TECHNOLOGY

Cell-Based Sensing: Biological Transduction of Chemical Stimuli to Electrical Signals (Nose-on-a-Chip)

OVERVIEW

Electronic noses are being developed as systems for the automated detection and classification of vapors and gases. Most often they are composed of a chemical sensing system (eg. sensor array or spectrophotometer) and a pattern recognition system (ie. artificial neural network).

Researchers at the University of Maryland are developing cell based chemical sensors. These novel sensors will offer an opportunity for both sensitivity and specificity that cannot be matched by conventional electronic noses.

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

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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

- Chemical
- Microelectronics

EXTERNAL RESOURCES

- US Patent 8,152,992

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