



The Nucleic Acid Protocols Handbook (Methods in Molecular Biology)

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There can be no doubt that some of the most spectacular advances made in science over the past few decades have been in the isolation, analysis, and manipulation of nucleic acids. This has led to a much greater understanding of mechanisms and processes across many fields of bioscience, such as biochemistry, microbiology, physiology, pharmacology, and the medical sciences to name a few. It has also led to the growth of the biotechnology industry, which seeks to develop and commercialize many of these important processes and methods. Much of this has come about because of the development of numerous molecular biology and genetic manipulation techniques. The discovery of restriction enzymes and the development of cloning vectors in the early 1970s opened the door to ways of isolating and manipulating nucleic acids that had never been thought possible. Gene probe labeling and hybridization were developed and refined to provide powerful methods of analysis. These, together with the development of DNA sequencing methods, protein engineering techniques, and PCR, have all continued to contribute substantially to the understanding of biological processes at the molecular level. The protocols for these important methods are the focus of The Nucleic Acid Protocols Handbook, whose aim is to provide a comprehensive set of techniques in one volume that will enable the isolation, analysis, and manipulation of nucleic acids to be readily undertaken. The Nucleic Acid Protocols Handbook is divided into 10 parts; within each there are approximately 10 chapters. The first four parts follow one another logically: nucleic acid extraction (Part I), basic separation and analysis of DNA (II), through probe design and labeling (III), and RNA analysis techniques (IV). The following three sections deal with gene library construction and screening (V), DNA sequencing (VI), and the polymerase chain reaction (VII).

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