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Note: Cover may not represent an actual copy or condition of an available Stock Image Image Type: Book All Authors/Authors: Michael T Madigan Find more information about: Michael T Madigan ISBN: 9780321649638 032164963X 9780321726759 0321726758 9780321735515 032173551X OCLC Number: 671491817 Language Note: Text in English. Notes: Includes index. Description: xxviii, 1043, pages: illustrations (some color); 29 cm Content: Microorganisms and Microbiology -- A Brief Journey into the Microbial World -- Cell Structure and Function in Bacteria and Archaea -- Nutrition, Microbial Growth -- Microbial Bacteria Biology -- Archangel and Eukaryotic Molecular Biology -- Gene Regulation -- Expression -- Viruses and Virology -- Bacteria and Arachaea Genetics -- Genetic Engineering -- Microbial Genomics -- Phototrophy, Chemolytrotrophy, and Major Biosynthesis -- Organic Compound Catabolics -- Commercial Products and Biotechnology -- Microbial Evolution and Systematics -- Bacteria: Proteobacteria -- Other Bacteria -- Archaea -- Archaea -- Biology of Eukaryotic Cells and Eukaryotic -- Microorganisms -- Viral Diversity -- Techniques in Microbial Ecology -- Major microbial habitats and -- Nutritional Cycles, Biodegradation and Biorecovery -- Microbial symbiosis -- Microbial growth control -- Microbial interactions with humans -- Immunity and host protection -- Immune mechanisms -- Molecular Immunology -- Diagnostic Microbiology and Immunology -- Epidemiology -- Microbial diseases from person to person -- Vector and soil microbial , Water purification, and disease of microbes transmitted through water - Food and food microbial disease conservation - Appendix a : Energy Calculations in Microbial Bioenergy - Appendix b : Bergi's Guide to Systematic Bacteriology, Second Edition: List of Childbirth and Higher Order Of The Duty. Other names: Biology of microorganism responsibility: Michael T. Madigan (et al. More information: This updated, 13th edition includes an evolutionary theme integrated throughout allowing teachers to convey a modern perspective on evolution and giving students material that has been combined in a consistent and thematic context that makes the concept easier to understand. Units 1 and 2 are organized around fundamental topics, providing a review of the course and giving teachers the flexibility to train later units in any order they wish. The unique coverage at Archaeal and Eukaryotic Molecular Biology (Chapter 7) gives instructors material they won't find anywhere else. Illustration and photo program gives students a clear and fascinating view of the microbial world. Illustrations and photographs are often paired in one shape to give students an idealized look next to a realistic look and reinforce the link between theory and practice. Microbial panels, illustrated with vignettes, represent topical material related to the central theme of the chapter. A few new new ones which cover appropriate and advanced techniques including CRISPR antiviral defense system, combinatorial fluoescence markings, bacterial genomes and microbial symbiont fungus-cultivation ants. --Publisher. Michael T. Madigan holds a Bachelor of Biology and Education degree from Wisconsin State University Stevens Point (1971) and a Ph.D. (1976) in bacteriology from the University of Wisconsin, Madison. His graduation studies were on the hot spring bacteria Chloroflexus in Thomas Brock's lab. After a three-year postdoctoral professor at the Department of Microbiology at Indiana University, Mike moved to the University of Southern Illinois Carbondale, where he was a professor of microbiology for 32 years. He has co-authored the biology of microorganisms since the fourth edition (1984) and teaches courses in introductory microbiology, bacterial diversity, diagnostics and applied microbiology. In 1988, Mike was selected as an outstanding teacher at the College of Science and in 1993 as an outstanding researcher. In 2001, he received the SIUC Award for Excellence in Scientists. In 2003, he received the Karski Award for distinguished education for students of the American Society of Microbiology. Mike's research focuses on bacteria that inhabit extreme environments, and for the past 12 years he has studied the microbiology of permanently ice-covered lakes in the arid valleys of McMurdo, Antarctica. In addition to his scientific work, he edited a major treatise on phototrophic bacteria and served for more than a decade as editor-in-chief of the journal Archives of Microbiology. He is currently a member of the editorial board of environmental