



Microbial Ecology: An Evolutionary Approach

J Vaun McArthur

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Based on the thesis that insights into both evolution and ecology can be obtained through the study of microorganisms, **Microbial Ecology** examines microbiology through the lens of evolutionary ecology. Measured from a microbial perspective, this text covers such topics as optimal foraging, genome, reduction, novel evolutionary mechanisms, bacterial speciation, and r and K selection. Numerous aspects of microbial existence are also discussed and include: species competition, predation, parasitism, mutualism, microbial communication through quorum sensing and other . The result is a context for understanding microbes in nature and a framework for microbiologists working in industry, medicine, and the environment.

- * Applies evolutionary ecological concepts to microbes
- * Addresses individual, population and community ecology
- * Presents species concepts and offers insights on the origin of life and modern microbial ecology
- * Examines topics such as species interactions, nutrient cycling, quorum sensing and cheating

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