Biomedical Microdevices

BioMEMS and Biomedical Nanotechnology

Editor-in-Chief: M. Ferrari

► Covers research in the diagnostic and therapeutic applications of Micro-Electro-Mechanical Systems, microfabrication, and nanotechnology
► Explores design, characterization, testing, modeling and validation of microfabricated systems, and their integration
► Investigates interactions of microdevices with cells and tissues, including biocompatibility and biodegradation
► 91% of authors who answered a survey reported that they would definitely publish or probably publish in the journal again

Biomedical Microdevices covers research in the diagnostic and therapeutic applications of Micro-Electro-Mechanical Systems, microfabrication, and nanotechnology. Topics include design, characterization, testing, modeling and clinical validation of microfabricated systems, and their integration on-chip and in larger functional units. The interests of the journal include systems for neural stimulation and recording; bioseparation technologies such as nanofilters and electrophoretic equipment; miniaturized analytic and DNA identification systems; biosensors; microtechnologies for cell and tissue research; tissue engineering; cell transplantation and the controlled release of drugs and therapeutic proteins. Coverage extends to biochemical modification and non-specific protein adsorption; fluid dynamics in micro- and nano-fabricated channels; electromechanical and structural response of microfabricated systems; interactions of microdevices with cells and tissues, including biocompatibility and biodegradation; and more.

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