## 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**

Prof. Dr. Arkady Voloshin

- 1. Department of Mechanical Engineering and Mechanics, Lehigh University, Bethlehem, PA 18015, USA
- 2. Department and Bioengineering, Lehigh University, Bethlehem, PA 18015, USA

## Deadline for manuscript submissions

closed (30 April 2019)



# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## mdpi.com/si/18765

Applied Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 applsci@mdpi.com

mdpi.com/journal/applsci





## Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## **About the Journal**

## Message from the Editor-in-Chief

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

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

### **Author Benefits**

## **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

