



## TECHNOLOGY

# Cell Sensor Based Pathogen Detection

## OVERVIEW

A tremendous amount of research and development efforts are being dedicated to bio-chemical pathogen detection. Current commercially available pathogen detection systems have an unacceptably high rate of false positive results.

This new technology will enable selective pathogen detection by exploiting the signaling machinery of living cells.

Cell level pathogen detection will function by monitoring the response of cells when exposed to a specific external pathogen. Developed by University of Maryland and Johns Hopkins University researchers, this technology combines bioengineering with micro-engineered hardware, creating an improved system for pathogen detection. This technology has applications in homeland security, pathogen detection as well as pharmaceutical screening.

For additional information and licensing opportunities, please contact Gayatri Varma at the Office of Technology Commercialization, University of Maryland. Phone: 301-405-2960. Email: [gayatri@umd.edu](mailto:gayatri@umd.edu)

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## Additional Information

### INSTITUTION

University of Maryland, College Park

### PATENT STATUS

Patent(s) pending

### LICENSE STATUS

Contact OTC for licensing information

### CATEGORIES

- Bioengineering

### EXTERNAL RESOURCES

PS-2004-083