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be useful to those

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microarrays." (Peter

Wentzell, Journal of the

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Leming Shi, Roger G.

Perkins, Weida Tong

(auth.), Kilian Dill,

Robin Hui Liu, Piotr

Grodzinski (eds.) The

area of microarrays

has evolved from

genomics, and has

been applied to

proteomics and single

cell studies as well.

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Status of DNA

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Shi, Roger G. Perkins,

Weida Tong. ... Protein

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Biothreats. Amy E.

Herr. Pages 169-190.

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biochemical analysis

shows distinctive

advantages for fast

detection of

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pathogenic

microorganisms. This

Feature summarizes

the progress in the

past decade on

microfluidic methods

for purification and

detection of

pathogenic bacteria

and viruses as well as

their applications in

food safety control,

environmental

monitoring, and clinical

diagnosis.

Detection of

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Pathogenic

Microorganisms by

Microfluidics ...

Most of the microfluidics employs combination of electrochemical and optical or label-free detection techniques, nanotechnology advanced detection systems and antibody microarray systems (Myers and Lee, 2008).

**Microfluidics
application for**

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detection of

biological ...

Microfluidics refers to the behaviour, precise control, and

manipulation of fluids that are geometrically constrained to a small

scale (typically sub-millimeter) at which capillary penetration governs mass

transport. It is a multidisciplinary field that involves engineering, physics, chemistry,

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biochemistry, nanotechnology, and biotechnology. It has practical applications in the design of ...

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**Microfluidics -
Wikipedia**

The main application of

microfluidics in pathogen detection involves DNA based methods. In this case, a very promising approach for future applications involves the combination of real-

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time PCR and

microarray

technologies (Real-

Time Array PCR) that

allow multiplex

pathogen detection.

Microfluidic Systems for Pathogen

Sensing: A Review

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biological applications.

[Kilian Dill; Robin Hui

Liu; Piotr Grodzinski;] --

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diverse fields ranging

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LSPR Microarray Chip

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Supporting Information

Figure S1) with 10

turns on a glass
substrate (Figure

1a). Each microfluidic

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channel can hold 250
nL in volume and has

Detection

Multiplex Serum

Cytokine

Immunoassay Using

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The approach is based
on two technical

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components: (1) a DNA fragment detector with a sensitivity of ~ 100 femto-molar that is at least 10-fold better than the present technology, and (2) a sample preparation system allowing rapid and efficient concentration of the DNA (or protein) samples. Both components utilize monodisperse magnetic nanoparticles (nanotags) with a

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mean diameter ranging from 10 to 100 nm to label pathogen targets.

Detection

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Rapid Magnetic DNA and ...

Disclosed are systems that include a manifold in fluid communication with a microfluidic chip having a microarray, an illuminator, and a detector in optical communication with the microarray.

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Methods for using these systems for biological detection are also disclosed.

Detection

Methods And

**Microfluidic
microarray systems
and methods thereof**

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Biological Applications

Springer: New York

January 1, 2009

Electrochemical

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