Environmental Microbiology: From Genomes to Biogeochemistry

Eugene L. Madsen
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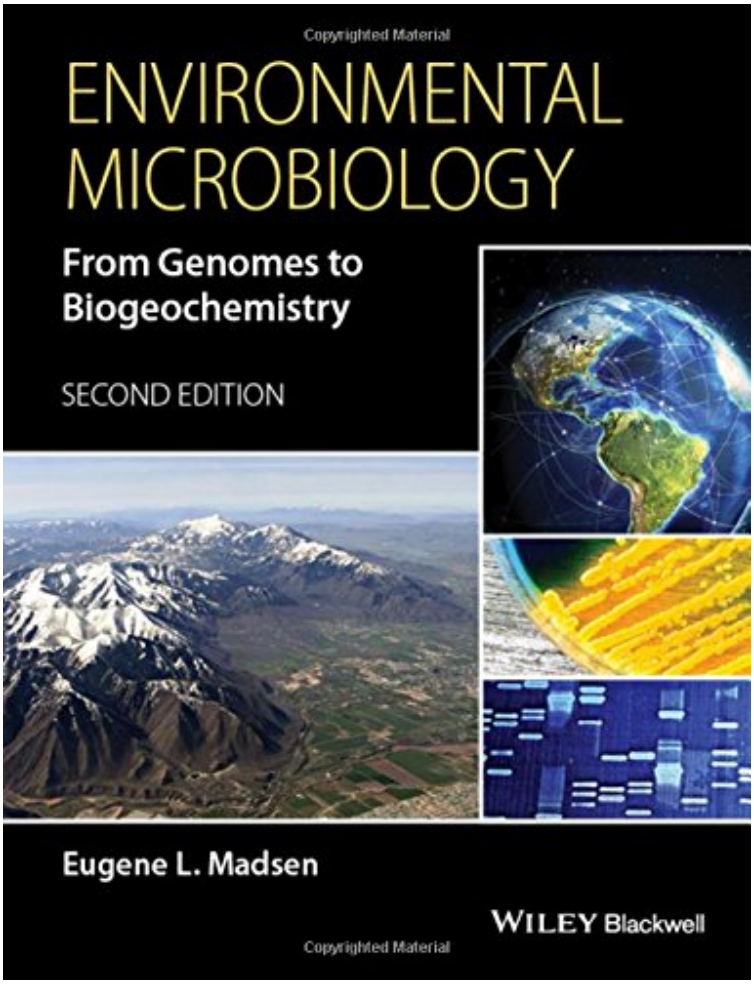

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Eugene L. Madsen : Environmental Microbiology: From Genomes to Biogeochemistry before purchasing it in order to gage whether or not it would be worth my time, and all praised Environmental Microbiology: From Genomes to Biogeochemistry:

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New and expanded for its second edition, Environmental Microbiology: From Genomes to Biogeochemistry Second Edition, is a timely update to a classic text filled with ideas, connections, and concepts that advance an in-depth understanding of this growing segment of microbiology. Core principles are highlighted with an emphasis on the logic of the science and new methods-driven discoveries. Numerous up-to-date examples and applications boxes provide tangible reinforcement of material covered. Study questions at the end of each chapter require students to utilize analytical and quantitative approaches, to define and defend arguments, and to apply microbiological paradigms to

their personal interests. Essay assignments and related readings stimulate student inquiry and serve as focal points for teachers to launch classroom discussions. A companion website with downloadable artwork and answers to study questions is also available. Environmental Microbiology: From Genomes to Biogeochemistry, Second Edition, offers a coherent and comprehensive treatment of this dynamic, emerging field, building bridges between basic biology, evolution, genomics, ecology, biotechnology, climate change, and the environmental sciences.

From the Back CoverBiogeochemistry, Second Edition, is a timely update to a classic text filled with ideas, connections, and concepts that advance an in-depth understanding of this growing segment of microbiology. Core principles are highlighted with an emphasis on the logic of the science and new methods-driven discoveries. Numerous up-to-date examples and applications boxes provide tangible reinforcement of material covered. Study questions at the end of each chapter require students to utilize analytical and quantitative approaches, to define and defend arguments, and to apply microbiological paradigms to their personal interests. Essay assignments and related readings stimulate student inquiry and serve as focal points for teachers to launch classroom discussions. A companion website with downloadable artwork and answers to study questions is also available. Environmental Microbiology: From Genomes to Biogeochemistry, Second Edition offers a coherent and comprehensive treatment of this dynamic, emerging field, building bridges between basic biology, evolution, genomics, ecology, biotechnology, climate change, and the environmental sciences. Builds on the First Edition with updates from the current literature and expanded references Establishes basic core concepts and integrates the many subdisciplines of environmentalmicrobiology with a unified, single-author treatment Focuses on how information is generated and advanced in environmental microbiology including methods, logic, and data interpretation New edition highlights the omics technology revolution in biology and its future impacts onenvironmental microbiology Emphasizes real-world habitats and the selective pressures experienced by naturallyoccurring microorganisms Covers state-of-the-art treatment of microbial diversity and cultured versus non-culturedmicrobial life Includes case studies and Science and the Citizen features, which tie issues in the public eye to the underlying scienceAbout the AuthorAbout the AuthorEugene L. Madsen is a Professor in the Department of Microbiology at Cornell University, Ithaca, New York, USA.