## Contents

1. **Antimicrobial Modifications on Critical Care Implants**
   - Zheng Zhang, Victoria E. Wagner, and John C. Victor
   - Page 1

2. **Antimicrobial and Anti-Biofilm Medical Devices: Public Health and Regulatory Science Challenges**
   - Yi Wang, Geetha Jayan, Dinesh Patwardhan, and K. Scott Phillips
   - Page 37

3. **Characterization of Bacterial Adhesion and Biofilm Formation**
   - Nil Tandogan, Pegah N. Abadian, Bowen Huo, and Edgar D. Goluch
   - Page 67

4. **Molecular Approaches for Studying Medical Device-Associated Biofilms: Techniques, Challenges, and Future Prospects**
   - Hongyan Ma and Kristy N. Katzenmeyer-Pleuss
   - Page 97

5. **Implantable Medical Devices Treated with Antimicrobial Agents**
   - Victoria E. Wagner and Nisha Gupta
   - Page 127

6. **Anti-antimicrobial Approaches to Device-Based Infections**
   - James D. Bryers
   - Page 143

7. **Microporous Materials in Antibacterial Applications**
   - Russell E. Morris
   - Page 171

8. **Anti-fouling Medical Coatings**
   - Jun Li, Matthew Taylor, and Zheng Zhang
   - Page 189

9. **Exploring the Potential of Light to Prevent and Treat Microbial Biofilms in Medical and Food Applications**
   - Tara L. Vollmerhausen, Alan J. Conneely, and Conor P. O’Byrne
   - Page 215

10. **Light-Triggered Anti-Infective Surfaces**
    - Rebecca A. Craig and Colin P. McCoy
    - Page 241

**Index**

- Page 267
Antimicrobial Coatings and Modifications on Medical Devices
Zhang, Z.; Wagner, V.E. (Eds.)
2017, IX, 273 p. 49 illus., 34 illus. in color., Hardcover
ISBN: 978-3-319-57492-9