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Manual of Environmental Microbiology, 3rd Edition

Editors: Christon J. Hurst, Ronald L. Crawford, Jay L. Garland, David A. Lipson, Aaron L. Mills, and Linda D. Stetzenbach

Thoroughly updated and revised, this third edition assembles in a single volume the most definitive information on microbes in air, water, and soil and their impact on human health and welfare. Five general areas detailed throughout this volume are: basic principles of environmental microbiology, general analytical methodologies, detection of microbial activity, the impact of microbial activity on the environment, and detection and control of pathogens in the environment.

Physiology and Biochemistry of Extremophiles

Editors: Charles Gerday and Nicholas Glansdorff

This extensive and up-to-date survey is the first to thoroughly describe the environments where these organisms reside and sheds light, at the molecular level, on the mechanisms that enable these unique organisms to survive. The 28 chapters written by experts around the globe identify extremophiles, explore their unique ecologies, explain their physiologies, and discuss biotechnological applications.

Archaea: Molecular and Cellular Biology

Editor: Ricardo Cavicchioli

This path-breaking book fully describes the molecular cell biology of the archaea in one accessible and readable volume. With 23 chapters by the world's leading experts, this book emphasizes each author's individual research expertise while also being a general guide to the latest knowledge on archaea. The core of the book describes the key cellular processes such as DNA replication, transcription, translation, lipids, and metabolism.

Microbial Diversity and Bioprospecting

Editor: Alan T. Bull

This volume brings together for the first time the diverse and complex sets of technology, data, knowledge, ideas, and objectives into an integrated and holistic approach to bioprospecting. It demonstrates the need for modern microbiologists to have an integrated perspective of science in order to address the big questions in microbiology and is invaluable reading for instructors and researchers in environmental microbiology, biotechnology, and microbial diversity as well as for applied biologists.



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