

Microarrays Preparation Microfluidics Detection Methods And Biological Applications Integrated Analytical Systems

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Microarrays Preparation Microfluidics Detection Methods

Microarrays: Preparation, Microfluidics, Detection Methods, and Biological Applications (Integrated Analytical Systems) - Kindle edition by Dill, Kilian, Liu, Robin, Grodzinsky, Piotr. Download it once and read it on your Kindle device, PC, phones or tablets.

Microarrays: Preparation, Microfluidics, Detection Methods ...

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Microarrays: Preparation, Microfluidics, Detection Methods ...

Microarrays Preparation, Microfluidics, Detection Methods, and Biological Applications ... is looking for a broader perspective on applications. It will also be useful to those focused on electrochemical detection and microfluidics in microarrays." (Peter Wentzell, Journal of the American Chemical Society, Vol. 131 (36), 2009) ... Preparation ...

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Integrated Analytical Systems Ser.: Microarrays ...

Microarrays : preparation, microfluidics, detection methods, and biological applications. [Kilian Dill; Robin Hui Liu; Piotr Grodzinski;] -- The area of microarrays has evolved from genomics, and has been applied to proteomics and single cell studies as well. The applications of microarrays benefit diverse fields ranging from fundamental ...

Microarrays : preparation, microfluidics, detection ...

ISBN: 9780387727165 0387727167 9780387727196 0387727191: OCLC Number: 643441541: Description: xv, 356 pages : illustrations ; 24 cm: Contents: The current status of DNA microarrays / Leming Shi, Roger G. Perkins, and Weida Tong --Electrochemical detection on microarrays / Kilian Dill and Andrey Ghindilis --Fully integrated microfluidic device for direct sample-to-answer genetic analysis ...

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Microarrays | SpringerLink

Complete analysis of nucleic acid involves steps such as cell concentrating, capture, cell lysis, nucleic acid purification, amplification, and final detection. Microfluidic integrated microarrays have been used in the identification of *Bacillus* species, *Yersinia enterocolitica*, influenza, and fungal pathogens (Dutse and Yusof, 2011). Nucleic acid detection is highly sensitive and specific due to target amplification and base-pairing interactions.

Microfluidics application for detection of biological ...

For detection methods that do require an intermediate cell culture stage, microfluidics devices can be equipped with micro-channels that can supply nutrients (inputs) and remove bio-wastes. Additional channels may be needed for the system manipulation and for the implementation of the desired interventions.

Point-of-care microfluidic devices for pathogen detection ...

Another aspect of the present invention provides methods that include: providing a system including a manifold having a plurality of via holes in fluid communication with a plurality of microchannels disposed on a microfluidic chip; the microfluidic chip including a microarray: the microfluidic chip capable of transmitting light to the microarray; the microfluidic chip secured to the manifold; an illuminator for providing the light; and a detector in optical communication with the microarray ...

Microfluidic microarray systems and methods thereof ...

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Fluorescence in situ hybridization (FISH) is a molecular cytogenetic technique that uses fluorescent probes that bind to only those parts of a nucleic acid sequence with a high degree of sequence complementarity. It was developed by biomedical researchers in the early 1980s to detect and localize the presence or absence of specific DNA sequences on chromosomes.

Fluorescence in situ hybridization - Wikipedia

microarrays. Integrated functions include microfluidic assay operations and detection, as well as sample pre-treatment and preparation. So far there are two different generations of microfluidic biochips, namely continuous-flow biochips and droplet-based microfluidic biochips. 2.2. Microfluidics 2.2.1 Continuous-flow microfluidics

Design Automation Challenges for Microfluidics-Based Biochips*

Combinatorial chemistry is used to find materials that form sensor microarrays. This book discusses the fundamentals, and then proceeds to the many applications of microarrays, from measuring gene expression (DNA microarrays) to protein-protein interactions, peptide chemistry, carbohydrate chemistry, electrochemical detection, and microfluidics.

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A microarray is a multiplex lab-on-a-chip. It is a two-dimensional array on a solid substrate —usually a glass slide or silicon thin-film cell —that assays (tests) large amounts of biological material using high-throughput screening miniaturized, multiplexed and parallel processing and detection methods.

Microarray - Wikipedia

The analyte detection clarifies if the antibody microarray can potentially fulfill the detection of low concentrated biomarkers. To prove the analyte detection with the prepared high-density arrays, the antigen was directly labeled with a fluorescence dye.

Fabrication of Homogeneous High-Density Antibody ...

The standard deviations of log₂ intensity for unexpired U133Plus2 microarrays (2.32 for sample A and 2.30 for sample B) are also higher than those for expired U133A microarrays (1.93 for sample A and 1.95 for sample B), indicating a decrease in the ability of expired microarrays to distinguish differences of expression levels among genes in ...

Evaluation of gene expression data generated from expired ...

Microfluidics refers to the behaviour, precise control, and manipulation of fluids that are geometrically constrained to a small scale (typically sub-millimeter) at which surface forces dominate volumetric forces. It is a multidisciplinary field that involves engineering, physics, chemistry, biochemistry, nanotechnology, and biotechnology. It has practical applications in the design of systems ...