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Titolo	Rhamnolipid Biosurfactant : Recent Trends in Production and Application / / by Rajesh Kumar, Amar Jyoti Das
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Descrizione fisica	1 online resource (146 pages)
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Soggetti	Biomedical engineering
	Microbiology
	Microbial genetics
	Microbial genomics
	Genetic engineering
	Nanotechnology
	Biomedical Engineering/Biotechnology
	Eukaryotic Microbiology
	Microbial Genetics and Genomics
	Genetic Engineering
	Nanotechnology and Microengineering
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Nota di contenuto	Chapter 1. Rhamnolipd biosurfactants and their properties Chapter 2. Extraction, detection and characterization of rhamnolipid biosurfactants from microorganisms Chapter 3. Production of rhamnolipids Chapter 4. Advancement of genetic engineering in rhamnolipid production Chapter 5. Environmental applications of rhamnolipids Chapter 6. Industrial applications of rhamnolipid: an innovative green technology for industry Chapter 7. Application of rhamnolipids in medical sciences Chapter 8. Role of rhamnolipids in enhanced oil recovery and oil industry Chapter 9. Application of rhamnolipids in agriculture and food industry Chapter 10. Rhamnolipid assisted synthesis of stable nanoparticles: a green approach Chapter 11. Quorum sensing: Its role in rhamnolipid

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	production Chapter 12. Future prospects and scenario of rhamnolipids.
Sommario/riassunto	This book highlights the recent developments on rhamnolipid biosurfactant, its properties, role on the natural environment and various applications. Recently, it has shown promising application in Environment, Agriculture, food, petroleum, and pharmaceutical industries due to its environment-friendly and easily degradable nature. The book emphasizes on the various techniques that are utilized for the detection and isolation of rhamnolipid biosurfactant from microorganisms. It highlights the various aspects of the rhamnolipid biosurfactants including structural characteristics, production, and its application. The book presents the current knowledge and the latest advances in the function-based metagenomics strategies to facilitate the exploration of the novel biosurfactants.