

Methods in Molecular Biology™

VOLUME 162

Capillary Electrophoresis of Nucleic Acids

Volume I

*Introduction to the Capillary
Electrophoresis of Nucleic Acids*

Edited by

**Keith R. Mitchelson
Jing Cheng**



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Capillary Electrophoresis Of Nucleic Acids Methods In Molecular Biology

K. S. Siddiqi, Leo M.L. Nollet



Capillary Electrophoresis Of Nucleic Acids Methods In Molecular Biology:

Capillary Electrophoresis of Nucleic Acids Keith R. Mitchelson, Jing Cheng, 2008-02-05 The development of PCR which enables extremely small amounts of DNA to be amplified led to the rapid development of a multiplicity of analytical procedures that permit use of this new resource for the analysis of genetic variation and for the detection of disease causing mutations. The advent of capillary electrophoresis CE with its power to separate and analyze very small amounts of DNA has also stimulated researchers to develop analytical procedures for the CE format. The advantages of CE in terms of speed and reproducibility of analyses are manifold. Furthermore the high sensitivity of detection and the ability to increase sample throughput with parallel analysis has led to the creation of a full range of analysis of DNA molecules from modified DNA adducts and single strand oligonucleotides through PCR amplified DNA fragments and whole chromosomes. Capillary Electrophoresis of Nucleic Acids focuses on analytical protocols that can be used for detection and analysis of mutations and modification from precise DNA loci through entire genomes of organisms. Important practical considerations for CE such as the choice of separation media, electrophoresis conditions and the influence of buffer additives and dyes on DNA mobility are discussed in several key chapters and within particular applications. Methods in Molecular Biology: Capillary electrophoresis of nucleic acids: Introduction to the capillary electrophoresis of nucleic acids John M. Walker, 1984

Capillary Gel Electrophoresis Andras Guttman, László Hajba, 2021-12-04 Capillary Gel Electrophoresis and Related Microseparation Techniques covers all theoretical and practical aspects of capillary gel electrophoresis. It also provides an excellent overview of the key application areas of nucleic acid, protein and complex carbohydrate analysis, affinity based methodologies, micropreparative aspects and related microseparation methods. It not only gives readers a better understanding of how to utilize this technology but also provides insights into how to determine which method will provide the best technical solutions to particular problems. This book can also serve as a textbook for undergraduate and graduate courses in analytical chemistry, analytical biochemistry, molecular biology and biotechnology courses. Covers all theoretical and practical aspects of capillary gel electrophoresis. Excellent overview of the key applications of nucleic acid, protein and complex carbohydrate analysis, affinity based methodologies, micropreparative aspects and related microseparation methods. Teaches readers how to use the technology and select methods that are ideal for fundamental problems. Can serve as a textbook for undergraduate and graduate courses in analytical chemistry, analytical biochemistry, molecular biology and biotechnology courses. **Methods in Molecular Biology: Capillary electrophoresis of nucleic acids: Practical applications of capillary electrophoresis** John M. Walker, 1984 **Capillary Electrophoresis of Biomolecules** Nicola Volpi, Francesca Maccari, 2016-05-01 This book details key techniques used to investigate Capillary electrophoresis CE. It focuses on simple and complex carbohydrates, polysaccharides, amino acids, peptides and proteins, enzymes and nucleic acids.

Principles and Techniques of Biochemistry and Molecular Biology Keith Wilson, John M. Walker, 2005-03-21 New

