



Streptomyces: Molecular Biology and Biotechnology

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Streptomyces are unusually complex bacteria that are abundant in soil. They grow as branching filaments and form chains of spores. Most importantly, they have an extraordinary ability to make antibiotics, for which they are the main industrial source, as well as other metabolites with medicinal properties. In recent years, the search for new antibiotics and other drugs in streptomyces has been augmented by genomic studies, genome mining, and new biotechnological approaches. With contributions from some of the leading scientists in the field, this book documents recent research and development in streptomyces genomics, physiology, and metabolism. With a focus on biotechnology and genomics, the book provides an excellent source of up-to-date information. Topics include: genome architecture * conjugative genetic elements * differentiation * protein secretion * central carbon metabolic pathways * regulation of nitrogen assimilation * phosphate control of metabolism * gamma-butyrolactones and their role in antibiotic regulation * clavulanic acid and clavams * genome-guided exploration * gene clusters for bioactive natural products * genomics of cytochromes p450. The book is essential reading for research scientists, biotechnologists, graduate students, and other professionals involved in streptomyces research, antibiotic and antimicrobial development, drug discovery, soil microbiology and related fields. It is a recommended text for all microbiology laboratories.

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