


[DOWNLOAD](#)


## Hydrocarbon and Lipid Microbiology Protocols : Single-Cell and Single-Molecule Methods

By Terry J. McGenity

Springer-Verlag GmbH Apr 2016, 2016. Buch. Condition: Neu. Neuware - This Volume presents relevant single-cell and single-molecule approaches in the study of microbes producing and utilizing hydrocarbons and lipids. While generically applicable for all microorganisms, the approaches described are, wherever possible, adapted to the field of study of hydrocarbon and lipid microbiology. The methods include basic procedures for isolating single cells by means of microfluidics and flow cytometry, and their cultivation in arrays as pure clones; for isolating, amplifying and sequencing single-cell genomes and transcriptomes; and for analysing single-cell metabolomes by means of Raman spectroscopy. Single-molecule approaches include the use of protein:fluorescent dye fusions for protein localization and methods for the production of cell division protostructures and lipid monolayers. Methods for the functional analysis of single cells include detection of metabolically active (protein-synthesizing) cells in environmental samples by bioorthogonal non-canonical amino acid tagging, Raman spectroscopy combined with stable isotope labelling and fluorescent in situ hybridisation, and visualization of single cells participating in gene transfer activity. Lastly, protocols are presented for single-cell biotechnological applications, including biofuel production. Hydrocarbon and Lipid Microbiology Protocols There are tens of thousands of structurally different hydrocarbons, hydrocarbon derivatives and lipids, and a wide array of these...



**READ ONLINE**  
[ 6.63 MB ]

### Reviews

*Extensive guide for ebook lovers. It generally does not cost excessive. Your way of life span will likely be convert the instant you complete looking at this ebook.*

*-- Rocky Dach*

*Certainly, this is the very best work by any author. It is amongst the most remarkable publication i have got study. I am just happy to inform you that this is actually the greatest pdf i have got study inside my individual daily life and can be he very best publication for at any time.*

*-- Gilbert Rippin*

## Related PDFs



**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you can. Digitally preserved and previously accessible only...



**Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625)**

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you can. Digitally preserved and previously accessible...



**The Sunday Kindergarten Game Gift and Story: A Manual for Use in the Sunday, Schools and in the Home (Classic Reprint)**

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from The Sunday Kindergarten Game Gift and Story: A Manual for Use in the Sunday, Schools and in...



**Superhero Max- Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Superhero Max- Read it Yourself with Ladybird: Level 2, Superhero Max - Max is an ordinary boy, but he is also Swooperman, a superhero! When the baddies take his swoop boots, can he...



**Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2, Peter Rabbit: The Angry Owl Squirrel Nutkin has lost Old Brown's glasses and the owl is not happy! Will Peter...



**Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2**

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Peter Rabbit: Treehouse Rescue - Read it Yourself with Ladybird: Level 2, This is based on the new Peter Rabbit animated TV series. Peter and Lily need to escape Mr Tod, but will...