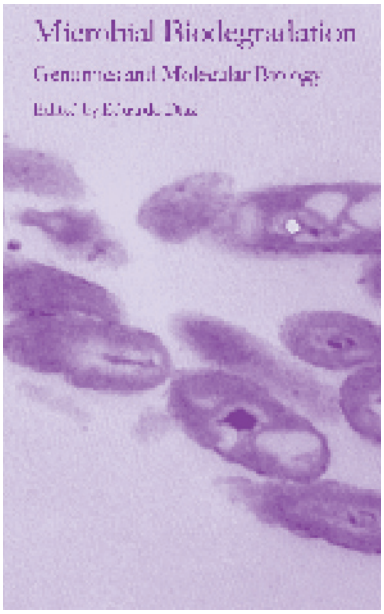
Microbial Biodegradation

Genomics and Molecular Biology



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Interest in the microbial biodegradation of pollutants has intensified in recent years as mankind strives to find sustainable ways to cleanup contaminated environments. The development of novel methodological strategies, enabling detailed genomic, metagenomic, proteomic, bioinformatic and other high-throughput analyses of environmentally relevant microorganisms, has heralded a new era in microbial biodegradation and allowed unprecedented insights into key biodegradative pathways and the ability of organisms to adapt to changing environmental conditions.

In this unique book expert international authors critically review all of the most important topics in this exciting field from a molecular biology and genomics perspective. Essential reading for microbial degradation and bioremediation scientists and of general interest for microbiologists working in the field of environmental microbiology.

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