T. Steppe, and Carolyn B. Coyne	
	1. Introduction	90
	2. Transmission and viral life cycle	92
	3. Enterovirus structure	95
	4. Enteroviruses and their receptors	96
	5. Enterovirus disease modeling	103
	<b>6.</b> Concluding remarks	105
	References	106