

MODELING OF BIOLOGICAL CELLS DEFORMATION IN MICROFLUIDIC SYSTEMS

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Запропоновано методи моделювання деформації біологічних клітин у мікрофлюїдних пристроях. Описані передумови і цілі розроблення механічної моделі живої біологічної клітини для поліпшення моделювання та автоматизованого проєктування пристроїв для мікрофлюїдних пристроїв біоаналізу та діагностики.

Ключові слова: мікрофлюїдика, біологічна клітина, автоматизоване проєктування.

This paper is devoted to the modeling of biological cells deformation in microfluidic systems. The background and purposes of development of the mechanical model of the living biological cell to improve modelling and computer aided design of microfluidic devices for bioanalysis and diagnostics were described.

Key words: microfluidics, biological cell, computed aided design.

Introduction

Nowadays microfluidic devices are widely used in various fields, especially in biotechnology, medicine and pharmaceuticals, as they allow carrying out fast analysis, are highly portable and easily transportable, require fewer amounts of reagents and samples, and provide more accurate results [1].

Biochemical and biophysical markers usually determine state of the cell. Although biochemical markers are used very widely, internal biophysical markers, such as the ability to change the shape under mechanical stress, have some advantages, because it does not require labeling or valuable sample preparation. Nevertheless, modern techniques, which are using the mechanical properties of the cells, have currently limited use in clinical trials and studies, which are related to cell biology [2, 5].

One of the newest methods of biological analysis is the analysis, which is based on the mechanical properties of biological cells. Studying of the properties of elasticity allows getting new knowledge about biological cells and causes a clinical interest. Mechanical properties of whole, intact cells are associated with various cellular events, such as movement, differentiation and aging, physiological and electrical activity, as well as the pathology of cells [3].

Formulation of the problem

There are more evidences in favor of that the deformation of cells (i.e., the ability to change shape under the load) is a useful indicator of changes in the cytoskeleton and nuclear organization, and can provide the definition of the state or properties of cells without the use of biomarkers, such as metastatic potential, stage of life cycle of cell, degree of differentiation and activation of leukocytes. Clinically, this measure of malignancies and metastatic potential in tissues or biological fluids may adjust treatment decisions, or measures the degree of differentiation can prevent transplantation of undifferentiated stem cells in regenerative oncogenic therapy. For drugs and personalized medicine, the integrity of the cytoskeleton in simple measure can allow the screening of drugs action or evaluate cytoskeleton drug resistance in biopsy samples. In addition, measures of activation of leukocytes are strong predictors of disease prognosis and response to the treatment on patients with HIV-1 infection or allotransplants rejection [5].

Deformation Flow In Biological Systems

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