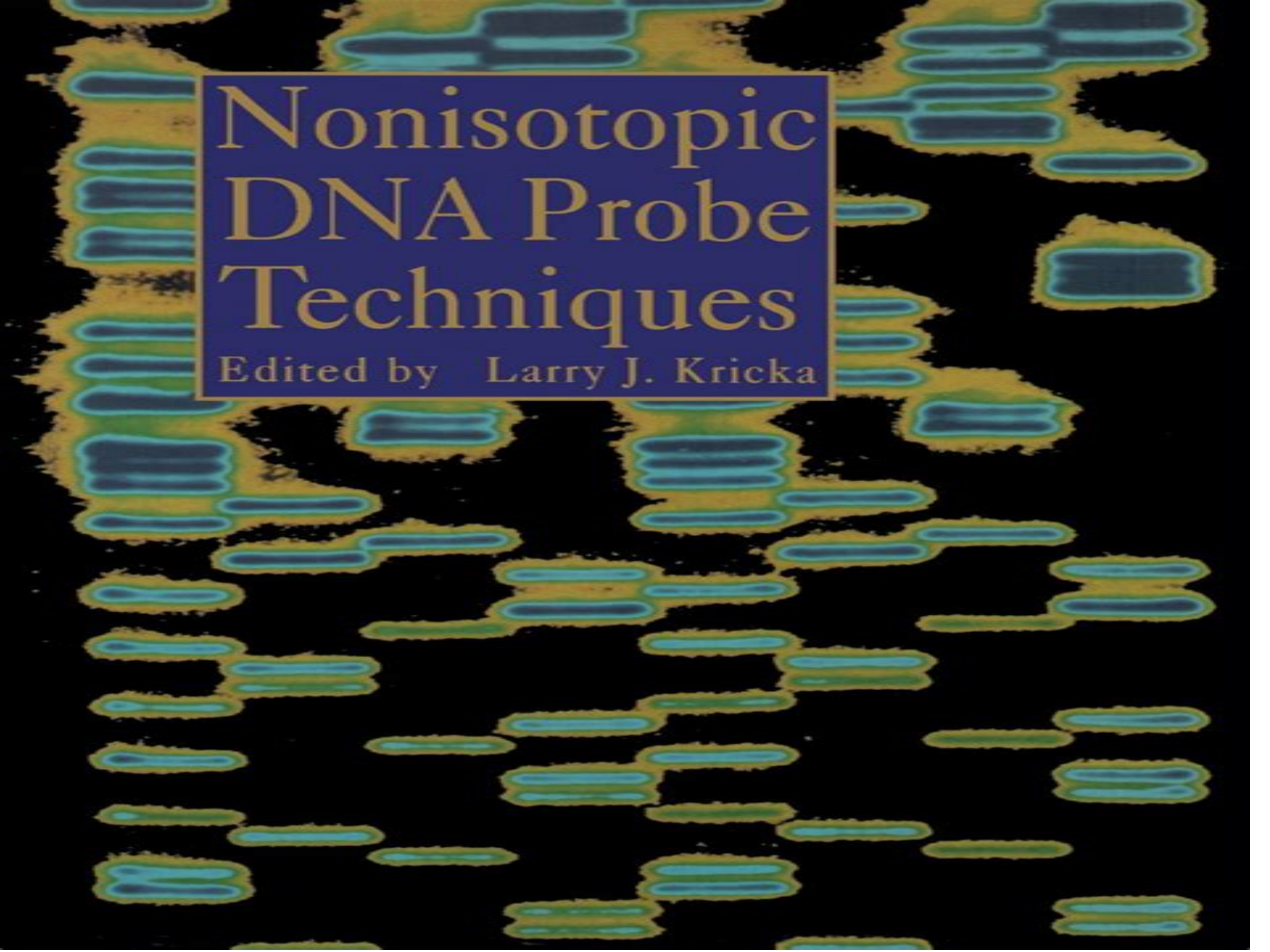




# Nonisotopic DNA Probe Techniques

Edited by Larry J. Kricka

# Nonisotopic Dna Probe Techniques

**Bibek Ray, Arun Bhunia**



## **Nonisotopic Dna Probe Techniques:**

*Nonisotopic Dna Probe Techniques* Larry Kricka, 1992-03-30 *Nonisotopic Dna Probe Techniques* *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 <sup>32</sup>phosphorous and <sup>125</sup>iodine 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 information Covers major types of nonisotopic labels and procedures Presents background information for each method Provides strategies and detailed experimental procedures for labeling and detecting DNA sequences by Fluorescence Chemiluminescence Bioluminescence Colorimetry Nonisotopic Probing, Blotting, and Sequencing Larry J. Kricka, 1995-06-01 Since the publication of *Nonisotopic DNA Probe Techniques* in 1992 the move away from radioactive materials for research and diagnostics has continued This is due in part to public awareness of the hazards of radioactive waste and laws making radioactive disposal more difficult and costly and to improvement in both the sensitivity and convenience of nonisotopic techniques Several new nonisotopic techniques have been developed and substantial improvements made to existing nonisotopic methods since 1992 and these are now included in *Nonisotopic Probing Blotting and Sequencing* *Nonisotopic Probing Blotting and Sequencing* is an updated expanded edition of the bestseller *Nonisotopic DNA Probe Techniques* It has been thoroughly revised to include the latest improvements in nonisotopic tagging techniques for macromolecules Like its predecessor it enables researchers to select the best nonisotopic method for their needs and maximize success by following its straightforward protocols Provides strategies and detailed procedures for labeling blotting and probing specific nucleic acid sequences and with this edition protein molecules Gives protocols for nonisotopic DNA sequencing new in this edition Gives extensive practical information Presents background information for each method Provides expert accounts from the inventor or developer of each method Contains seven entirely new chapters Covers all major types of nonisotopic procedures for labeling and detection Automated Microbial Identification and Quantitation Wayne P. Olson, 1996-01-31 This book focuses on practical proven applications to automate the microbial identification process economically and with greater levels of safety and quality for patients A diverse group of recognized experts survey the topic and present the latest techniques and technologies for microbial detection They cover bacteria and yeasts the technology of automation equipment methods and the validation issues involved in going automated They also explore the

