

PCR Technology



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In the decade since the publication of the bestselling first edition, Polymerase Chain Reaction (PCR) technology has been at the forefront of dramatic developments in biochemistry. Many exciting advances have been made in this specialized field of DNA analysis and a large number of commercial kits and additives are now available. There has never been a better time for a comprehensive resource covering the current range of PCR strategies and uses. "PCR Technology: Current Innovations, Second Edition" is a fundamental reference for scientists new to PCR technology and a source of up-to-date applications for those familiar with the method. It provides theoretical considerations, discussions, and a selection of state-of-the-art techniques for mutation studies, clinical diagnosis, and the detection of food-borne pathogens. The book begins with discussions of the preparation of PCR experiments, followed by examples of analytical PCR divided into qualitative and quantitative applications. The final section explores preparative methods addressing DNA generation for further analysis and in vitro evolution. Featuring detailed presentations of PCR protocols, this volume contains critical information for practitioners in a wide variety of fields, including forensics, molecular biology research, clinical DNA diagnostics, botany, and paleontology. It provides the essential tools for developing innovative approaches in this leading technology of the genomics revolution.

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