

Aiming Wang • Xueping Zhou
Editors

Current Research Topics in Plant Virology

 Springer

Contents

1	Antiviral Silencing and Suppression of Gene Silencing in Plants	1
	Tibor Csorba and József Burgyán	
2	Exploration of Plant Virus Replication Inside a Surrogate Host, <i>Saccharomyces cerevisiae</i>, Elucidates Complex and Conserved Mechanisms	35
	Zsuzsanna Sasvari and Peter D. Nagy	
3	Membrane Association for Plant Virus Replication and Movement	67
	Jun Jiang and Jean-François Laliberté	
4	Plant Genetic Resistance to Viruses	87
	Steven A. Whitham and M.R. Hajimorad	
5	Cell-to-Cell Movement of Plant Viruses: A Diversity of Mechanisms and Strategies	113
	Maria R. Rojas, Minor R. Maliano, Juliana O. de Souza, Marcela Vasquez-Mayorga, Mónica A. de Macedo, Byung-Kook Ham, and Robert L. Gilbertson	
6	Long-Distance Movement of Viruses in Plants	153
	Jang-Kyun Seo and Kook-Hyung Kim	
7	ER Stress, UPR and Virus Infections in Plants	173
	Lingrui Zhang and Aiming Wang	
8	Plant Virus Diversity and Evolution	197
	Anthony Stobbe and Marilyn J. Roossinck	

9	Plant Virus-Vector Interactions: More Than Just for Virus Transmission	217
	Clare L. Casteel and Bryce W. Falk	
10	Cross Protection of Plant Viruses: Recent Developments and Mechanistic Implications	241
	Xiao-Feng Zhang and Feng Qu	
11	Research Advances in Geminiviruses	251
	Xiuling Yang, Bi Wang, Fangfang Li, Qiuying Yang, and Xueping Zhou	
12	Research Advances in Negative-Strand Plant RNA Viruses	271
	Xiaorong Tao, Xueping Zhou, and Jia Li	
13	Viroids: Small Noncoding Infectious RNAs with the Remarkable Ability of Autonomous Replication	295
	José-Antonio Daròs	
14	Diagnosis of Plant Viruses Using Next-Generation Sequencing and Metagenomic Analysis	323
	Ian Adams and Adrian Fox	