



## Clinical Applications of PCR (Methods in Molecular Biology)

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In this updated second edition, leading researchers apply molecular diagnostics to the many recent advances that have occurred in polymerase chain reaction (PCR)-based technologies. Highlights include real-time PCR, which allows the technique to be performed in a quantitative manner with improved sensitivity, robustness, and resilience to carryover contamination, mass spectrometric analysis of nucleic acids, and circulating cell-free nucleic acids in plasma. The authors apply these innovations to a broad spectrum of applications, including gene expression, methylation, trace molecule, gene dosage, and single cell analysis.

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### Bibliography

- Rank: #3779367 in Books
- Brand: Brand: Humana Press
- Published on: 2006-03-01
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .50" w x 6.14" l, 1.20 pounds
- Binding: Hardcover
- 200 pages



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### Editorial Review

#### Review

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"...will be an important laboratory resource to those using PCR in the diagnosis of human diseases and should be of great interest to both molecular and clinical pathologists." -Archives of Pathology and Laboratory Medicine

"Each chapter is clearly written and provides enough background material to explain the significance and application of the procedure. The protocols include sufficient detail to enable the reader to develop the test. This manual will be an important laboratory resource to those using PCR in the diagnosis of human diseases and should be of great interest to both molecular and clinical pathologists." -Archives of Pathology and Laboratory Medicine

"...a unique document that will be welcome in the clinical laboratory as well as the research field." -Doody's Health Sciences Book Review Journal

"This book is pitched at both pathologists and microbiologists who use PCR in a diagnostic setting. It provides a user-friendly and relatively brief theoretical background to conventional and real-time PCR . . . . This book should appeal to professional laboratory scientists and students . . . as well as to more experienced individuals who want to use or extend specific applications. This book would be a useful purchase as a reference source and technical manual for diagnostic pathology and microbiology laboratories." (David Hampson, SGM- Society for General Microbiology, 2007)

#### From the Back Cover

In this updated second edition of the much praised Clinical Applications of PCR, leading researchers apply molecular diagnostics to the many recent advances that have occurred in polymerase chain reaction (PCR)-based technologies. Highlights include real-time PCR, which allows the technique to be performed in a quantitative manner with improved sensitivity, robustness, and resilience to carryover contamination, mass spectrometric analysis of nucleic acids, and circulating cell-free nucleic acids in plasma. The authors apply these innovations to a broad spectrum of applications, including gene expression, methylation, trace molecule, gene dosage, and single cell analysis. The protocols follow the successful Methods in Molecular Biology™ series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls.

State-of-the-art and highly practical, Clinical Applications of PCR, Second Edition, will help today's laboratorians and researchers working in molecular diagnostics harness the power of these techniques with unprecedented sensitivity and ease.

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**Joshua Stamper:**

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