CONTENTS

Contributors		
1.	Antivirulence Properties of Probiotics in Combating Microbial Pathogenesis M. Surendran Nair, M.A. Amalaradjou and K. Venkitanarayanan	. 1
200	 Introduction Mechanisms of Bacterial Pathogenicity Mechanism of Action of Probiotics—Indirect Effect on Host Direct Effects or Antivirulence Attributes of Probiotics on Pathogens Conclusion References 	2 3 10 12 22 22
2.	Iron and Fungal Physiology: A Review of Biotechnological Opportunities L. Comensoli, S. Bindschedler, P. Junier and E. Joseph	31
	 Introduction Fungal Metabolic Activities Regarding Iron Iron and Biotechnology Case Study: Fungi to the Rescue of Archaeological Iron Conclusions Acknowledgments References 	32 34 44 45 54 55
3.	Contamination Control for Scientific Drilling Operations J. Kallmeyer	61
	 Introduction Drilling Techniques Contamination Tracers Concluding Remarks References 	62 64 72 87 88

	4. Microbial Phosphite Oxidation and Its Potential Role in the Global Phosphorus and Carbon Cycles	e 93
	I.A. Figueroa and J.D. Coates	,
	1. Introduction	94
	2. Phosphite Geochemistry From the Archean to the Anthropocene	95
	3. Phosphite Oxidation in Biology	101
	4. The Potential Role of Microbial Phosphite Oxidation in Global	
	Phosphorus Cycling and Primary Production	- 110
	5. Concluding Remarks	112
	Acknowledgments	113
	References	113