



Molecular Advances in Cell Mechanics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on molecular advances in nano-mechanical measurements of cells properties using techniques such as scanning force microscopy, laser pinzette, or optical tweezers. Topics of interest will include investigation of cancer cells, erythrocytes, or endothelial cells. Measuring the nanomechanical properties of cells presents a major challenge for researchers in this area. Open questions regarding the effective role of cytoskeleton or connected proteins such as E-cadherin are still not totally understood, and therefore, efforts are required from the scientific community to overcome experimental issues, which have hampered actual knowledge. In this issue, the principles and techniques used in studies of cell biomechanics will be one of main themes. The publication of original articles and reviews will contribute to the overview progress in the area of cytomechanics, paving the way toward a deeper understanding of the still hidden physiobiological mechanisms involved in the mechanical properties of cells.

Prof. Dr. Stefano Loporatti

Guest Editor





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Message from the Editor-in-Chief

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