

TOPIC

METHODS IN
NONRADIOACTIVE
DETECTION



Editor
Gary C. Howard

Methods In Nonradioactive Detection

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Methods In Nonradioactive Detection:

Methods in Nonradioactive Detection Gary C. Howard,1993-01-01 **Nonisotopic DNA Probe Techniques** Larry J. Kricka,2012-12-02 Recently many nonisotopic methods of probing specific DNA sequences have been developed as replacements for radioactive labels such as ³²phosphorous and ¹²⁵iodine This book brings all of these new methods together in one convenient easily accessible source It enables researchers to select the nonisotopic method best suited to their application and to use it to maximum advantage by following the straightforward instructions provided This book contains chapters on colorimetric bioluminescent chemiluminescent fluorescent and time resolved fluorescent detection methods Each chapter has been written by the inventor or developer of a particular nonisotopic method and thus provides an expert account of the method Each chapter presents useful background information and detailed step by step easy to follow experimental procedures for labeling and detection Gives extensive practical informationCovers major types of nonisotopic labels and proceduresPresents background information for each methodProvides strategies and detailed experimental procedures for labeling and detecting DNA sequences byFluorescenceChemiluminescenceBioluminescenceColorimetry

Molecular Methods in Plant Pathology U. S. Singh,Rudra P. Singh,2017-12-14 Molecular Methods in Plant Pathology covers methods in phytopathology at the molecular level including PCR techniques electron microscopy tissue culturing and the cloning of disease resistant genes Phytopathologists botanists horticulturists and anyone working in agriculture will find this a useful reference on biophysical biochemical biomolecular and biotechnological methods **Handbook of Molecular and Cellular Methods in Biology and Medicine, Second Edition** Leland J. Cseke,Peter B. Kaufman,Gopi K.

Podila,Chung-Jui Tsai,2003-11-24 Since the publication of the best selling Handbook of Molecular and Cellular Methods in Biology and Medicine the field of biology has experienced several milestones Genome sequencing of higher eukaryotes has progressed at an unprecedented speed Starting with baker s yeast *Saccharomyces cerevisiae* organisms sequenced now include human *Homo sapiens* model crucifer *Arabidopsis thaliana* and rice *Oryza sativa* The invention of DNA microarray technology and advances in bioinformatics have generated vast amounts of genomic data Reflecting these revolutionary advances Handbook of Molecular and Cellular Methods in Biology and Medicine Second Edition documents conventional and modern approaches to tackle scientific research in the post genomics era Maintaining the step by step format that popularized the first edition each chapter provides the principles behind the featured method a detailed description of each protocol applications of the protocol to different systems and references for further study Handbook of Molecular and Cellular Methods in Biology and Medicine Second Edition now includes New protocols in all chapters including alternative protocols In vitro transcription methods Analysis of DNA sequences New bioseparation techniques New chapters covering mRNA differential display Inhibition of gene expression In situ hybridization Localization of gene expression Combinatorial techniques Computational data mining methods applied to combinatorial chemistry libraries With this book at hand

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Bernard Henry,1996 Provides a scientific information resource in aspects of clinical pathology and laboratory medicine relevant to patient care health promotion and disease prevention *Methods in Gene Technology* ,1994

Modern Methods in Protein- and Nucleic Acid Research Harald Tschesche,1990 PCR and DNA Hybridization Methods for Specific Detection and Identification of Bean-infecting Geminiviruses Jamie Lynne Potter,2002 **Diagnostic**

Molecular Microbiology David H. Persing,1993 Diagnostic Molecular Microbiology is the first major text to provide complete coverage of both the principles and applications of molecular diagnostic methods as they pertain to infectious diseases Written and edited by leading international experts this text provides both the theoretical and practical framework for understanding the powerful uses of nucleic acid amplification technologies and for applying these techniques to the rapid detection and characterisation of microbial pathogens bacterial viral fungal parasitic in the clinical laboratory The nine chapters in part 1 Principles summarise the basic theory underlying the emerging discipline of molecular diagnostics The sixty six protocols in part 2 Applications offer proven applications of molecular diagnostic techniques for the diagnosis of infectious diseases Written in the tradition of ASM s other classic manuals this book provides a valuable reference and teaching tool for any clinical microbiology laboratory **Chemical Abstracts** ,1918 *Russian Journal of Bioorganic Chemistry* ,1994

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