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TOPICS

Microtechnology Advances:

- 11 Bio-inspired/Biomimetic/Bio-Hybrid Microdevices
- 12 Bionanotechnology/Nanostructured Substrates/
Self Assembly/Molecular Nanostructures
- 13 Microrobots/Actuators for Biomedicine
- 14 Micro-/Nanofluidic Technology Advances
- 15 Micro Phenomenon and Scaling Effects
- 16 Novel Fabrication Methodologies/Packaging
- 17 Micro Imaging Techniques
- 18 BioMEMS Modeling and Simulation

Biotechnology Applications:

- 21 Microanalytical (Microfluidic) Devices
- 22 Microdevices for Bioagent Detection
- 23 Diagnostics Devices/Point-of-Care Devices
- 24 Implantable Microdevices/Microsurgery
- 25 Micro/Nanoscale Drug Delivery Systems
- 26 Personalized Medicine
- 27 Global Health

Tissue Engineering Applications:

- 3.1 Micro/Nanoscale Tissue Constructs
- 3.2 Biomimetic Substrates/3D and Microscale
in-vitro Models
- 3.3 Bioreactors
- 3.4 Micro/Nanoengineering Cell-Substrate Interactions
- 3.5 Organoids
- 3.6 Bioelectronic Interfaces

Cell/Molecular Biology:

- 4.1 Cellular and Protein Analysis Platforms
- 4.2 Cell-Based Sensors and Sensing Platforms
- 4.3 Protein-Substrate Interactions
- 4.4 Cell Adhesion, Growth & Migration in
Microstructured Environments
- 4.5 MEMS-Based Biomechanical Measurements
- 4.6 Systems Biology
- 4.7 *C. Elegans*
- 4.8 Stem cells
- 4.9 Electrophysiology