



MEMS Based Systems for Cell Motility

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Message from the Guest Editor

Dear Colleagues,

Fundamental questions about cell behavior in normal and pathological states can be addressed via understanding how cells sense externally applied forces and the ways these forces are responsible for biochemical reactions inside the cell. Cell behavior is also highly sensitive to the mechanical properties of the substrates on which the cells are grown. Cell differentiation, locomotion and growth and development are all influenced by the mechanical properties of the microenvironment. The measurement of these forces can be implemented via MEMS-based sensors due to their size and force resolution comparable with the cell size and stiffness.

This Special Issue will present the state of art of MEMS-based systems for cell motility studies.

Prof. Dr. Arkady Voloshin

Guest Editor





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Message from the Editor-in-Chief

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