challenges of detection and quantitation of contaminants in the increasing number of biologic injectable drugs and identify current trends in the industry

**Features**

**Molecular Methods for Virus Detection** Danny L. Wiedbrauk, Daniel H. Farkas, 1995-02-08 Molecular diagnostic procedures have been described in a number of recent books and articles However these publications have not focused on virus detection nor have they provided practical protocols for the newer molecular methods Written by the inventors or principal developers of these technologies Molecular Methods for Virus Detection provides both reviews of individual methods and instructions for detecting virus nucleic acid sequences in clinical specimens Each procedure includes quality assurance protocols that are often ignored by other methodology books Molecular Methods for Virus Detection provides clinically relevant procedures for many of the newer diagnostic methodologies Provides state of the art PCR methods for amplification quantitation in situ hybridization and multiplex reactions Goes beyond PCR with protocols for 3SR NASBA LCR SDA and LAT Covers important virus detection methods such as in situ hybridization Southern dot and slot blots branched chain signal amplification and chemiluminescence Includes quality control information crucial in research and clinical laboratories Most chapters are written by the inventors and principal developers of the methodologies Includes color plates 77 figures and 18 tables

*Nonradioactive Labeling and Detection of Biomolecules* Christoph Kessler, 2012-12-06 All the bioanalytical labeling and detection techniques in one source This book gathers together all the important nonradioactive labeling techniques for nucleic acids proteins glycoproteins and glycolipids like Digoxigenin Anti Digoxigenin DIG Biotin 5 Bromodeoxyuridine BrdU Sulfone Immunogold Silver Enhancement and Synthetic Nucleic Acid Probe SNAP as well as the standard procedures for optical chemical biological electrochemiluminescent and fluorescent detection Additionally applications for the use of non isotopically labeled biomolecules are described Specific protocols are given for hybridization analysis such as blot colony plaque and in situ hybridization formats quantitative formats and also nonradioactive techniques for nucleic acid sequencing and amplification Each chapter contains a short introduction a detailed description of the method with lab protocols troubleshooting tips and references

