

Special Issue

MEMS Based Systems for Cell Motility

Message from the Guest Editor

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.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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