

## Contents

<b><i>Penicillium canescens</i> Host as the Platform for Development of a New Recombinant Strain Producers of Carbohydrases . . . . .</b>	<b>1</b>
Arkady P. Sinitsyn and Alexandra M. Rozhkova	
<b>Microbial Life on Green Biomass and Their Use for Production of Platform Chemicals . . . . .</b>	<b>21</b>
Petra Schönicke, Robert Shahab, Rebekka Hamann, and Birgit Kamm	
<b>Microorganism for Bioconversion of Sugar Hydrolysates into Lipids . . . . .</b>	<b>51</b>
Alessandro Luis Venega Coradini, Andréia Anschau, Annamaria Dória Souza Vidotti, Érika Marques Reis, Michelle da Cunha Abreu Xavier, Renato Sano Coelho, and Telma Teixeira Franco	
<b>Lignocellulosic Hydrolysates for the Production of Polyhydroxyalkanoates . . . . .</b>	<b>79</b>
M. Teresa F. Cesário and M. Catarina M. Dias de Almeida	
<b>Microbial Research in High-Value Biofuels . . . . .</b>	<b>105</b>
Dženan Hozić	
<b>Microorganisms for Biorefining of Green Biomass . . . . .</b>	<b>157</b>
Mette Hedegaard Thomsen, Ayah Alassali, Iwona Cybulska, Ahmed F. Yousef, Jonathan Jed Brown, Margrethe Andersen, Alexander Ratkov, and Pauli Kiel	
<b>Microbial Succinic Acid Production Using Different Bacteria Species . . . . .</b>	<b>183</b>
Qiang Li and Jianmin Xing	

<b>Whole-Cell Biocatalytic Production of 2,5-Furandicarboxylic Acid . . . . .</b>	<b>207</b>
Nick Wierckx, Tom D. Elink Schuurman, Lars M. Blank, and Harald J. Ruijssenaars	
<b>Microorganisms for the Production of Lactic Acid and Organic Lactates . . . . .</b>	<b>225</b>
Christine Idler, Joachim Venus, and Birgit Kamm	
<b>Microbial Lactone Synthesis Based on Renewable Resources . . . . .</b>	<b>275</b>
Robert Kourist and Lutz Hilterhaus	
<b>Production of Industrially Relevant Isoprenoid Compounds in Engineered Microbes . . . . .</b>	<b>303</b>
Claudia E. Vickers, James B.Y.H. Behrendorff, Mareike Bongers, Timothy C.R. Brennan, Michele Bruschi, and Lars K Nielsen	
<b>The Role of Cellulose-Hydrolyzing Bacteria in the Production of Biogas from Plant Biomass . . . . .</b>	<b>335</b>
Vladimir V. Zverlov, Daniela E. Köck, and Wolfgang H. Schwarz	
<b>Index . . . . .</b>	<b>363</b>