

Methods in ENZYMOLOGY

Volume 410

DNA Microarrays Part A: Array Platforms & Wet-Bench Protocols

Edited by

Alan R. Kimmel
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Dna Microarrays Part A Array Platforms Wet Bench Protocols Volume 410 Methods In Enzymology

Anthony S. Fauci



Dna Microarrays Part A Array Platforms Wet Bench Protocols Volume 410 Methods In Enzymology:

DNA Microarrays, Part A: Array Platforms and Wet-Bench Protocols, 2011-08-19 Modern DNA microarray technologies have evolved over the past 25 years to the point where it is now possible to take many million measurements from a single experiment These two volumes Parts A B in the Methods in Enzymology series provide methods that will shepard any molecular biologist through the process of planning performing and publishing microarray results Part A starts with an overview of a number of microarray platforms both commercial and academically produced and includes wet bench protocols for performing traditional expression analysis and derivative techniques such as detection of transcription factor occupancy and chromatin status Wet bench protocols and troubleshooting techniques continue into Part B These techniques are well rooted in traditional molecular biology and while they require traditional care a researcher that can reproducibly generate beautiful Northern or Southern blots should have no difficulty generating beautiful array hybridizations Data management is a more recent problem for most biologists The bulk of Part B provides a range of techniques for data handling This includes critical issues from normalization within and between arrays to uploading your results to the public repositories for array data and how to integrate data from multiple sources There are chapters in Part B for both the debutant and the expert bioinformatician Provides an overview of platforms Includes experimental design and wet bench protocols Presents statistical and data analysis methods array databases data visualization and meta analysis

DNA Microarrays, Part B: Databases and Statistics, 2006-08-28 Modern DNA microarray technologies have evolved over the past 25 years to the point where it is now possible to take many million measurements from a single experiment These two volumes Parts A B in the Methods in Enzymology series provide methods that will shepard any molecular biologist through the process of planning performing and publishing microarray results Part A starts with an overview of a number of microarray platforms both commercial and academically produced and includes wet bench protocols for performing traditional expression analysis and derivative techniques such as detection of transcription factor occupancy and chromatin status Wet bench protocols and troubleshooting techniques continue into Part B These techniques are well rooted in traditional molecular biology and while they require traditional care a researcher that can reproducibly generate beautiful Northern or Southern blots should have no difficulty generating beautiful array hybridizations Data management is a more recent problem for most biologists The bulk of Part B provides a range of techniques for data handling This includes critical issues from normalization within and between arrays to uploading your results to the public repositories for array data and how to integrate data from multiple sources There are chapters in Part B for both the debutant and the expert bioinformatician Provides an overview of platforms Includes experimental design and wet bench protocols Presents statistical and data analysis methods array databases data visualization and meta analysis

Microarray Technology in Practice Steve Russell, Lisa A. Meadows, Roslin R. Russell, 2008-11-21 Using chips composed of thousands of spots each with the capability of holding DNA molecules

corresponding to a given gene DNA microarray technology has enabled researchers to measure simultaneously gene expression across the genome As with other large scale genomics approaches microarray technologies are broadly applicable across disciplines of life and biomedical sciences but remain daunting to many researchers This guide is designed to demystify the technology and inform more biologists about this critically important experimental technique Cohesive overview of the technology and available platforms followed by detailed discussion of experimental design and analysis of microarray experiments Up to date description of normalization methods and current methods for sample amplification and labeling Deep focus on oligonucleotide design printing labeling and hybridization data acquisition normalization and meta analysis Additional uses of microarray technology such as ChIP chromatin immunoprecipitation with hybridization to DNA arrays microarray based comparative genomic hybridization CGH and cell and tissue arrays

Embryonic Stem Cells

,2006-12-08 This is the first of three planned volumes in the Methods in Enzymology series on the topic of stem cells This volume is a unique anthology of stem cell techniques written by experts from the top laboratories in the world The contributors not only have hands on experience in the field but often have developed the original approaches that they share with great attention to detail The chapters provide a brief review of each field followed by a cookbook and handy illustrations The collection of protocols includes the isolation and maintenance of stem cells from various species using conventional and novel methods such as derivation of ES cells from single blastomeres differentiation of stem cells into specific tissue types isolation and maintenance of somatic stem cells stem cell specific techniques and approaches to tissue engineering using stem cell derivatives The reader will find that some of the topics are covered by more than one group of authors and complement each other Comprehensive step by step protocols and informative illustrations can be easily followed by even the least experienced researchers in the field and allow the setup and troubleshooting of these state of the art technologies in other laboratories Provides complete coverage spanning from derivation isolation of stem cells and including differentiation protocols characterization and maintenance of derivatives and tissue engineering Presents the latest most innovative technologies Addresses therapeutic relevance including FDA compliance and tissue engineering

