

Soil Microbiology, Ecology and Biochemistry, Fourth Edition

By Eldor A. Paul

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The fourth edition of *Soil Microbiology, Ecology and Biochemistry* updates this widely used reference as the study and understanding of soil biota, their function, and the dynamics of soil organic matter has been revolutionized by molecular and instrumental techniques, and information technology. Knowledge of soil microbiology, ecology and biochemistry is central to our understanding of organisms and their processes and interactions with their environment. In a time of great global change and increased emphasis on biodiversity and food security, soil microbiology and ecology has become an increasingly important topic.

Revised by a group of world-renowned authors in many institutions and disciplines, this work relates the breakthroughs in knowledge in this important field to its history as well as future applications. The new edition provides readable, practical, impactful information for its many applied and fundamental disciplines. Professionals turn to this text as a reference for fundamental knowledge in their field or to inform management practices.

- New section on "Methods in Studying Soil Organic Matter Formation and Nutrient Dynamics" to balance the two successful chapters on microbial and physiological methodology
- Includes expanded information on soil interactions with organisms involved in human and plant disease
- Improved readability and integration for an ever-widening audience in his field
- Integrated concepts related to soil biota, diversity, and function allow readers in multiple disciplines to understand the complex soil biota and their function

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Editorial Review

About the Author
Eldor A. Paul is a Senior Research Scientist at the Natural Resources Ecology Laboratory at Colorado State University, Fort Collins and Professor Emeritus at Michigan State University, East Lansing. During his time at Michigan State, he was professor of Soil Microbiology and Biochemistry, and Crop and Soil Sciences. He earned degrees from the University of Alberta and the University of Minnesota. His research focuses on the dynamics of soil organic matter and the microbial ecology of soil. Dr. Paul is a Fellow of ASA, SSSA, the Canadian Society of Soil Science, and the American Association for the Advancement of Science.

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