microbiology. Mike's unscientific interests include forestry, reading and caring for his dogs and horses. He lives near 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). John M. Martinko holds a Bachelor of Biology degree from Cleveland State University. He then worked at Case Western Reserve University, conducting research on the serology and epidemiology of streptococcal piogen. His doctorate at New York State University in Buffalo investigated the specificity of antibodies and idiot antibodies. As a doctoral student, he worked at the Albert Einstein College of Medicine in New York on the structure of the main complex proteins of histocompany. Since 1981, he has worked in the Department of Microbiology at the University of Southern Illinois Carbondale, where he was associate professor and chairman, as well as Director of Molecular Biology, Microbiology and Biochemistry of the Higher Program. He retired in 2009, but is still active in the department as a researcher and teacher. His research explores structural changes in the main proteins of histocomponability. He teaches advanced immunology and presents immunology and lectures on defense for He also heads the Institutional Animal Care Use the Committee at SIUC. He is active in educational outreach programs for students and teachers of the University of Dozuz. 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 science teacher in high school. David A. Stahl holds a bachelor's degree in microbiology from the University of Washington, Seattle, later completing a postgraduate degree in microbial phylogeny and evolution with Carl Woese in the Department of Microbiology at the University of Illinois, Champaign-Urbana. Subsequent work as a graduate student with Norman Pace, then at the National Jewish Hospital in Colorado, focused on the early application of sequence analysis based on 16S rRNA to study natural microbial communities. In 1984, Dave joined the Faculty of the University of Illinois at Champaign-Urban, where he was appointed to positions in veterinary, microbiology and civil engineering. In 1994, he joined northwester's 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 systematics, receiving the 1999 Bergi Award and the 2006 Procter s Gamble Award in Applied and Environmental Microbiology from ASM. Its main research interests are biogeochemistry of nitrogen and sulphur compounds and microbial communities that support these nutritional cycles. His laboratory was the first culture of ammonia oxidation Archaea, a group now considered the main mediator of this key process in the nitrogen cycle. He has taught several courses in environmental microbiology, is co-founder of the journal Environmental Microbiology, and has served on many advisory committees. Outside of teaching and labs, Dave enjoys hiking, cycling, spending time with his family, reading a good science fiction book, and, with his wife Leanne, renovating an old farmhouse on Bainbridge Island, Washington. David Clark grew up in Croydon, a suburb of London. He received a scholarship to Christ College in Cambridge, where he received his Bachelor of Science degree in 1973. In 1977, he received his doctorate from the University of Bristol, Faculty of Bacteriology, for his work on the effect of the composition of the cell envelope on the supply of antibiotics to E. coli Escherichia. He then left England for a postdoctoral study of lipid metabolism genetics at John Cronan's laboratory at Yale University. A year later, he moved with the same lab to the University of Illinois at Urbana-Champaign. David enrolled in the Department of Microbiology at the University of Southern Illinois Carbondale in 1981. His research focused on the growth of bacteria by fermentation in anaerobic conditions. He has published many scientific papers and graduated from more than 20 masters and doctoral students. In 1989 he Премия SIUC College of Science Outstanding Researcher Award. In 1991, he was a visiting fellow at the Royal Society in the Department of Molecular Biology and Biotechnology at the University of Sheffield, England. In addition to Brock Biology of Microorganisms, David is the author of four other scientific books: Molecular Biology Made Simple and Fun, now in his fourth edition; Molecular Biology: Understanding the Genetic Revolution; Biotechnology: Applying the Genetic Revolution; and microbes, genes, and civilization: how epidemics have shaped who we are today. David is single and lives with two cats, Little George, who is orange and very nasal, and Mr. Ralph, who is mostly black and eats cardboard. 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