

SECOND EDITION

PCR TECHNOLOGY

Current Innovations

Featuring breakthroughs in PCR technology and applications developed since the publication of the bestselling first edition, **PCR Technology: Current Innovations, Second Edition** provides the essential tools for developing innovative approaches to using this leading technology of the genomics revolution. The book includes theoretical considerations, discussions, and a selection of state-of-the-art techniques for mutation studies, clinical diagnosis, and the detection of food-borne pathogens. With detailed presentations of PCR protocols, this new edition discusses the preparation of PCR experiments, includes examples of analytical PCR divided into qualitative and quantitative applications, and explores preparative methods that address DNA generation for further analysis and *in vitro* evolution.

Features

- Provides up-to-date, essential information on PCR technology and applications
- Covers a selection of widely used procedures and approaches for qualitative as well as quantitative queries
- Explains parameters governing PCR reaction outcomes
- Presents easy-to-follow, step-by-step protocols
- Includes primer design, enzyme choices, precautions to avoid false positives, and more

Covering the current range of PCR strategies and uses, this volume is a fundamental reference for scientists new to PCR technology and a source of up-to-date applications for those familiar with the basic methods. It contains critical information for practitioners in a wide variety of fields; including forensics, molecular biology, clinical DNA diagnostics, botany, and paleontology.

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