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Heinz Wilkes (Hrsg.)

# Hydrocarbons, Oils and Lipids: Diversity, Origin, Chemistry and Fate

Reihe: Handbook of Hydrocarbon and Lipid Microbiology

- Explores structural diversity and properties of important types of hydrocarbons and lipids
- Examines occurrence, biosynthesis and biological functions of hydrocarbons and lipids
- Discusses the environmental context both from a bio- as well as the geoscience perspective

This book describes the structural features and properties of important types of hydrocarbons and lipids and gives an overview of their analytical characterization in biological and environmental matrices. It covers the occurrence, biosynthesis and biological functions of these compound types in diverse organisms including bacteria and archaea, algae, higher plants and arthropods. It examines their distribution in the geosphere and fundamental processes controlling the fate of fossil organic matter. Finally, it addresses important aspects of their environmental chemistry and transfer processes between different compartments of bio- and geosphere. Hydrocarbons and lipids comprise extremely diverse organic compounds that play fundamental roles in biosphere and geosphere. They represent important functional components in all living organisms and constitute a major fraction of fossil organic matter in sedimentary systems. All chapters are written by renowned experts in the respective fields.

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