

Contents

<i>Preface</i>	iii
1. Culture-Dependent and -Independent Strategies in Bacterial Diversity Appraisal	1
<i>Meora Rajeev, T. J. Sushmitha and Shunmugiah Karutha Pandian</i>	
2. Methods for Isolation and Identification of Microorganisms	28
<i>Asmaa Missoum</i>	
3. Application of Microorganisms	51
<i>Govindan Rajivgandhi and Wen-Jun Li</i>	
4. Microbial Cell Factories	76
<i>Asmaa Missoum</i>	
5. Metabolic Engineering	100
<i>Duygu Nur Arabaci, Onat Cinlar, Aiyoub Shahi and Sevcan Aydin</i>	
6. Composition and Biological Activities	113
<i>Asmaa Missoum</i>	
7. Waste Treatments	145
<i>Aiyoub Shahi, Duygu Nur Arabaci, Onat Cinlar and Sevcan Aydin</i>	
8. Energy	166
<i>Duygu Nur Arabaci, Ilayda Dilara Unlu, Aiyoub Shahi and Sevcan Aydin</i>	
9. Next Generation Sequencing: Advances and Applications in the World of Bacterial Diversity	178
<i>T. J. Sushmitha, Meora Rajeev and Shunmugiah Karutha Pandian</i>	
<i>Index</i>	211