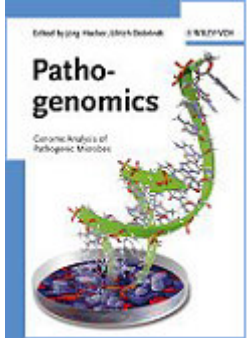


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Sampling and Analysis of Indoor Microorganisms

by Chin S. Yang, and Patricia Heinsohn

Investigation techniques and analytical methodologies for addressing microbial contamination indoors

Microbial contamination indoors is a significant environmental and occupational health and safety problem. This book provides fundamental background information on fungal and bacterial growth indoors as well as in-depth, practical approaches to analyzing and remedying problems. The information helps investigators, laboratory managers, and environmental health professionals properly use state-of-the-science methods and correctly interpret the results. With chapters by expert microbiologists, mycologists, environmental professionals, and industrial hygienists, *Sampling and Analysis of Indoor Microorganisms* is a multidisciplinary, comprehensive reference on advanced approaches, covering:

- Microbiological problems in a water-damaged environment
- Indoor construction techniques and materials that impact environmental microbiology
- Microbial ecology indoors, airborne bacteria, genetic-based analytical methods, and statistical tools for microorganism analysis
- Microbiological sampling approaches
- Mold removal principles and methods, including specialized microbial remediation techniques for HVAC systems, legionellas and biofilms, and sewage contamination
- A forensic approach toward the assessment of fungal growth in the indoor environment

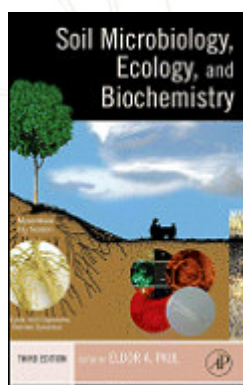
A must-have guide for practicing professionals, including environmental health and safety personnel, public health officials, and building and construction engineers and architects, this is also a valuable reference for attorneys, home inspectors, water restoration personnel, mold remediation contractors, insurance adjusters, and others.

Cat. # JW-MBIO1 273 pages ISBN: 9780471730934 HARDCOVER

Soil Microbiology, Ecology and Biochemistry 3e

by Paul Eldor

This revised and updated edition guides students through biochemical and microbial processes in soils and introduces them to microbial processes in water and sediments. This classic book includes basic concepts and applications in agriculture, forestry, ecology, and environmental science. It is also an invaluable resource for research in biogeochemistry, microbiology, sustainable agriculture, and environmental amelioration. The Third Edition has been expanded from 13 to 19 chapters including such topics as bioremediation, molecular biology of soil, biodiversity of soil organisms, and the impact of global climate change on soil microhabitats. Furthermore, the lead author has decided to recruit contributed chapters from leading soil microbiologists and agronomists.



Cat. # EL-MBIO1 400 pages ISBN: 9780125468077 HARDCOVER

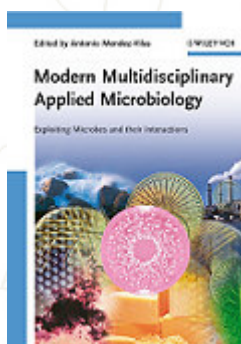
Modern Multidisciplinary Applied Microbiology: Exploiting Microbes and Their Interactions

by Antonio Mendez-Vilas

Indexed and cross-referenced interdisciplinary contributions provide an integrated view of the this thriving and important field, with reports on key research from the frontiers of applied microbiology. Topics include food, environmental, industrial, pharmaceutical, medical, bioinformatics and education sciences.

Table of Contents:

1. Environmental Microbiology, Marine Microbiology, Water/Aquatic Microbiology, Geomicrobiology
2. Industrial Microbiology - Future Bioindustries
3. Food Microbiology
4. Agriculture, Soil, Forest Microbiology
5. Bioremediation
6. Microbial Biotechnology
7. Microfactories - Microbial Production of Chemicals, Pharmaceuticals and Biopolymers
8. Medical Microbiology
9. Microbial Physiology, Metabolism and Gene Expression
10. Analytical Techniques, Imaging Techniques, Microscopy
11. Methods in Basic and Applied Microbiology. Microbiology Education



Cat. # JW-MBIO2 820 pages ISBN: 9783527316113 HARDCOVER

Pathogenomics, Genome Analysis of Pathogenic Microbes

by Jörg Hacker, Ulrich Dobrindt, and Werner Göbel

The first book on this young, highly dynamic, and expanding field.

This comprehensive, interdisciplinary text focuses on those pathogenic bacteria that are of high scientific and public health interest, yet which also display great potential for the development of new diagnostic, prophylactic and therapeutic procedures.

The authors cover all aspects of pathogenomics, including methods, genomics and applications. In addition, the ongoing development of genome, transcriptome, proteome and bioinformatic analyses of pathogenic microorganisms and their host interactions makes for a comprehensive introduction to the field of modern genomic analysis. This result is invaluable to researchers and students wishing to gain a general overview of microbial functional genome analysis and pathogenesis, while also representing a good starting point for those new to the area.