fully updated edition of bestselling textbook expanded to include techniques from across the biosciences Peptide Nucleic Acids Peter E. Nielsen, 2008-02-04 Peptide nucleic acids PNAs have now existed for slightly more than ten years with the interest in and applications of this pseudopeptide DNA mimic steadily increasing during the entire period PNAs have rapidly attracted the attention of scientists from a diversity of fields ranging from bio organic and biophysical chemistry to prebiotic evolution and from molecular biology to genetic diagnostics and drug development Many of the applications take advantage of the unique properties of PNA an uncharged pseudopeptide that distinguish this DNA mimic from more traditional DNA analogs Rather than trying to create a comprehensive collection of all published methods and protocols involving PNA many of which have not yet been validated I have decided to concentrate on select protocols that are either very well established by several groups around the world such as PCR clamping and in situ hybridization or on new methods that may have broader future impact Basic methods for PNA oligomer synthesis and analyses have also been included I am very grateful to those friends and colleagues who have enthusiastically contributed their work discussions and writing and thereby made this book possible Peter E Nielsen v Contents Preface v Contributors ix I INTRODUCTION 1 PNA Technology Peter E Nielsen 3 II CHEMISTRY 2 Solid Phase Synthesis of PNA Oligomers Frederik Beck 29 3 Synthesis of PNA Peptide Conjugates Satish Kumar Awasthi and Peter E Nielsen 43 4 Parallel Synthesis of PNA Peptide Conjugate Libraries Satish Kumar Awasthi and Peter E Nielsen **Diagnostic Molecular Biology** Chang-Hui Shen, 2019-04-02 Diagnostic Molecular Biology describes the fundamentals of molecular biology in a clear concise manner to aid in the comprehension of this complex subject Each technique described in this book is explained within its conceptual framework to enhance understanding The targeted approach covers the principles of molecular biology including the basic knowledge of nucleic acids proteins and genomes as well as the basic techniques and instrumentations that are often used in the field of molecular biology with detailed procedures and explanations This book also covers the applications of the principles and techniques currently employed in the clinical laboratory Provides an understanding of which techniques are used in diagnosis at the molecular level Explains the basic principles of molecular biology and their application in the clinical diagnosis of diseases Places protocols in context with practical applications **Molecular Biology** Burton E. Tropp, 2012 Newly revised and updated the Fourth Edition is a comprehensive guide through the basic molecular processes and genetic phenomena of both prokaryotic and eukaryotic cells Written for the undergraduate and first year graduate students the text has been updated with the latest data in the field It incorporates a biochemical approach as well as a discovery approach that provides historical and experimental information within the context of the narrative **Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology** Andreas Hofmann, Samuel Clokie, 2018-04-19 Bringing this best selling textbook right up to date the new edition uniquely integrates the theories and methods that drive the fields of biology biotechnology and medicine comprehensively covering both the techniques students will encounter in lab classes and those that underpin current key advances and

discoveries The contents have been updated to include both traditional and cutting edge techniques most commonly used in current life science research Emphasis is placed on understanding the theory behind the techniques as well as analysis of the resulting data New chapters cover proteomics genomics metabolomics bioinformatics as well as data analysis and visualisation Using accessible language to describe concepts and methods and with a wealth of new in text worked examples to challenge students understanding this textbook provides an essential guide to the key techniques used in current bioscience research

Fingerprinting Techniques in Food Authentication and Traceability K. S. Siddiqi, Leo M.L. Nollet, 2018-10-08 There is an increasing interest by consumers for high quality food products with a clear geographical origin With these products in demand suitable analytical techniques are needed for the quality control Current analytical approaches are mass spectrometry techniques spectroscopic techniques separation techniques and others Fingerprinting Techniques in Food Authentication and Traceability discusses the principles of the techniques together with their advantages and drawbacks and reported applications concerning geographical authenticity A combination of methods analyzing different types of food compounds seems to be the most promising approach to establish the geographical origin The abundant acquired data are analyzed by chemometrics Producing safe and high quality food is a prerequisite to ensure consumer health and successful domestic and international trade and is critical to the sustainable development of national agricultural resources Systems to trace food or feed products through specified stages of production processing and distribution play a key role in assuring food safety Analytical techniques that enable the provenance of food to be determined provide an independent means of verifying traceability systems and also help to prove product authenticity to combat fraudulent practices and to control adulteration which are important issues for economic religious or cultural reasons Proof of provenance has become an important topic in the context of food safety food quality and consumer protection in accordance with national legislation and international standards and guidelines