**Bioconjugate Techniques** Greg T. Hermanson, 2010-07-26 Bioconjugate Techniques 2nd Edition is the essential guide to the modification and cross linking of biomolecules for use in research diagnostics and therapeutics It provides highly detailed information on the chemistry reagent systems and practical applications for creating labeled or conjugate molecules It also describes dozens of reactions with details on hundreds of commercially available reagents and the use of these reagents for modifying or cross linking peptides and proteins sugars and polysaccharides nucleic acids and oligonucleotides lipids and synthetic polymers A one stop source for proven methods and protocols for synthesizing bioconjugates in the lab Step by step presentation makes the book an ideal source for researchers who are less familiar with the synthesis of bioconjugates More than 600 figures that visually describe the complex reactions associated with the synthesis of bioconjugates Includes entirely new chapters on the latest areas in the field of bioconjugation as follows Microparticles and nanoparticles Silane coupling agents Dendrimers and

dendrons Chemoselective ligation Quantum dots Lanthanide chelates Cyanine dyes Discrete PEG compounds Buckyballs  
fullerenes and carbon nanotubes Mass tags and isotope tags Bioconjugation in the study of protein interactions *Laboratory  
Information Bulletin*, 1998 **Molecular Methods for Microbial Identification and Typing** K.J. Towner, A.

Cockayne, 2013-03-07 The accurate identification and typing of microbes is essential for workers active in all fields of  
microbiology Many examples of modern molecular methods have been concealed in scientific and medical literature but this  
introductory text considers the possible applications of such methods and compares their advantages and disadvantages

In Situ Hybridization in Neurobiology James H. Eberwine, Karen L. Valentino, Jack D. Barchas, 1994 In situ hybridization  
has become an important and widely used research tool for neurobiologists since the authors first book on the subject In Situ  
Hybridization Applications to Neurobiology Oxford 1987 This new volume examines the methodological advances that have  
been made in in situ hybridization techniques and their impact on the study of the nervous system These include methods for  
improving sensitivity ways of examining multiple mRNAs within the same section ways of examining both proteins and  
mRNAs within the same section and methods for using in situ hybridization technology to examine areas of cellular biological  
significance such as translational control The development of alternative labels to radioactivity for the detection of hybridized  
probes and the combined use of in situ hybridization and immunocytochemistry is also covered in this book It discusses the  
quantification of in situ hybridization signal and presents an overview of information generated by using in situ hybridization  
in diagnostic medicine This volume will be essential to researchers in the neurosciences as well as those in other disciplines

Nucleic Acid Amplification Technologies Helen H. Lee, Stephen A. Morse, Ørjan Olsvik, 1997-07-15 Providing current  
information and guidance on the uses of various nucleic acid amplification technologies for clinical laboratory diagnosis this  
book goes beyond the Polymerase Chain Reaction to explore a broader range of important alternative DNA RNA amplification  
methods including the Ligase Chain Reaction Q beta Replicase Assays and TMA There are many examples of specific  
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technologies to medical research and disease diagnostics Individual chapters cover uses of these methods in clinical  
situations such as detection of food pathogens viral infections STDs Mycobacteria drug resistance mutations and heritable  
diseases Automation diagnostic test evaluation and the synthesis of artificial DNA are also discussed This book is designed  
for all biomedical scientists interested in the application of molecular biology to clinical diagnosis **Handbook for**

**Rhizobia** Padma Somasegaran, Heinz J. Hoben, 2012-12-06 Rhizobia are bacteria which inhabit the roots of plants in the pea  
family and fix atmospheric nitrogen for plant growth They are thus of enormous economic importance internationally and the  
subject of intense research interest Handbook for Rhizobia is a monumental book of practical methods for working with these  
bacteria and their plant hosts Topics include the general microbiological properties of rhizobia and their identification their  
potential as symbionts methods for inoculating rhizobia onto plants and molecular genetics methods for Rhizobium in the

laboratory The book will be invaluable to Rhizobium scientists soil microbiologists field and laboratory researchers at agricultural research centers agronomists and crop scientists

**Food Microbiology and Analytical Methods** Mary Lou Tortorello, Steven M. Gendel, 1997-06-03 Covering the detection and identification of microbes genetic analysis methods and the assessment of microbial growth and viability this text examines up to date advances in microbiological analysis unique to food systems It highlights the advantages of modern techniques used in conjunction with the microscope to achieve rapid detection and quantification of microorganisms

**Luminescence Immunoassay and Molecular Applications** Knox Van Dyke, 1990-05-31 This unique one of a kind book provides updated information on the various aspects of luminescence immunoassay LIA Focusing on this newly emerging technology this work describes the important findings regarding the chemistry of light and the various forms of luminescent immunoassay It includes antigen labeling enzyme labeling cofactor labeling enzyme multiplied assay and multiple labeled immunoassay This interesting text also discusses calculations including computer programs available for high throughput analysis No other compendium provides such a broad overview as well as details on this fascinating subject Both novices and experts will find important and useful information packed in this must have resource on luminescence immunoassay

