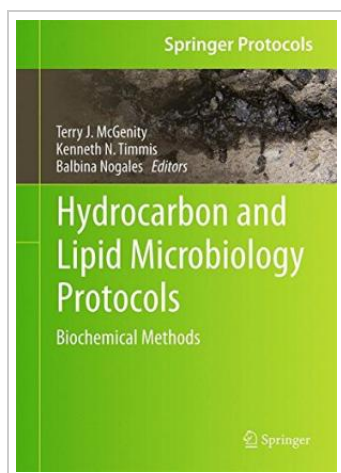



[DOWNLOAD](#)


Hydrocarbon and Lipid Microbiology Protocols: Biochemical Methods (Springer Protocols Handbooks)

By -

Springer. Hardcover. Condition: New. This Volume provides protocols for the biochemical analysis of hydrocarbon- and lipid-relevant products, cell components and activities of microbes that interact with hydrophobic compounds. They include methods for the extraction, purification and characterisation of surface tension-reducing bioemulsifiers and biosurfactants that increase the surface area and hence bioavailability of hydrophobic substrates. Protocols for the isolation and biochemical analysis of lipids and polyhydroxyalkanoates, food storage products made during nutrient abundance that represent important biotechnological products, are presented. The extraction of membrane lipid rafts, sub-organelles that fulfil important functional roles for the cell membrane, and the isolation and characterisation of membrane phospholipid biomarkers, are also described. The purification and characterisation of integral membrane hydrocarbon-oxidising enzymes are addressed. Lastly, two generic methods for the genetic analysis of catabolic pathways and analysis of ligand binding are presented. Tens of thousands of hydrocarbons, their derivatives and lipids play vital roles in all organisms, from structural cellular components to signalling molecules. The global hydrocarbon cycle, which is largely driven by microorganisms, has a major impact on our environment and climate. Microbes are responsible for cleaning up the environmental pollution caused by the exploitation of hydrocarbon reservoirs and will also be pivotal in reducing...


[READ ONLINE](#)

[7.85 MB]

Reviews

The ebook is simple in go through safer to understand. I could possibly comprehended every thing out of this composed e pdf. Its been designed in an exceptionally basic way in fact it is only soon after i finished reading this pdf by which actually altered me, modify the way i really believe.

-- **Ms. Kellie O'Hara I**

This is actually the finest ebook i have got study till now. I actually have go through and that i am sure that i am going to likely to read once again once again later on. Its been developed in an extremely straightforward way and is particularly simply soon after i finished reading through this ebook through which actually modified me, change the way i really believe.

-- **Mrs. Maybelle O'Conner**