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Carl Wittwer
Franklin Cockerill
(Eds.)

Rapid Cycle Real-Time PCR

Methods and Applications

*Microbiology and
Food Analysis*



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Rapid Cycle Real Time Pcrmethods And Applications

S. Meuer,C. Wittwer,K. Nakagawara



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Rapid Cycle Real-Time PCR S. Meuer, C. Wittwer, K. Nakagawara, 2012-12-06 The first comprehensive treatise on Rapid Cycle Real Time PCR With amplification times of 15 30 minutes of on line detection and analysis nucleic acid quantification of mutation analysis finally becomes a routine powerful and rapid method Focusing primarily on the LightCycler an instrument that combines Rapid Cycle PCR with fluorescent monitoring this technology provides convenient analysis by melting temperatures PCR products can be identified by product T_m and single base mismatches can easily be genotyped by probe T_m Methods chapters detail the theory behind quantification of mutation analysis the design of synthesis of fluorescent hybridization probes of the preparation of template DNA Application chapters apply nucleic acid quantification to infectious organisms of intracellular messengers and mutation detection to somatic of acquired mutations

Rapid Cycle Real-Time PCR — Methods and Applications Carl Wittwer, Meinhard Hahn, Karen Kaul, 2012-12-06 Rapid cycle real time PCR is a powerful technique for nucleic acid quantification and analysis that takes less than 30 minutes to complete Fluorescence is automatically monitored each cycle and the amount of template quantified by advanced analytical methods such as the second derivative maximum method Immediately following rapid cycle PCR melting curve analysis is performed to verify product purity with SYBR Green I and or genotype with fluorescently labeled hybridization probes HybProbes or SimpleProbes Rapid cycle real time PCR is often cited as the most versatile efficient method for nucleic acid quantification in research and clinical studies Molecular analysis has never been easier

Rapid Cycle Real-Time PCR — Methods and Applications U. Reischl, C. Wittwer, F. Cockerill, 2012-12-06 Rapid Cycle Real Time PCR is a powerful analytical tool with broad application for the basic and applied life sciences Compared with conventional PCR technology Rapid Cycle Real Time PCR is faster has greater specificity and is more easily adaptable for a variety of diagnostic tests including qualitative quantitative and mutation detection assays This book provides general overviews of this technology for use in the clinical microbiology laboratory as well as specific diagnostic protocols for the detection of viral bacterial and fungal pathogens and genetically modified organisms in human specimens and foodstuffs All of these protocols have been developed verified and validated by experts in the field and should be of great interest for clinical microbiologists pathologists laboratory technologists as well as practicing physicians

Rapid Cycle Real-Time PCR — Methods and Applications W. Dietmaier, C. Wittwer, N. Sivasubramanian, 2013-06-29 Rapid Cycle Real Time PCR is a powerful technique for nucleic acid amplification and analysis that often requires less than half an hour to perform Samples are amplified by rapid cycle PCR followed by immediate melting curve analysis in the same instrument Melting curve analysis of PCR products with SYBR Green I often allows product identification without gel electrophoresis Furthermore in the presence of fluorescent hybridization probes melting curves provide dynamic dot blots for fine sequence analysis including single nucleotide polymorphisms SNPs The method is often cited as the most versatile efficient method for nucleic acid analysis in research

and diagnostics in the fields of genetics and oncology Molecular diagnostics has never been easier

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Real-time PCR M Tevfik Dorak, 2007-02-08 With a variety of detection chemistries an increasing number of platforms multiple choices for analytical methods and the jargon emerging along with these developments real time PCR is facing the risk of becoming an intimidating method especially for beginners Real time PCR provides the basics explains how they are exploited to run a real time PCR assay how the assays are run and where these assays are informative in real life It addresses the most practical aspects of the techniques with the emphasis on how to do it in the laboratory Keeping with the spirit of the Advanced Methods Series most chapters provide an experimental protocol as an example of a specific assay

