



TECHNOLOGY

Thermo-Bio-Lithography

OVERVIEW

This invention relates to methods for the controlled and selective deposition of a resist of one or more species of molecules, including biomolecules, onto an organic reactive layer such as a polysaccharide mass.

Researchers at the University of Maryland have developed a method which accomplishes this deposition electrochemically or by casting. Selective removal of the resist exposes active sites of the reactive layer for conjugate bonding with other molecules, including biomolecules such as proteins, nucleic acids, drugs such as opiates, and even whole cells.

This invention will find use in microfluidic systems, biosensors, and microelectromechanical systems (MEMS).

An international patent application has been filed.

The University of Maryland College Park, the University of Maryland Baltimore County and the University of Maryland Biotechnology Institute are the owners of this technology.

For more information please contact the University of Maryland, College Park, Office of Technology Commercialization, (301) 405-3947 or by e-mail at otc@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

- Microfluidics
- Nanotechnology + Nanoparticles + Nanomaterials

EXTERNAL RESOURCES

- [US Patent 7,820,227](#)

PS-2003-093