

Contents

1 Food Virology: Advances and Needs	1
Charles P. Gerba	
2 Human and Animal Viruses in Food (Including Taxonomy of Enteric Viruses)	5
Gail E. Greening and Jennifer L. Cannon	
3 The Molecular Virology of Enteric Viruses	59
Javier Buesa and Jesús Rodríguez-Díaz	
4 Epidemiology of Food-Borne Viruses	131
Aron J. Hall	
5 Epidemiology of Viral Foodborne Outbreaks: Role of Food Handlers, Irrigation Water, and Surfaces	147
Craig Hedberg	
6 Case Studies and Outbreaks: Fresh Produce	165
Efstathia Papafragkou and Kaoru Hida	
7 Shellfish-Associated Enteric Virus Illness: Virus Localization, Disease Outbreaks and Prevention	185
Gary P. Richards	
8 Outbreaks and Case Studies: Community and Food Handlers	209
Qing Wang, Sarah M. Markland, and Kalmia E. Kniel	
9 Methods for Virus Recovery from Foods	231
Sagar M. Goyal and Hamada A. Aboubakr	
10 Methods for Virus Recovery in Water	277
Kristen E. Gibson and Mark A. Borchardt	

11	Molecular Detection Methods of Foodborne Viruses	303
	Preeti Chhabra and Jan Vinjé	
12	Methods for Estimating Virus Infectivity	335
	Doris H. D'Souza	
13	Survival of Enteric Viruses in the Environment and Food	367
	Gloria Sánchez and Albert Bosch	
14	Using Microbicidal Chemicals to Interrupt the Spread of Foodborne Viruses	393
	Syed A. Sattar and Sabah Bidawid	
15	Virus Inactivation During Food Processing.....	421
	Alvin Lee and Stephen Grove	
16	Natural Virucidal Compounds in Foods	449
	Kelly R. Bright and Damian H. Gilling	
17	Risk Assessment for Foodborne Viruses	471
	Elizabeth Bradshaw and Lee-Ann Jaykus	
	Index.....	505



<http://www.springer.com/978-3-319-30721-3>

Viruses in Foods

Goyal, S.M.; Cannon, J.L. (Eds.)

2016, XIII, 512 p. 26 illus., 13 illus. in color., Hardcover

ISBN: 978-3-319-30721-3