Clinical Applications of PCR Y. M. Dennis Lo, 2008-02-04 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

Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book Carl A. Burtis, Edward R. Ashwood, David E. Bruns, 2011-12-16 As the definitive reference for clinical chemistry Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 5th Edition offers the most current and authoritative guidance on selecting performing and evaluating results of new and established laboratory tests Up to date

encyclopedic coverage details everything you need to know including analytical criteria for the medical usefulness of laboratory procedures new approaches for establishing reference ranges variables that affect tests and results the impact of modern analytical tools on lab management and costs and applications of statistical methods In addition to updated content throughout this two color edition also features a new chapter on hemostasis and the latest advances in molecular diagnostics Section on Molecular Diagnostics and Genetics contains nine expanded chapters that focus on emerging issues and techniques written by experts in field including Y M Dennis Lo Rossa W K Chiu Carl Wittwer Noriko Kusukawa Cindy Vnencak Jones Thomas Williams Victor Weedn Malek Kamoun Howard Baum Angela Caliendo Aaron Bossler Gwendolyn McMillin and Kojo S J Elenitoba Johnson Highly respected author team includes three editors who are well known in the clinical chemistry world Reference values in the appendix give you one location for comparing and evaluating test results NEW Two color design throughout highlights important features illustrations and content for a quick reference NEW Chapter on hemostasis provides you with all the information you need to accurately conduct this type of clinical testing NEW Six associate editors lend even more expertise and insight to the reference NEW Reorganized chapters ensure that only the most current information is included

Real-Time PCR Kirstin J. Edwards, Julie M. J. Logan, Nick A. Saunders, 2004

Analysis of Growth Factor Signaling in Embryos Malcolm Whitman, Amy Sater, 2006-08-15 Developmental biologists have been driven to investigate growth factor signaling in embryos in order to understand the regulatory mechanisms underlying a given developmental process Thus it is critical to explore the technical methods and experimental designs for growth factor signaling in embryos Focusing on specific pathways or pathway comp

The PCR Revolution Stephen A. Bustin, 2009-11-16 The invention of the polymerase chain reaction PCR won the Nobel Prize in Chemistry in 1994 and remains one of the most important scientific discoveries of the twentieth century More than 50 000 researchers in the United States use PCR replication technology yet there is a significant absence of any recent publications on this subject In this book Dr Stephen A Bustin a world renowned PCR expert examines in detail the latest innovations and the overall impact of PCR on many areas of molecular research The book contains personal reflections opinions and comments by leading authorities on the many applications of the PCR and how this technology has revolutionised their respective areas of interest Bustin explains the ways in which PCR has overcome many obstacles in life science and clinical research and charts the PCR s development from time consuming low throughput non quantitative procedure to today s rapid high throughput quantitative super method

Manual of Environmental Microbiology Cindy H. Nakatsu, Robert V. Miller, Suresh D. Pillai, 2020-08-11 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact

on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology

Brewing C Bamforth, 2006-08-09 Brewing continues to be one of the most competitive and innovative sectors in the food and drink industry This important book summarises the major recent technological changes in brewing and their impact on product range and quality The first group of chapters review improvements in ingredients including cereals adjuncts malt and hops as well as ways of optimising the use of water The following sequence of chapters discuss developments in particular technologies from fermentation and accelerated processing to filtration and stabilisation processes as well as packaging A final series of chapters analyse improvements in safety and quality control covering such topics as modern brewery sanitation waste handling quality assurance schemes and control systems responsible for chemical microbiological and sensory analysis With its distinguished editor and international team of contributors Brewing new technologies is a standard reference for R D and Quality Assurance managers in the brewing industry Summarises the major recent technological changes in brewing Reviews improvements in ingredients including cereals malts and hops Discusses developments in fermentation filtration and packaging technologies

