



## Ehrlich's Geomicrobiology, Sixth Edition

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Advances in geomicrobiology have progressed at an accelerated pace in recent years. **Ehrlich's Geomicrobiology, Sixth Edition** surveys various aspects of the field, including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels. Unlike the fifth edition, the sixth includes many expert contributors besides the editors, providing added depth to each topic and broadening this edition's overall insight into geomicrobiology.

The *Sixth Edition* Includes:

- Extensive revisions and updates to most chapters from the fifth edition
- A new chapter on terrestrial subsurface ecosystems
- A new chapter summarizing important principles of geomicrobiology
- New discussions and references on the latest findings and theories in geomicrobiology

Through revisions, updates, and the introduction of new authors who are specialists on the topics covered, this new edition is the most in-depth and current overview of geomicrobiology. The research presented has applications in agriculture, forestry, aquaculture, marine science, the metals industry, and more. The new breadth and scope as well as the current and developing applications which this book addresses make it a must-have source in geomicrobiology.

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### Editorial Review

#### About the Author

**Henry Lutz Ehrlich**, PhD, is an active retiree with the Rensselaer Polytechnic Institute, Troy, New York. He earned his PhD in agricultural microbiology with a minor in biochemistry from the University of Wisconsin, Madison. He is a fellow of the American Academy of Microbiology and the American Association for the Advancement of Science. His research efforts have centered on geomicrobiology since 1959, and he was the editor-in-chief of the *Geomicrobiology Journal* from 1983-1995 and has been the co-editor-in-chief since 1995.

Andreas Kappler, PhD, is professor of geomicrobiology at Eberhard Karls University of Tübingen, Germany. He received his PhD in environmental microbiology and microbial ecology at the University of Konstanz, Germany. He moved to Tübingen in 2004 to head an Emmy-Noether Junior Research Group in geomicrobiology before being appointed to his current professorship. His research focuses on the formation and transformation of iron (Fe) minerals by Fe (II)-oxidizing and Fe (III)-reducing bacteria, the implications of these processes for the fate of pollutants in soils and sediments, and the deposition of iron minerals on early Earth. His research combines microbial cultivation, molecular biology, fluorescence and electron microscopy, Mössbauer spectroscopy, synchrotron-based X-ray absorption spectroscopy, and spectromicroscopy.

**Dianne K. Newman**, PhD, earned her doctorate in environmental engineering with an emphasis on microbiology from the Massachusetts Institute of Technology in Cambridge. She gained training in bacterial genetics as a postgraduate scholar at Harvard Medical School. She is professor of biology and geobiology and an investigator of the Howard Hughes Medical Institute at the California Institute of Technology, Pasadena. She is a member of the American Society of Microbiology and the American Geophysical Union. Her research focuses on understanding the coevolution of anaerobic microbial metabolisms and environmental chemistry. The contexts that motivate her research span ancient sedimentary deposits to chronic infections. Her work is helping to reshape interpretations of ancient molecular fossils as well as redox-active "secondary" metabolites.

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