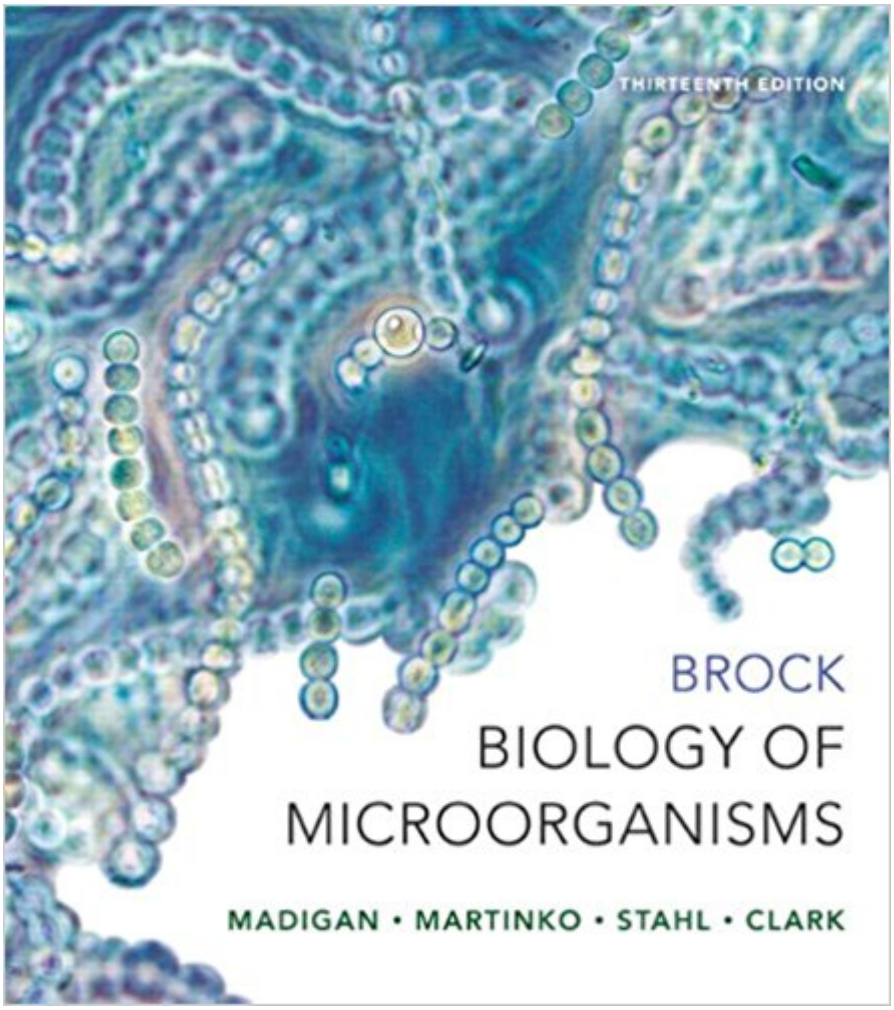
Brock Biology Of Microorganisms (13th Edition)



Synopsis

The authoritative #1 textbook for introductory majors microbiology, Brock Biology of Microorganisms continues to set the standard for impeccable scholarship, accuracy, and outstanding illustrations and photos. This book for biology, microbiology, and other science majors balances cutting edge research with the concepts essential for understanding the field of microbiology.Ã Â Ã Â In addition to a new co-author, David Stahl, who brings coverage of cutting edge microbial ecology research and symbiosis to a brand new chapter (Chapter 25), a completely revised overview chapter on Immunology (Chapter 28), a new "Big Ideas" section at the end of each chapter, and a wealth of new photos and art make the Thirteenth Edition better than ever. Brock Biology of Microorganisms speaks to todayÃ¢â ¬â„¢s students while maintaining the depth and precision science majors need.

