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Exploitation of Bacteriophage Packaging for DNA Cloning in Plasmid Vectors
Screening of Plasmid Clones in Bacteria for the Desired Recombinant Plasmids; Vector-Implemented Systems for the Direct Selection of Recombinant Plasmids; Direct Selection of Recombinant Plasmids Involving Restriction Enzyme Digestion of the Ligation Mixture; Particular Features of Oligonucleotides' Cloning; Particular Features of Cloning of PCR Amplicons; Introduction of Deletions into Plasmids; DNA Cloning Using Site-Specific Recombination; DNA Cloning Using Homologous (General) Recombination
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Conclusion; References; Relevant Websites; Structure and Biosynthesis of Glycoprotein Carbohydrates; Introduction; Monosaccharide Structure; Oligosaccharide Structure; Biosynthesis of Glycoproteins; Glycosylation of Therapeutic Glycoproteins; References; Relevant Websites; Nucleotide Metabolism; Introduction; Purine Biosynthesis; Pyrimidine Biosynthesis; Nucleoside Triphosphate Formation; Deoxyribonucleotide Biosynthesis; Nucleotide Salvage; Purine and Pyrimidine Catabolism
Regulation of Gene Expression in Bacterial Nucleotide Synthesis

Sommario/riassunto

The second edition of Comprehensive Biotechnology continues the tradition of the first inclusive work on this dynamic field by presenting up-to-date and essential entries on the principles and practice of biotechnology. The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world-leaders in their given fields. With two volumes covering basic fundamentals, and four volumes of applications, from environmental biotechnology and safety to medical biotechnology and healthcare, t
