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**US\$ 129.00**

Print-on-Demand  
**US\$ 155.00**

Institutional E-Book Price  
**US\$ 516.00**

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eISBN: 978-1-68108-325-4

## Microbial Biopolyester Production, Performance and Processing: Microbiology, Feedstocks, and Metabolism

[www.ebooks.benthamscience.com/book/9781681083254/](http://www.ebooks.benthamscience.com/book/9781681083254/)

### About the eBook

This volume encompasses eight chapters that cover aspects of the microbiology and biotechnology of producing biodegradable plastics. The contents focus on the selection of powerful archaeal and eubacterial production strains, genetic engineering as a tool for optimized PHA production and inexpensive carbon sources for microbial cultures.

### Contents

- Novel Inexpensive Feedstocks from Agriculture and Industry for Microbial Polyester Production
- PHA Biopolyester Production from Surplus Whey: Microbiological and Engineering Aspects
- Biopolyesters and Related Valuable Products in Phototrophic Microbes
- Biopolymer Production by Mixed Microbial Cultures: Integrating Remediation with Valorization
- *Ralstonia Eutropha* and the Production of Value Added Products: Metabolic Background of the Wild-Type Strain and its Role as a Diverse, Genetically-Engineered Biocatalyst Organism
- PHBHV Biosynthesis by *Haloferax mediterranei*: from Genetics, Metabolism, and Engineering to Economical Production
- Bacterial Genetic Modifications for Improving Polyhydroxyalkanoates Production from Inexpensive Carbon Sources
- Medium-Chain-Length Poly-3-hydroxyalkanoates

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