Bioanalytical Techniques Inamuddin, Tariq Altalhi, Abeer Alosaimi, Jorddy Neves Cruz, 2025-08-08 The book provides a comprehensive guide that covers the fundamental principles and methodologies of essential bioanalytical techniques Bioanalytical Techniques Principles and Applications is a comprehensive and authoritative book that explores the principles methodologies and applications of bioanalytical techniques in the field of life sciences The book covers a wide range of analytical techniques used for the characterization quantification and analysis of biological samples including proteins nucleic acids metabolites and biomarkers Using a multidisciplinary approach by integrating concepts from biochemistry molecular biology analytical chemistry and biotechnology this book provides a solid foundation in the fundamental principles underlying various bioanalytical techniques such as spectroscopy chromatography electrophoresis immunoassays mass spectrometry and biosensors Each technique is explained in detail including its working principles instrumentation data analysis and practical considerations The book incorporates case studies examples and practical tips to illustrate how these techniques are used to solve biological problems

and address research questions It also discusses emerging trends and technologies in bioanalytical techniques such as microfluidics nanotechnology and omics approaches Readers will find the book Offers comprehensive coverage of bioanalytical techniques encompassing a wide range of methodologies instruments and applications through real world case studies Adopts a multidisciplinary approach integrating concepts from biochemistry molecular biology analytical chemistry and biotechnology Explores emerging trends and technologies in bioanalytical techniques such as microfluidics nanotechnology omics approaches and bioinformatics Includes practical guidance troubleshooting tips and common challenges in bioanalysis equipping readers with valuable insights and strategies for successful experimentation and data interpretation Features contributions from renowned experts and leaders in the field ensuring the content is authoritative up to date and reflects the latest advancements in bioanalytical techniques Audience Biochemists biologists chemists and medical and pharmaceutical professionals interested in biomolecules enzymology and biochemical pathways **Capillary**

Electrophoresis of Nucleic Acids Keith R. Mitchelson, Jing Cheng, 2010-10-28 The development of PCR which enables extremely small amounts of DNA to be amplified led to the rapid development of a multiplicity of analytical procedures that permit use of this new resource for the analysis of genetic variation and for the detection of disease causing mutations The advent of capillary electrophoresis CE with its power to separate and analyze very small amounts of DNA has also stimulated researchers to develop analytical procedures for the CE format The advantages of CE in terms of speed and reproducibility of analyses are manifold Furthermore the high sensitivity of detection and the ability to increase sample throughput with parallel analysis has led to the creation of a full range of analysis of DNA molecules from modified DNA adducts and single strand oligonucleotides through PCR amplified DNA fragments and whole chromosomes Capillary Electrophoresis of Nucleic Acids focuses on analytical protocols that can be used for detection and analysis of mutations and modification from precise DNA loci through entire genomes of organisms Important practical considerations for CE such as the choice of separation media electrophoresis conditions and the influence of buffer additives and dyes on DNA mobility are discussed in several key chapters and within particular applications *DNA Methylation Protocols* Ken I. Mills, Bernie H. Ramsahoye, 2008-02-05

DNA Methylation Protocols offer a set of readily reproducible protocols of the analysis of DNA methylation and methylases These powerful methods provide the tools necessary for studying methylation at both the global level and the level of sequence and include many techniques for identifying genes that might be aberrantly methylated in cancer and aging Additional methods cover genome wide analysis of abnormal DNA methylation and the isolation and measurement of demethylases and related proteins **Cytoskeleton Methods and Protocols** Ray H. Gavin, 2008-02-03 Over the past two decades experimental studies have solidified the interpretation of the cytoskeleton as a highly dynamic network of microtubules actin microfilaments intermediate filaments and myosin filaments Rather than a network of disparate fibers these polymers are often interconnected and display synergy which is the combined action of two or more cytoskeletal

polymers to achieve a specific cellular structure or function Cross communication among cytoskeletal polymers is thought to be achieved through cytoskeletal polymer accessory proteins and molecular motors that bind two or more cytoskeletal polymers Development of the modern concept of the cytoskeleton is a direct result of advances in experimental tools and reagents that are available to cell and molecular biologists Technological advances and refinements in cell imaging have made it possible to selectively image a single cytoskeletal polymer and monitor its dynamics through the use of fluorescence probes in vitro and in vivo Two decades ago cytoskeletal research was limited to a few perturbation reagents that included colchicine and cytochalasin Today the perturbation arsenal has expanded to a highly selective group of reagents that includes Taxol nocodazole benomyl latrunculin jasplakinolide and such endogenous proteins as gelsolin These reagents enable the investigator to selectively perturb or destroy a cytoskeletal polymer while leaving other cytoskeletal polymers intact Site specific monoclonal antibodies that target a specific cytoskeletal polymer have proven to be highly selective affinity tools for cytoskeletal research