Cat. # JW-MBIO3 616 pages ISBN: 9783527312658 HARDCOVER

Wastewater Microbiology (Ed.3)

by Gabriel Bitton

The new edition of a classic reference incorporating
the latest findings and discoveries

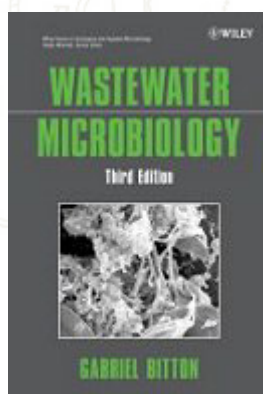
The Third Edition of this classic reference provides readers with concise, up-to-the-moment coverage of the role of microorganisms in water and wastewater treatment. By providing a solid foundation in microbiology, microbial growth, metabolism, and nutrient cycling, the text gives readers the tools they need to make critical decisions that affect public health, as well as the practical aspects of treatment, disinfection, water distribution, bioremediation, and water and wastewater reuse.

The publication begins a discussion of microbiology principles, followed by a discussion of public health issues and concerns. Next, the core of the text is dedicated to a thorough examination of wastewater and drinking water treatment, biosolids, pollution-control biotechnology, and drinking water distribution. The remainder of the text discusses toxicity testing in wastewater treatment plants, and the public health aspects of wastewater disposal and reuse. The many advances in wastewater and drinking water microbiology have all been thoroughly integrated into the publication, including:

- A new chapter on bioterrorism and drinking water safety
- The latest developments in biofilm microbial ecology and biofilm impact on drinking water quality
- New, state-of-the-art detection techniques
- Expanded and revised treatment of toxicity testing, including new testing methods and studies on endocrine disruptors in wastewater
- Alternatives to conventional wastewater treatment

New problem sets, which test readers' knowledge, as well as a list of Internet resources have been added to each chapter. In addition, the publication's extensive references have been thoroughly revised for readers who would like to learn more about the latest findings and discoveries on specialized topics. Finally, the color plate section has been expanded and contains many new illustrations and tables.

An authoritative guide for all researchers, administrators, and engineers in the field of microbiology, *Wastewater Microbiology, Third Edition* is also a valuable reference for civil and environmental engineers, public health officials, and students involved in environmental engineering and science.



Cat. # JW-MBIO4 768 pages ISBN: 9780471650713 HARDCOVER

Microbial Proteomics, Functional Biology of Whole Organisms

by Ian Humphery-Smith, and Michael Hecker

Discover important lessons learned about whole organism biology via microbial proteomics

This text provides an exhaustive analysis and presentation of current research in the field of microbial proteomics, with an emphasis on new developments and applications and future directions in research. The editors and authors show how and why the relative simplicity of microbes has made them attractive targets for extensive experimental manipulation in a quest for both improved disease prevention and treatment and an improved understanding of whole organism functional biology.

In particular, the text demonstrates how microbial proteomic analyses can aid in drug discovery, including identification of new targets, novel diagnostic markers, and lead optimization.

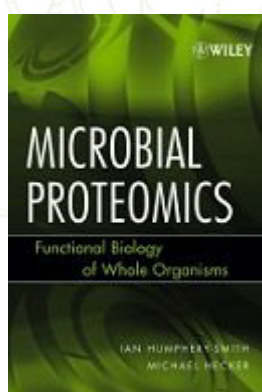
Each chapter is written by one or more leading experts in the field and carefully edited to ensure a consistent and thorough approach throughout. Methods, technologies, and tools associated with the most promising approaches are stressed.

Key topics covered include:

- Microbial pathogenesis at the proteome level
- Whole cell modeling
- Structural proteomics and computational analysis
- Biomolecular interactions
- Physiological proteomics
- Metabolic reconstruction using proteomics data

While presenting the practical utility of proteomics data, the text is also clear on the field's current limitations, pointing to areas where further investigation is needed.

Offering a state-of-the-art perspective from internationally recognized experts, this text is ideally suited for researchers and students across the gamut of genomic sciences, including biochemistry, microbiology, molecular biology, genetics, biomedical and pharmaceutical sciences, biotechnology, and veterinary science.



Cat. # JW-MBIO5 512 pages ISBN: 9780471699750 HARDCOVER

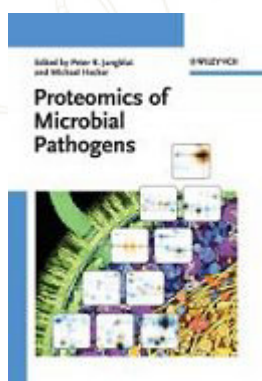
Proteomics of Microbial Pathogens

by Peter R. Jungblut, and Michael Hecker

Containing proven, high-quality research articles selected from the popular Proteomics journal, this is a current overview of the latest research into the proteomics analysis of microbial pathogens as well as several review articles.

