

Contents

Interaction of Ricin and Shiga Toxins with Ribosomes	1
Nilgun E. Tumer and Xiao-Ping Li	
How Ricin and Shiga Toxin Reach the Cytosol of Target Cells: Retrotranslocation from the Endoplasmic Reticulum	19
Robert A. Spooner and J. Michael Lord	
Ricin and Shiga Toxins: Effects on Host Cell Signal Transduction . . .	41
Dakshina M. Jandhyala, Cheleste M. Thorpe and Bruce Magun	
Pathogenesis of Shiga-Toxin Producing <i>Escherichia coli</i>	67
Angela Melton-Celsa, Krystle Mohawk, Louise Teel and Alison O'Brien	
Shiga Toxin Pathogenesis: Kidney Complications and Renal Failure	105
Tom G. Obrig and Diana Karpman	
The Induction of Apoptosis by Shiga Toxins and Ricin	137
Vernon L. Tesh	
Small-Molecule Inhibitors of Ricin and Shiga Toxins	179
Paul G. Wahome, Jon D. Robertus and Nicholas J. Mantis	
Immunity to Ricin: Fundamental Insights into Toxin–Antibody Interactions	209
Joanne M. O'Hara, Anastasiya Yermakova and Nicholas J. Mantis	

Animal Models of Ricin Toxicosis 243
Chad J. Roy, Kejing Song, Satheesh K. Sivasubramani,
Donald J. Gardner and Seth H. Pincus

Ricin Vaccine Development 259
Joan E. Smallshaw and Ellen S. Vitetta

Index 273