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Titolo	Health consequences of microbial interactions with hydrocarbons, oils, and lipids // editor, Howard Goldfine
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ISBN	3-319-72473-8
Descrizione fisica	xviii, 493 pages : 81 illustrations (chiefly color), portraits ; ; 25 cm
Collana	Handbook of Hydrocarbon and Lipid Microbiology
Disciplina	579.135
Soggetti	Lipids Mycobacteria
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Bacterial Adherence to Plant and Animal Surfaces Via Adhesin-Lipid Interactions.- Lipid Rafts in Bacteria: Structure and Function.- Lipids and Legionella Virulence.- Lipids of Clinically Significant Mycobacteria.- Mycobacterial Lipid Bodies and the Chemosensitivity and Transmission of Tuberculosis.- Role of Sphingolipids in Bacterial Infections.- Participation of Bacterial Lipases, Sphingomyelinases, and Phospholipases in Gram-negative Bacterial Pathogenesis.- Participation of Bacterial Lipases, Sphingomyelinases, and Phospholipases in Gram-Positive Bacterial Pathogenesis.- Methanotrophy, Methylotrophy, the Human Body, and Disease.- Skin: Cutibacterium (formerly Propionibacterium) acnes and Acne Vulgaris.- Hydrocarbon Degraders as Pathogens.- Antimicrobial Activity of Essential Oils.- Infection Prevention: Oil- and Lipid-Containing Products in Vaccinology.- Tuning Activity of Antimicrobial Peptides by Lipidation.- Gastrointestinal Tract: Fat Metabolism in the Colon.- Gastrointestinal Tract: Intestinal Fatty Acid Metabolism and Implications for Health.- Gastrointestinal Tract: Microbial Metabolism of Steroids.- Microbial Oils as Nutraceuticals and Animal Feeds.- Microbiome Metabolic Potency Towards Plant Bioactives and Consequences for Health Effects.- Poly-Beta-Hydroxybutyrate (PHB) and Infection Reduction in Farmed Aquatic Animals.-
Sommario/riassunto	This book is a compilation of the most relevant molecular mechanisms and cellular processes that are involved in the infection processes in

relation to lipid metabolism. The authors are international experts in the field of infection biology. Readers will understand infection metabolism and the contribution of lipids and lipid-protein interaction to lipids. Microbial lipids play an important role in almost all cellular phenomena. Microbial infections also contain an important virulence component in microbial lipids. The secretion of lipid vesicles that contain virulence factors, the assembly of lipid membrane microdomains harboring signal transduction pathways relate to infection process and the number of lipid-protein interactions that are necessary for the internalization of pathogens to host cells are some examples of the importance of lipids and lipid metabolism in the development of infections.