Table of Contents:

1. Proteomics of microbial pathogens
2. Genome and proteome analysis of Chlamydia
3. Helicobacter pylori vaccine development based on combined subproteome analysis
4. A comprehensive proteome map of growing Bacillus subtilis cells
5. A targeted proteomics approach to the rapid identification of bacterial cell mixtures by matrix-assisted laser desorption/ionization mass spectrometry
6. Proteome analysis of Neisseria meningitidis serogroup A
7. Protein identification and tracking in two-dimensional electrophoretic gels by minimal protein identifiers
8. Continued proteomic analysis of Mycobacterium leprae subcellular fractions
9. CFP10 discriminates between nonacetylated and acetylated ESAT-6 of Mycobacterium tuberculosis by differential interaction
10. The Helicobacter pylori CagA protein induces tyrosine dephosphorylation of ezrin
11. Action and Reaction: Chlamydomonas pneumoniae proteome alteration in a persistent infection induced by iron deficiency
12. Assessment of protein spot components applying correspondence analysis for peptide mass fingerprint data
13. Presentation of differentially regulated proteins within a web-accessible proteome database system of microorganisms
14. The cell wall subproteome of Listeria monocytogenes
15. Low virulent strains of Candida albicans: Unravelling the antigens for a future vaccine
16. Proteomic analysis of the sarcosine-insoluble outer membrane fraction of the bacterial pathogen Bartonella henselae
17. The influence of agr and B in growth phase dependent regulation of virulence factors in Staphylococcus aureus
18. Comparative proteome analysis of cellular proteins extracted from highly virulent Francisella tularensis ssp. tularensis and less virulent F. tularensis ssp. holarctica and F. tularensis ssp. mediaasiatica
19. Proteome comparison of Vibrio cholerae cultured in aerobic and anaerobic conditions
20. Highly phosphorylated bacterial proteins
21. Induction of Mycobacterium avium proteins upon infection of human macrophages
22. Proteomics-based identification of novel Candida albicans antigens for diagnosis of systemic candidiasis in patients with underlying hematological malignancies



Cat. # JW-MBIO6 343 pages ISBN: 9783527317592 HARDCOVER

Microbial Functional Genomics

by Jizhong Zhou, Dorothea K. Thompson, Ying Xu, and James M. Tiedje

Microbial Functional Genomics offers a timely summary of the principles, approaches, and applications. It presents a comprehensive review of microbial functional genomics, covering microbial diversity, microbial genome sequencing, genomic technologies, genome-wide functional analysis, applied functional genomics, and future directions. An introduction will offer a definition of the field and an overview of the historical and comparative genomics aspects.

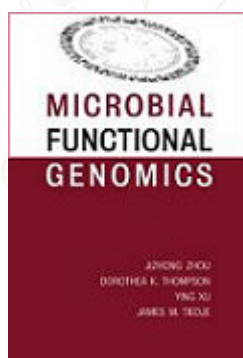
About the Author:

Jizhong Zhou is a Staff Scientist and science leader for the Microbial Genomics and Ecology section in the Environmental Sciences Division of Oak Ridge National Laboratory. He is the author of more than 50 publications on molecular biology, microbial genomics, molecular evolution, microbial ecology, bioremediation, and theoretical ecology.

Ying Xu is the group leader of the computational protein structure group of Life Sciences Division of Oak Ridge National Laboratory. He serves on a number of scientific review committees including the NIH review panel on structural genomics.

James M. Tiedje is University Distinguished Professor of Microbial Ecology and Director of the National Science Foundation Center for Microbial Ecology at Michigan State University. He is a Fellow of ASA, SSSA, AAAS, the International Institute of Biotechnology and a Fellow of the American Academy of Microbiology.

Dorothea Thompson is currently a Research Staff Scientist in the Environmental Sciences Division at Oak Ridge National Laboratory (ORNL), working in the area of microbial functional genomics. She received her Ph.D. in molecular microbiology from The Ohio State University (Columbus, OH) and master's degrees from Virginia Tech and the Pennsylvania State University. Dr. Thompson pursued postdoctoral training in bacterial pathogen typing and vaccine development at the U. S. Food and Drug Administration in Bethesda, Maryland, and in DNA microarray-based gene expression analysis at ORNL before becoming a staff member in 2002. Her research interests and expertise focus on the mechanisms of transcription regulation in prokaryotic systems and the use of genomic technologies, specifically DNA microarrays, to describe the molecular basis underlying cellular adaptation to environmental stresses.



Cat. # JW-MBIO7 624 pages ISBN: 9780471071907 HARDCOVER

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JW-MBIO7 Microbial Functional Genomics	624 pages....	\$151.95 \$138.15
EL-MBIO1 Soil Microbiology, Ecology and Biochemistry 3e	400 pages....	\$111.00 \$100.90

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