Molecular Pathology in Clinical Practice Debra G.B. Leonard, 2007-11-25 Molecular Pathology In Clinical Medicine is an authoritative comprehensive textbook that provides the general pathologist in clinical practice as well as residents and fellows during their training with the current standard in molecular testing The text is divided into 8 sections as defined by the molecular pathology specialty board genetics inherited cancers infectious disease neoplastic hematopathology solid tumors HLA typing identity testing and laboratory management The book integrates the latest advancements in the field with the basic principles and practical applications Each chapter discusses the clinical significance of each diagnostic test available assays quality control and lab issues interpretation and reasons for testing Chapters cover such topics as HIV herpes hepatitis deafness developmental disorders bioterrorism warfare organisms lymphomas breast cancer and melanoma forensics parentage and much more 189 illustrations 45 of them in full color illustrate the principles outlined in the text This textbook is a classic in the making and a must have reference to meet the needs of every pathologist resident and fellow

Methodologies and Results in Grapevine Research Serge Delrot, Hipólito Medrano, Etti Or, Luigi Bavaresco, Stella

Grando,2010-10-19 Grapevine is a crop of major economical interest and wine represents a multicultural heritage which has been growing since several milleniums Yet modern viticulture must face several challenges Global climate has increased berry sugar content and alcohol in the wine whereas phenolic and aromatic ripeness are not always achieved Water supply is becoming shorter New varieties better adapted to new climatic conditions might have to be planted which may affect wine typicity Phytochemical treatments are more controlled and the consumer pays increasing attention to environmentally safe practices New methods reducing pesticide use but maintaining yield and typicity must be designed The present book illustrates the recent progress made in ecophysiology molecular and cell biology and pathology of grapevine as well as in precision viticulture and berry composition Combination of these new tools with field observations will undoubtedly make it easier to face the challenges described above These multidisciplinary contributions will be of interest to anyone involved in grapevine and wine activities

Microbial Food Safety and Preservation Techniques V Ravishankar Rai,Jamuna A.

Bai,2014-09-26 In recent years rapid strides have been made in the fields of microbiological aspects of food safety and quality predictive microbiology and microbial risk assessment microbiological aspects of food preservation and novel preservation techniques Written by the experts and pioneers involved in many of these advances Microbial Food Safety and P

Handbook of Food Science, Technology, and Engineering - 4 Volume Set Y. H. Hui,Frank Sherkat,2005-12-19

Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have The Molecular Diagnostic PCR Handbook Gerrit J. Viljoen,Louis H. Nel,John R. Crowther,2005-12-06 PREFACE The Joint FAO IAEA Division of Nuclear Techniques in Food and Agriculture is involved in agricultural research and development and assists Member States of FAO and IAEA in improving strategies to ensure food security through the use of nuclear techniques and related biotechnologies where such techniques have a valuable and often unique role In particular molecular diagnostic methods have rapidly evolved in the past twenty years since the advent of the Polymerase Chain Reaction PCR They are used in a wide range of agricultural areas such as improving soil and water management producing better crop varieties diagnosing plant and animal diseases controlling insect pests and improving food quality and safety The uses of nucleic acid directed methods have increased significantly in the past five years and have made important contributions to disease control country programmes for improving national and international trade These developments include the more routine use of PCR as a diagnostic tool in veterinary diagnostic laboratories However there are many problems associated with the transfer and particularly the application of this technology These include lack of consideration of the establishment of quality assured procedures the required set up of the laboratory and the proper training of staff This can lead to a situation where results are not assured This book gives a comprehensive account of the practical aspects of PCR and strong consideration is given to

ensure its optimal use in a laboratory environment This includes the setting up of a PCR laboratory Good Laboratory Practice and standardised of PCR protocols Genetically Engineered Food Knut J. Heller, 2006-03-06 Clarifying the unsolved aspects of labeling novel foods this book presents the methods limitations and future perspectives for genetic engineering Following an overview of recent techniques and applications in plants animals and microorganisms a second section written by expert lawyers covers the legal issues of genetically engineered food and labeling The whole is rounded off with methods and strategies for detecting genetic manipulation in food Indispensable for industry and laboratories working in food production

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