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Titolo	Microbial Metabolomics : Applications in Clinical, Environmental, and Industrial Microbiology // edited by David J. Beale, Konstantinos A. Kouremenos, Enzo A. Palombo
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Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VII, 321 p. 29 illus., 24 illus. in color.)
Disciplina	571.6
Soggetti	Metabolism Chromatography Mass spectrometry Metabolomics Mass Spectrometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Preface -- Introduction to Microbial Metabolomics -- Microbes, Metabolites, and Health -- Exploring the Bioactive Landscape of the Gut Microbiome to Identify Metabolites Underpinning Human Health -- Using Metabolomic Approaches to Characterize the Human Pathogen Leishmania in Macrophages -- Exometabolomics for Linking Soil Carbon Dynamics to Microbial Communities -- Soil Microbial Metabolomics -- Community Metabolomics in Environmental Microbiology -- Metabolomics: Applications to Food Safety and Quality -- Microbial Metabolomics in Biomass Waste Management -- Beyond Metabolomics: A Review of Multi-Omics-Based Approaches.
Sommario/riassunto	This book brings together contributions from global experts who have helped to facilitate the exciting and rapid advances that are taking place in microbial metabolomics. The main application of this field is in clinical and veterinary microbiology, but there is a great potential to apply metabolomics to help to better understand complex biological systems that are dominated by multiple-species microbial populations exposed to changing growth and nutritional conditions. In particular,

environmental (e.g., water, soil), food (e.g., microbial spoilage, food pathogens), and agricultural and industrial applications are seen as developing areas for microbial metabolomics. As such, the book includes contributions with clinical, environmental, and industrial perspectives.
