

MICROBIAL GLYCOBIOLOGY

Structures, Relevance and Applications

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- Contributions by leading international scientists in the field yield insightful, concise and stimulating reviews
 - Includes in-depth coverage of bacteria, viruses, fungi and protozoa
 - Spans aspects of molecular biology, microbiology, immunology, and analytical and synthetic chemistry
 - Highlights areas for future research and development and commercial applications

Microbial glycobiology, the study of carbohydrates as related to the biology of microorganisms, is a multidisciplinary field with applications and implications in biomedicine, environmental science, synthetic and analytical chemistry, and biotechnology including pharmaceuticals. This book introduces readers from these various fields to the nature, structure, function and recognition of glycosylated components of microorganisms. Original in its coverage of bacteria, viruses, fungi and protozoa, this volume also discusses the genetics and biosynthesis of microbial glycomolecules and the ability to chemically synthesize such molecules. The multidisciplinary nature of the subject matter is underscored by the distinction of five sections which encompass the extent of the science, contributions from experts in chemistry, molecular biology, microbiology, immunology, and biomedicine, and current research which accents each chapter.

ELSEVIER RELATED TITLES

Handbook of Glycomics • Cummings • 978012373600 • 2009

Bioconjugate Techniques 2nd Ed. • Hermanson • 978012370501 • 2008

Comprehensive Glycoscience, 4 Vol. set • Kamerling • 9780444527462 • 2007



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