

Contents

Preface.....	vii
Acknowledgments.....	ix
Editors.....	xi
Contributors.....	xiii
Chapter 1 Microbial biotechnology: An introduction.....	1
<i>Farshad Darvishi Harzevili</i>	
Chapter 2 Screening of microbial metabolites and bioactive components.....	9
<i>R. Baskaran, P.M. Mohan, S. Ganesamoorthy, and Ashok Kumar Nadda</i>	
Chapter 3 Metagenomics as advanced screening methods for novel microbial metabolites.....	43
<i>Sakshi Sharma and Jyoti Vakhlu</i>	
Chapter 4 Genetic engineering of nonconventional yeasts for the production of valuable compounds.....	63
<i>Andriy Sibirny, Catherine Madzak, and Patrick Fickers</i>	
Chapter 5 Induced anhydrobiosis: Powerful method for preservation of industrial microorganisms.....	113
<i>Armando Hernández García</i>	
Chapter 6 Recent developments in solid-state fermentation: Chinese herbs as substrate.....	131
<i>Hongzhang Chen and Guanhua Li</i>	
Chapter 7 Microbial biofuels production.....	155
<i>Anoop Singh and Poonam Singh Nigam</i>	
Chapter 8 Microbial production of organic acids.....	169
<i>Sarafadeen Olateju Kareem and Temitope Banjo</i>	
Chapter 9 Microbial amino acids production.....	187
<i>Zafar Alam Mahmood</i>	
Chapter 10 Probiotics: The possible alternative to disease chemotherapy.....	213
<i>Adel M. Mahasneh and Muna M. Abbas</i>	

Chapter 11 Microbial healthcare products	239
<i>Zafar Alam Mahmood and Saad Bin Zafar Mahmood</i>	
Chapter 12 Microbial biomass production	279
<i>Ashok K. Rathoure</i>	
Chapter 13 Microbial biofertilizers and their pilot-scale production	297
<i>Santosh Kumar Sethi, Jayanti Kumari Sahu, and Siba Prasad Adhikary</i>	
Chapter 14 Bacterial biocontrol agents	317
<i>Rikita Gupta and Jyoti Vakhlu</i>	
Chapter 15 Microbial biodegradation of polycyclic aromatic hydrocarbons	331
<i>Pankaj Kumar Jain</i>	
Index	351