

The fundamental biological constants

Фундаментальные биологические константы

MOLPIT Seminar of 23/11/2013

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... люблю более всего - творить ... творить пока сырые **фундаментальные биологические константы**, сочинять биологические меры и пытаться вникнуть ...

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Биологические меры

Благодаря Татьяне Дмитриевне Колесниковой (<http://tbio.molpit.ru/lectures/epigeneticeskie-mehanizmy>) и команде МОЛПИТ (<http://molpit.com/?page=46>) сейчас я глубже понимаю, что буду делать то, что люблю более всего - творить ... творить пока сырые фундаментальные биологические константы, сочинять биологические меры и пытаться вникнуть в то, как клетки понимают друг друга, на каком языке они разговаривают и как умудряются договориться между собой, чтобы не перепутать ткань и орган, которым сами клетки будут принадлежать и в то же самое время создавать и поддерживать эту ткань и этот орган ... захватывающе чудная симфония жизни ... не оторваться!

28/10/13 1:14К



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... 1991). Therefore it seems to be one of **the fundamental biological constants**. The theoretical basis for the "quarter-power law" was proposed recently on the grounds of fractal geometry (West et al. 1997; see also Williams 1997). ...

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CELL-TO-CELL MICROFLUIDIC INTERACTION MODELS IN THE SCIENCE OF HEALTH

Andrey A. Zimin,^{1,a)} Ivan A. Denisov,¹ Anton S. Yakimov,¹ Irina V.

Belyanina,¹ Violetta S. Nikiforova,¹ Kirill A. Lukyanenko,¹ and Peter I. Belobrov^{1,2}

¹*MOLPIT, Institute of Fundamental Biology and Biotechnology, Siberian Federal University, 660041 Krasnoyarsk, Russia*

²*Kirensky Institute of Physics & Institute of Biophysics SB RAS, 660036 Krasnoyarsk, Russia*

ABSTRACT

We provide here detailed discussion on the introduction of biological measures and on the nature of the biological signals. The theory of absolute and

Keywords: fundamental biological constants, biological measures, cell-to-cell measurement, droplet microfluidic models.

ABSTRACT. We provide here detailed discussion on the introduction of biological measures and on the nature of the biological signals. The theory of absolute and relative biological measures has been briefly analyzed in case of mutual cell-cell and cell-tissue measurement. We focus on the biological signals and droplet microfluidic principles of cell-cell interaction modeling and biological measurements. Analysis of the theory of network organization with similar properties of structures and functions of biological particles is presented in the overview, and theory of collective multilevel hierarchical organization that can form the basis of the description of the internal structures and relative biological measures is proposed. We further analyze possible applications of the discussed theoretical approaches to understand the measurement problems in modern biology and in the science of health.