Amyloid, Prions, and Other Protein Aggregates, Part B

,2006-10-06 The ability of polypeptides to form alternatively folded polymeric structures such as amyloids and related aggregates is being increasingly recognized as a major new frontier in protein research This new volume of Methods in Enzymology along with Part C volume 413 on Amyloid Prions and other Protein Aggregates continue in the tradition of the first volume 309 in containing detailed protocols and methodological insights provided by leaders in the field into the latest methods for investigating the structures mechanisms of formation and biological activities of this important class of protein assemblies Presents detailed protocols Includes troubleshooting tips Provides coverage on structural biology computational methods and biology

Advanced Bacterial Genetics: Use of Transposons and Phage for Genomic Engineering

,2007-02-27 The critically acclaimed laboratory standard for more than fifty 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 over 400 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. This new volume presents methods related to the use of bacterial genetics for genomic engineering. The book includes sections on strain collections and genetic nomenclature, transposons, and phage. **Adult Stem Cells**, 2006-12-11. This is the second of three planned volumes in the Methods in Enzymology series on the topic of stem cells. This volume is a unique anthology of stem cell techniques focusing on adult stem cells and written by experts from the top laboratories in the world. The contributors not only have hands-on experience in the field but often have developed the original approaches that they share with great attention to detail. The chapters provide a brief review of each field followed by a cookbook and handy illustrations. The collection of protocols includes the isolation and maintenance of stem cells from various species using conventional and novel methods such as derivation of ES cells from single blastomeres, differentiation of stem cells into specific tissue types, isolation and maintenance of somatic stem cells, stem cell-specific techniques, and approaches to tissue engineering using stem cell derivatives. The reader will find that some of the topics are covered by more than one group of authors and complement each other. Comprehensive step-by-step protocols and informative illustrations can be easily followed by even the least experienced researchers in the field and allow the setup and troubleshooting of these state-of-the-art technologies in other laboratories. Provides complete coverage spanning from derivation, isolation of stem cells, and including differentiation protocols, characterization, and maintenance of derivatives and tissue engineering. Presents the latest most innovative technologies. Addresses therapeutic relevance including FDA compliance and tissue engineering. Methods in Enzymology, Alan Kimmel, Brian Oliver, 2006. DNA Microarrays, Part A: Array Platforms and Wet-Bench Protocols, 2006-09-11. Modern DNA microarray technologies have evolved over the past 25 years to the point where it is now possible to take many million measurements from a single experiment. These two volumes, Parts A and B in the Methods in Enzymology series, provide methods that will shepherd any molecular biologist through the process of planning, performing, and publishing microarray results. Part A starts with an overview of a number of microarray platforms, both commercial and academically produced, and includes wet bench protocols for performing traditional expression analysis and derivative techniques such as detection of transcription factor occupancy and chromatin status. Wet bench protocols and troubleshooting techniques continue into Part B. These techniques are well rooted in traditional molecular biology and while they require traditional care, a researcher that can reproducibly generate beautiful Northern or Southern blots should have no difficulty generating beautiful array hybridizations. Data management is a more recent problem for most biologists. The bulk of Part B provides a range of techniques for data handling. This includes critical issues from normalization within and between arrays to uploading your results to the public repositories for array data and how to integrate data from multiple sources. There are chapters in

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DNA Microarrays Alan Kimmel,Brian Oliver,2007 DNA Microarrays, Part B: Databases and Statistics ,2006-09-11

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DNA Microarrays, Pt. A Brian Oliver,2006 DNA Microarrays Brian Oliver,2006 DNA Microarrays, Part B:

