



Geomicrobiology: Molecular and Environmental Perspective

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Condition: New. Publisher/Verlag: Springer Netherlands | Geomicrobiology provides an interdisciplinary review of recent developments in the origin of life, microbial-mineral interactions, and microbial processes functioning in marine and terrestrial environments. Topics include environmental proteomics and an analysis of microbes in complex, natural communities. | The interaction of microorganisms with geological activities results in processes influencing development of the Earth's geo- and biospheres. In assessing these microbial functions, scientists have explored short- and long-term geological changes attributed to microorganisms and developed new approaches to evaluate the physiology of microbes including microbial interaction with the geological environment. As the field of geomicrobiology developed, it has become highly interdisciplinary and this book provides a review of the recent developments in a cross section of topics including origin of life, microbial-mineral interactions and microbial processes functioning in marine as well as terrestrial environments. A major component of this book addresses molecular techniques to evaluate microbial evolution and assess relationships of microbes in complex, natural communities. Recent developments in so-called 'omics' technologies, including (meta)genomics and (meta)proteomics, and isotope labeling methods allow new insights into the function of microbial community members and their possible geological impact. While this book summarizes current knowledge in various...



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