Transgenic Mouse Methods and Protocols Marten H. Hofker, Jan van Deursen, 2008-02-04 Marten Hofker and Jan van Deursen have assembled a multidisciplinary collection of readily reproducible methods for working with mice and particularly for generating mouse models that will enable us to better understand gene function Described in step by step detail by highly experienced investigators these proven techniques include new methods for conditional induced knockout and transgenic mice as well as for working with mice in such important research areas as immunology cancer and atherosclerosis Such alternative strategies as random mutagenesis and viral gene transduction for studying gene function in the mouse are also presented

Transgenesis Techniques Alan R. Clarke, 2008-02-05 The past decade has witnessed a spectacular explosion in both the development and use of transgenic technologies Not only have these been used to aid our fundamental understanding of biologic mechanisms but they have also facilitated the development of a range of disease models that are now truly beginning to impact upon our approach to human disease Some of the most exciting model systems relate to neurodegenerative disease and cancer where the availability of appropriate models is at last allowing radically new therapies to be developed and tested This latter point is of particular significance given the current concerns of the wider public over both the use of animal models and the merits of using genetically modified organisms Arguably advances of the greatest significance have been made using mammalian systems driven by the advent of embryonic stem cell based strategies and more recently by cloning through nuclear transfer For this reason this new edition of Transgenesis Techniques focuses much more heavily on manipulation of the mammalian genome both in the general discussions and in the provision of specific protocols

DNA-Protein Interactions Tom Moss, 2008-02-02 Dr Tom Moss assembles the new standard collection of cutting edge techniques to identify key protein DNA interactions and define their components their manner of interaction and their manner of function both in the cell and in the test tube The techniques span a wide range from factor identification to atomic detail and include multiple DNA footprinting analyses

including in vivo strategies gel shift EMSA optimization SELEX surface plasmon resonance site specific DNA protein crosslinking and UV laser crosslinking Comprehensive and broad ranging DNA Protein Interactions Principles and Protocols 2nd Edition offers a stellar array of over 100 up to date and readily reproducible techniques that biochemists and molecular cellular and developmental biologists can use successfully today to understand DNA protein interactions

Forensic Science Handbook, Volume I Adam B. Hall, Richard Saferstein, 2020-10-19 Originally published in 1982 by Pearson Prentice Hall the Forensic Science Handbook Third Edition has been fully updated and revised to include the latest developments in scientific testing analysis and interpretation of forensic evidence World renowned forensic scientist author and educator Dr Richard Saferstein once again brings together a contributor list that is a veritable Who's Who of the top forensic scientists in the field This Third Edition he is joined by co editor Dr Adam Hall a forensic scientist and Assistant Professor within the Biomedical Forensic Sciences Program at Boston University School of Medicine This two volume series focuses on the legal evidentiary biological and chemical aspects of forensic science practice The topics covered in this new edition of Volume I include a broad range of subjects including Legal aspects of forensic science Analytical instrumentation to include microspectrophotometry infrared Spectroscopy gas chromatography liquid chromatography capillary electrophoresis and mass spectrometry Trace evidence characterization of hairs dust paints and inks Identification of body fluids and human DNA This is an update of a classic reference series and will serve as a must have desk reference for forensic science practitioners It will likewise be a welcome resource for professors teaching advanced forensic science techniques and methodologies at universities world wide particularly at the graduate level

Sample Preparation for Hyphenated Analytical Techniques Jack Rosenfeld, 2009-02-12 Linking standard but often mutually incompatible analytical techniques so called hyphenation generally leads to enhanced analytical performance so hyphenated techniques are widely used in areas where samples are presented in complex matrices eg environmental pharmaceutical and biochemical analysis With these hyphenated techniques sample preparation is often the most time consuming step in analysis particularly where compounds are present in low concentration and it has a huge influence on the quality of the analytical results Sample preparation is still not given the importance it deserves however The purpose of this book is to demonstrate the sample preparation chemistry that has enabled the present sensitivity specificity and high throughput available across a range of hyphenated analytical techniques and to illustrate the successful utilization of existing sample preparation methodologies in various analytical applications It identifies the problems in biology environmental science and pharmaceutical chemistry that require new ideas in chemistry and provides considered opinion on those newer techniques that may address these problems By dealing with wider issues than is generally found in review papers this book will provide analytical chemists with insights that are not available by searching the literature for papers on a specific topic

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