Book Information

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Customer Reviews

Michael T. Madigan received his B.S. in Biology and Education from Wisconsin State University Stevens Point (1971) and his M.S. (1974) and Ph.D. (1976) in Bacteriology from the University of Wisconsin, Madison. His graduate research was on the hot spring bacterium Chloroflexus in the laboratory of Thomas Brock. Following a three-year postdoctoral in the Department of Microbiology, Indiana University, Mike moved to Southern Illinois University Carbondale, where he has been a professor of microbiology for 32 years. He has coauthored Biology of Microorganisms since the

fourth edition (1984) and teaches courses in introductory microbiology, bacterial diversity, and diagnostic and applied microbiology. In 1988 Mike was selected as the Outstanding Teacher in the College of Science and in 1993, the Outstanding Researcher. In 2001 he received the SIUC Outstanding Scholar Award. In 2003 he received the Carski Award for Distinguished Undergraduate Teaching from the American Society for Microbiology. MikeÃ¢â ¬â„¢s research is focused on bacteria that inhabit extreme environments, and for the past 12 years he has studied the microbiology of permanently ice-covered lakes in the McMurdo Dry Valleys, Antarctica. In addition to his research papers, he has edited a major treatise on phototrophic bacteria and served for over a decade as chief editor of the journal Archives of Microbiology. He currently serves on the editorial board of Environmental Microbiology. MikeÃ¢â ¬â„¢s nonscientific interests include forestry, reading, and caring for his dogs and horses. He lives beside a peaceful and quiet lake with his wife, Nancy, five shelter dogs (Gaino, Snuffy, Pepto, Peanut, and Merry), and four horses (Springer, Feivel, Gwen, and Festus). Ã Â John M. Martinko received his B.S. in Biology from Cleveland State University. He then worked at Case Western Reserve University, conducting research on the serology and epidemiology of Streptococcus pyogenes. His doctoral work at the State University of New York at Buffalo investigated antibody specificity and antibody idiotypes. As a postdoctoral fellow, he worked at Albert Einstein College of Medicine in New York on the structure of major histocompatibility complex proteins. Since 1981, he has been in the Department of Microbiology at Southern Illinois University Carbondale where he was Associate Professor and Chair, and Director of the Molecular Biology, Microbiology, and Biochemistry Graduate Program. He retired in 2009, but remains active in the department as a researcher and teacher. His research investigates structural changes in major histocompatibility proteins. He teaches an advanced course in immunology and presents immunology and host defense lectures to medical students. He also chairs the Institutional Animal Care and Use Committee at SIUC. He has been active in educational outreach programs for pre-university students and teachers. For his educational efforts, he won the 2007 SIUC Outstanding Teaching Award. He is also an avid golfer and cyclist. John lives in Carbondale with his wife Judy, a high school science teacher. Ã Â David A. Stahl received his B.S. degree in Microbiology from the University of Washington, Seattle, later completing graduate studies in microbial phylogeny and evolution with Carl Woese in the Department of Microbiology at the University of Illinois, Champaign-Urbana. Subsequent work as a postdoctoral fellow with Norman Pace, then at the National Jewish Hospital in Colorado, focused on early applications of 16S rRNA-based sequence analysis to the study of natural microbial communities. In 1984 Dave joined the faculty at the University of Illinois, Champaign-Urbana, holding appointments in Veterinary

