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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

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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-

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protein interactions, peptide chemistry,
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detection, and microfluidics.

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Complete analysis of nucleic acid involves
steps such as cell concentrating, capture, cell

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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

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Microfluidics application for detection of biological ...

Different methods have been grouped together based on their signal output to compare the performances of each microfluidic device. Among all the methods

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reviewed, the limit of detection (LOD) of most microfluidic detection ranges from 0.01 to 30 000 ng/ml with fluorescence, chemiluminescence, and colorimetry format, depending on the detection ...

Microfluidic immunoassay for detection of serological ...

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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.

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Overall, this proof-of-concept study has demonstrated the first implementation of microfluidic-based ELISA as a superior alternative diagnostic method for plant pathogen detection. Test results could be

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obtained within 90 – 140 min less time (not including the overnight incubation needed for traditional ELISA), consuming 2 – 20 folds less sample and 5 – 10 folds less antibody.

Implementation of Microfluidic Sandwich
ELISA for Superior ...

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To support, supplement, or complement microarrays, standardized or customized microfluidic devices can be useful for rapid sample preparation and screening of samples where labile targets may suffer degradation (especially mRNAs) or low yield (e.g., microRNAs), quality control of reagents, detecting the presence of inhibitor

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substances and other interfering components, before the samples are subjected to more costly and time-consuming microarray analysis or sequencing.

Integrated Microfluidic Nucleic Acid
Isolation, Isothermal ...

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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

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microarray; the microfluidic chip secured to the manifold; an illuminator for providing the light; and a detector in optical communication with the microarray ...

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The probes are synthesized prior to deposition on the array surface and are then "spotted" onto glass. A common approach utilizes an array of fine pins or needles controlled by a robotic arm that is dipped into wells containing DNA probes and then depositing each probe at designated

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Locations on the array surface. And

Biological Applications

DNA microarray - Wikipedia

Today, there are a few reports tackling these challenges, for example, by improving current detection methods, using electrochemical assays 7, 8 or developing pH based POC tests. 9 However, these

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approaches still need error-prone
amplification steps prior to the miRNA
detection, have rather tedious preparation
steps, or are limited by the ...

CRISPR/Cas13a Powered
Electrochemical Microfluidic ...
carbohydrate microarrays biological

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A microfluidic hydrogel DNA microarray is developed to overcome the limitations of conventional planar microarrays such as low sensitivity, long overnight hybridization time, lack of a melting verification of proper

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hybrid, and complicated sample preparation process for genotyping of clinical samples.

Microfluidic hydrogel arrays for direct genotyping of ...

The early methods had the advantage of easier detection from certain machines like those that measure fluorescence. More

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recent designs have fully integrated HPLC columns into microfluidic chips. The main advantage of integrating HPLC columns into microfluidic devices is the smaller form factor that can be achieved, which allows for additional features to be combined within one microfluidic chip.

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