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visualization and meta analysis **DNA Microarrays, Part B: Databases and Statistics** ,2006-08-28 Modern DNA microarray technologies have evolved over the past 25 years to the point where it is now possible to take many million measurements from a single experiment These two volumes Parts A B in the Methods in Enzymology series provide methods that will shepard any molecular biologist through the process of planning performing and publishing microarray results Part A starts with an overview of a number of microarray platforms both commercial and academically produced and includes wet bench protocols for performing traditional expression analysis and derivative techniques such as detection of transcription factor occupancy and chromatin status Wet bench protocols and troubleshooting techniques continue into Part B These techniques are well rooted in traditional molecular biology and while they require traditional care a researcher that can reproducibly generate beautiful Northern or Southern blots should have no difficulty generating beautiful array hybridizations Data management is a more recent problem for most biologists The bulk of Part B provides a range of techniques for data handling This includes critical issues from normalization within and between arrays to uploading your results to the public repositories for array data and how to integrate data from multiple sources There are chapters in Part B for both the debutant and the expert bioinformatician [DNA Microarrays, Part A: Array Platforms and Wet-Bench Protocols](#) ,2006-09-11 Modern DNA microarray technologies have evolved over the past 25 years to the point where it is now possible to take many million measurements from a single experiment These two volumes Parts A B in the Methods in Enzymology series provide methods that will shepard any molecular biologist through the process of planning performing and publishing microarray results Part A starts with an overview of a number of microarray platforms both commercial and academically produced and includes wet bench protocols for performing traditional expression analysis and derivative techniques such as detection of transcription factor occupancy and chromatin status Wet bench protocols and troubleshooting techniques continue into Part B These techniques are well rooted in traditional molecular biology and while they require traditional care a researcher that can reproducibly generate beautiful Northern or Southern blots should have no difficulty generating beautiful array hybridizations Data management is a more recent problem for most biologists The bulk of Part B provides a range of techniques for data handling This includes critical issues from normalization within and between arrays to uploading your results to the public repositories for array data and how to integrate data from multiple sources There are chapters in Part B for both the debutant and the expert bioinformatician Provides an overview of platforms Includes experimental design and wet bench protocols Presents statistical and data analysis methods array databases data visualization and meta analysis [Array Platforms and Wet-bench Protocols](#) Alan R. Kimmel,Brian Oliver,2006

Microarrays Jang B. Rampal,2007-07-27 Microarray Technology Volumes 1 and 2 present information in designing and fabricating arrays and binding studies with biological analytes while providing the reader with a broad description of microarray technology tools and their potential applications The first volume deals with methods and protocols for the

preparation of microarrays The second volume details applications and data analysis which is important in analyzing the enormous data coming out of microarray experiments Among the topics discussed in Volume 1 Synthesis Methods are matrices in the synthesis of microarrays array optimization processes array based comparative genomic hybridization 60 mer oligonucleotide probes bifunctional reagents NTMTA and NTPAC and high density arrays using digital microarray synthesis platforms Other topics include multiplex ligation dependent probe amplification MLPA hybridization conditions in situ synthesized oligo arrays peptide arrays high density replication tools HDRT protocols for the quantification of oligo hybridization glyco bead arrays and an investigation into the emerging nano technology Microarray Technology Volumes 1 and 2 provide ample information to all levels of scientists from novice to those intimately familiar with array technology

DNA Arrays Jang B. Rampil, 2008-02-02 Microarray technology provides a highly sensitive and precise technique for obtaining information from biological samples with the added advantage that it can handle a large number of samples simultaneously that may be analyzed rapidly Researchers are applying microarray technology to understand gene expression mutation analysis and the sequencing of genes Although this technology has been experimental and thus has been through feasibility studies it has just recently entered into widespread use for advanced research The purpose of DNA Arrays Methods and Protocols is to provide instruction in designing and constructing DNA arrays as well as hybridizing them with biological samples for analysis An additional purpose is to provide the reader with a broad description of DNA based array technology and its potential applications This volume also covers the history of DNA arrays from their conception to their ready off the shelf availability for readers who are new to array technology as well as those who are well versed in this field Stepwise detailed experimental procedures are described for constructing DNA arrays including the choice of solid support attachment methods and the general conditions for hybridization With microarray technology ordered arrays of oligonucleotides or other DNA sequences are attached or printed to the solid support using automated methods for array synthesis Probe sequences are selected in such a way that they have the appropriate sequence length site of mutation and T

Microarray Methods and Protocols Robert S. Matson, 2009-01-20 A Step by Step Guide to Present and Future Uses of Microarray Technology Microarray technology continues to evolve taking on a variety of forms From the spotting of cDNA and the in situ synthesis of oligonucleotide arrays now come microarrays comprising proteins carbohydrates drugs tissues and cells With contributions from microarray experts

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