Medicine, Microbiology, and Civil Engineering.Ã Â In 1994 he moved to the Department of Civil Engineering at Northwestern University, and in 2000 returned to his alma mater, the University of Washington, Seattle, as a professor in the Departments of Civil and Environmental Engineering and Microbiology. Dave is known for his work in microbial evolution, ecology, and systematicsÃ¢â ¬â œreceiving the 1999 Bergey Award and the 2006 Procter & Gamble Award in Applied and Environmental Microbiology from the ASM.Ã Â His main research interests are the biogeochemistry of nitrogen and sulfur compounds and the microbial communities that sustain these nutrient cycles.Ã Â His laboratory was first to culture ammonia-oxidizing Archaea, a group now believed to be the main mediators of this key process in the nitrogen cycle.Ã Â He has taught several courses in environmental microbiology, is one of the co-founding editors of the journal Environmental Microbiology, and has served on many advisory committees.Ã Â Outside teaching and the lab, Dave enjoys hiking, bicycling, spending time with family, reading a good science fiction book, and, with his wife Lin, renovating an old farmhouse on Bainbridge Island, Washington. Ã Â David P. Clark grew up in Croydon, a London suburb. He won a scholarship to ChristÃ¢â ¬â„¢s College, Cambridge, where he received his B.A. degree in Natural Sciences in 1973. In 1977 he received his Ph.D. from Bristol University, Department of Bacteriology, for work on the effect of cell envelope composition on the entry of antibiotics into Escherichia coli. He then left England on a postdoctoral studying the genetics of lipid metabolism in the laboratory of John Cronan at Yale University. A year later he moved with the same laboratory to the University of Illinois at Urbana-Champaign. David joined the Department of Microbiology at Southern Illinois University Carbondale in 1981. His research has focused on the growth of bacteria by fermentation under anaerobic conditions. He has published numerous research papers and graduated over 20 Masters and Doctoral students. In 1989 he won the SIUC College of Science Outstanding Researcher Award. In 1991 he was the Royal Society Guest Research Fellow at the Department of Molecular Biology and Biotechnology, Sheffield University, England. In addition to Brock Biology of Microorganisms, David is the author of four other science books: Molecular Biology Made Simple and Fun, now in its fourth edition; Molecular Biology: Understanding the Genetic Revolution; Biotechnology: Applying the Genetic Revolution; and Germs, Genes, & Civilization: How Epidemics Shaped Who We Are Today. David is unmarried and lives with two cats, Little George, who is orange and very nosey, and Mr. Ralph, who is mostly black and eats cardboard. Ã Â

Yes, like any book, this one may have a few things missing. But it does cover all of the standard information necessary for a firm grasp of microbiology. I was thoroughly pleased with the content

and I have been studying microbial biochemistry for years. Though I wished there was more information on bioremediation, I understand why they left it out: I just checked out a book on just mycoremediation techniques and it was well over 800 pages! I was glad that Brock Microbology book successfully covered the general ideas before I leaped into advanced material.Great quality, great format, and excellent interactivity (questions and concept testing) make Brock Biology of Microorganisms a sturdy first step from general biology to the awesome world of microbes.The authors/editors definitely put a lot of thought into this one to make your microbial experience as smooth and enjoyable as possible.

First of all, I am not the type of person who likes to read. That being said, this book is very well written and very easy to understand. For the first time ever in my life, I actually enjoyed reading this book. Even if you're not taking any microbiology class, I'd still recommend this book, if you're interested in science at all.

This book was a bit more technical than my previous General biology book. After a semester of this course, now I see that this is a broad (and I mean broad!), general Microbiology textbook. It opens up the mind to all the variety of applications of the study of microbes and leaves room for many questions that can be tackled in higher level courses.The book has many images, some errors found by one of my professors, but overall a great help in understanding many of the concepts. The book is very colorful to say the least. I used the online website, but I would say that it could be better.The book itself is a wonderful resource and a great start into the study of microbes.

I'm a lower division biochemistry major about to transfer to a University next year. I have to be honest, I took general biology I and II and got "C's" in both because I went in having no biology background. Now I'm teaching myself all the gaps that I didn't have in major's biology. This is the best book I have ever used in self-teaching (and I've used quite a few.) I love chemistry and this book does an excellent job of connecting the fascinating concepts of chemistry (electrochemistry and thermodynamics) to microorganisms. It is very thorough and easy to read if you actually like science.

Bought this knowing it was an older edition, but only used it as quick reference. Covered all of the topics necessary and seems to have 95% of the newest edition. Just a little differently organized.

This book is extremely informative. Being a Microbiology major, having this book handy does wonders. I would recommend this to anyone that will be studying the Microbiology field.

Micro standard that is still a good reference despite being an early edition

Book is very useful. It helps explain certain things my professor usually lecture over pretty fast.NOTE: This is the older edition. It is cheaper than most other places I can buy at.

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