**Nucleic Acid Probes** Robert H. Symons, 1989-03-31 With each chapter written by a distinguished expert in the biochemistry field this comprehensive volume describes the preparation and use of a variety of radioactive and non radioactive probes in situations ranging from research laboratories to routine diagnosis laboratories The enzymatic and chemical techniques for labeling nucleic acid probes with radioisotopes and with non radioactive ligands and haptens are discussed Additionally the associated methods for their detection the use of these probes in the diagnosis of human and microbial pathogens of plant viruses and viroids and of human genetic disorders as well as in the detection of nucleic acids in tissues and cells by in situ hybridization are presented

**Hybridization Techniques for Electron Microscopy** Gerard Morel, 1993-06-09 Hybridization Techniques for Electron Microscopy examines the use of in situ hybridization techniques including an overview of current perspectives and future developments The book features in situ methods for fluorescence probes and confocal scanning microscopes Three in situ hybridization methods for electron microscopes are analyzed the non embedded tissue method using ultrathin frozen sections pre embedded method and post embedded method using material embedded in hydrophilic resin Positive and negative features are discussed and clear instructions regarding implementation of techniques are provided Particular aspects of the techniques are examined in detail such as preparation of tissue pretreatment hybridization procedures revelation autoradiography and immunocytochemistry and checking procedures in addition to the illustration interpretation and discussion of methods and results The main applications described include virus detection chromosomal gene mapping detection of ribosomal nucleic acid and detection of messenger RNA in animals and plants Hybridization Techniques for Electron Microscopy is an excellent reference for cytologists cell biologists histochemists cytochemists molecular endocrinologists and

neuroendocrinologists      Analytical Molecular Biology Helen Parkes,V (Ginny) Saunders,2007-10-31 In spite of the wide variety and complexity of biological materials nucleic acids are ubiquitous DNA is becoming the bioanalyte of choice due to the vast amount of information embedded in its sequence its robust chemical nature and the range of highly sensitive analytical techniques that have been developed The results of such analyses can have an important impact on our society both commercially and in terms of the quality of life Absolute confidence in the data generated is therefore of the utmost importance This book produced by LGC as part of the VAM Valid Analytical Measurement Programme introduces the issues of validation and quality to the bioanalytical community specifically addressing DNA based analyses It aims to raise awareness of the factors that can influence the validity of DNA analysis and the production of quality data Emphasis is placed on VAM principles as well as additional challenges that are associated with the analysis of real samples for example complex food matrices or forensic samples that have been subjected to environmental insult Information is collated from a variety of sources including literature discussions and LGC research and offers constructive advice where possible

**Bioluminescence and Chemiluminescence, Part C** ,2000-05-12 Since the publication of Bioluminescence and Chemiluminescence Part B genes have been cloned that encode luciferases from an array of bioluminescent organisms novel applications of these genes have been developed and much has been learned of the fundamental chemistry biochemistry structural biology and biophysics of these intriguing enzymes New strategies for application of chemiluminescence technology have been developed and refined promising to further reduce the need to use radioisotopes in basic research and clinical laboratory settings Methods for detection of low levels of light continue to push the limits of detection allowing ready monitoring in real time of intricate subcellular processes within living cells This book affords a glimpse of the state of the art of a rapidly advancing field and presents to users of these methods a detailed reference of current activities in the field The critically acclaimed laboratory standard for more than forty years Methods in Enzymology is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with more than 300 volumes all of them still in print the series contains much material still relevant today truly an essential publication for researchers in all fields of life sciences Outlines the use of luminescent reporter technologies to monitor gene expression and protein trafficking Describes the luminescence based clinical assay technologies Details the basic biochemistry biophysics and chemistry of light emitting reactions that are critical for applications Includes explanations of the instrumentation used for detection and quantification of low level light Shows the new applications of luminescence based technologies that result largely from broad advances in recombinant DNA technologies and nonscale methods      **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1992      Fundamental Food Microbiology Bibek Ray,Arun Bhunia,2013-11-26 The golden era of food microbiology has begun All three areas of food microbiology beneficial spoilage and pathogenic microbiology are expanding and progressing at

an incredible pace What was once a simple process of counting colonies has become a sophisticated process of sequencing complete genomes of starter cultures and use of biosensors to

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