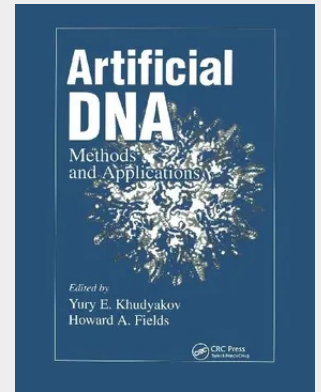


Artificial DNA

Methods and Applications

Combining elements of biochemistry, molecular biology, and immunology, artificial DNA can be employed in a number of scientific disciplines. Some of the varied applications include site-specific mutagenesis, hybridization, amplification, protein engineering, anti-sense technology, DNA vaccines, protein vaccines, recombinant antibodies, screening for genetic and pathogenic diseases, development of materials with new biochemical and structural properties, and many more. Artificial DNA: Methods and Applications introduces the concept of artificial DNA that has been rationally designed and explains how it may be exploited in order to develop products that will achieve your intended purpose. The first part of the book covers methods of oligonucleotide synthesis and direct applications of synthetic DNA. The second part describes methods of gene assembly from synthetic oligonucleotides and applications of synthetic genes. The authors also discuss the different trends and future developments within each application area. With state-of-the-art research, the contributing authors describe how to engineer proteins using rational and semi-rational design to exhibit the desired traits and detail the various amplification reactions and hybridization techniques for modeling evolution and for use in basic research. The only text devoted to this subject, Artificial DNA offers a comprehensive review that allows you to understand the strategy, design, and applications of synthetic oligonucleotides.



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