

CONTENTS

Contributors

vii

1. <i>Staphylococcus aureus</i> Aggregation and Coagulation Mechanisms, and Their Function in Host-Pathogen Interactions	1
H.A. Crosby, J. Kwiecinski and A.R. Horswill	
1. Introduction	2
2. Fibrinogen/Fibrin-Mediated Clumping	4
3. Role of Clumping/Agglutination in Disease	15
4. Anticlumping Mechanisms	20
5. Polysaccharide-Based Aggregation	23
6. Conclusions	25
Acknowledgments	27
References	27
2. In Sickness and in Health: The Relationships Between Bacteria and Bile in the Human Gut	43
A.J. Hay and J. Zhu	
1. Introduction	44
2. Bile in Digestion	44
3. Bile as a Barrier	47
4. Bacterial Responses to Bile	50
5. Conclusions	57
References	57
3. The Role of the Gut Microbiome on Chronic Kidney Disease	65
B. Sampaio-Maia, L. Simões-Silva, M. Pestana, R. Araujo and I.J. Soares-Silva	
1. Introduction	66
2. Gut Dysbiosis in Chronic Kidney Disease	68
3. Uremic Toxins and the Gut Microbiome	76
4. Intestinal Translocation, Inflammation, and Cardiovascular Risk in Chronic Kidney Disease Patients	80
5. Prevention Strategies of Gut Dysbiosis in Chronic Kidney Disease	82

6. Conclusion	84
Acknowledgments	86
References	86

Index	95
Contents of Previous Volumes	99