

Contents

Preface	v
1. Introduction	1
<i>Julio Villena, Susana Alvarez and Haruki Kitazawa</i>	
2. Modulation of Mucosal Immune System by Probiotics: Postulated Mechanisms	12
<i>Masanobu Nanno, Satoshi Matsumoto and Kan Shida</i>	
3. Difference in the Signals Induced by Commensal or Probiotic Bacteria to the Gut Epithelial and Immune Cells	36
<i>Carolina Maldonado Galdeano, Cecilia Ana Dogi and Gabriela Perdigón</i>	
4. Molecular Immunoassay Systems for Probiotics via Pattern Recognition Receptors	54
<i>Masanori Tohno and Haruki Kitazawa</i>	
5. Role of Toll-like Receptors in the Modulation of Intestinal Inflammation by Immunobiotics	89
<i>Julio Villena and Haruki Kitazawa</i>	
6. Immunobiotics for the Prevention of Bacterial and Viral Respiratory Infections	128
<i>Julio Villena, Susana Salvo, Natalia Barbieri and Susana Alvarez</i>	
7. Immunobiotics and Antiviral Immunity	169
<i>Kazutoyo Yoda, Kenji Miyazawa, Gaku Harata and Fang He</i>	
8. Immunobiotics and Immunity Against Parasites	194
<i>Martin A. Humen, Jalil Benyacoub, Jessica Minnaard, Dominique Brassart, Graciela De Antoni, Eduardo J. Schiffrin and Pablo Pérez</i>	
9. Immunobiotics and Allergy	215
<i>Noriyuki Iwabuchi, Toshitaka Odamaki and Jin-zhong Xiao</i>	
10. Immunobiotics and Inflammation-Coagulation	248
<i>María Hortensia Zelaya and María Graciela Agüero</i>	

11. Can Immunobiotics Beneficially Modulate Hemato-Immune Responses in Immunocompromised Hosts?	280
<i>Susana Salva, Julio Villena, Matías Herrera and Susana Alvarez</i>	
12. Probiotics and their Potential use in Wound Treatment	298
<i>Juan Carlos Valdez, Alberto Nicolás Ramos, Diego Fernández, Mirta Rachid, María Eugenia Sesto Cabral, Pablo Valdecantos, Luis Olea and Marcela Ortiz Mayor</i>	
13. Immunogenics: Immunostimulatory Oligodeoxynucleotides from Probiotics	336
<i>Takeshi Shimosato and Haruki Kitazawa</i>	
14. Immunogenics: Extracellular Bacterial Compounds as Mediators of Lactic Acid Bacteria-target Cell Interaction	354
<i>Ana Virginia Rodriguez, Guillermo Juarez, Graciela Font de Valdez and Julio Villena</i>	
15. Immunogenics: Extracellular Polysaccharides Reduce the Risk of Infection	376
<i>Seiya Makino, Shuji Ikegami, Takayuki Nagai and Haruki Yamada</i>	
Index	399