

ORGANISM ADAPTATION IN THE INFORMATIONAL EPOCH

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What the people will present in the near future, how the medicine, biocybernetics, bionics as well other sciences will develop for an ensuring of human adaptation and his health to the new life conditions in the informational epoch of XXIst century?

In contemporary concept the biological evolution is a result of confrontation between beings and environment in fight for existence. To note that the changes of organisms reached during historical evolution are due to tendency of a relevant gain of independence concerning the external environment. Aristotel, the founder of global evolution, underlined the tendency nature perfection (entelekia) [1]. The entity of this tendency comprised the significance of adequate reactivity needed for adaptation and perfecting as a tool.

Technical resolution of some physiological and pathophysiological problems appeared during technological progress is possible only if will know better the adaptation capacities, their real mechanisms, and will understand better concurrent possibilities an individual and another one, whose organism contains mechanical and electronic compounds (man-cyber).

The made by human objects are always a product of previous mind, "projecting" leading to emphasizing of object traits and choosing of pathways for result achieving (the man created "exosomatic tools" outside of body, but improve biological potential based on "endosomatic tools (named by Alfred Lotka [2]) imminent to animals (claws, wings)...).

Upon on this phenomenon indicated also the founder of cosmos, N.Fiodorov (Gagarin) [3], underlining that the exosomatic tool technologies of humanity will be changed sometime in improving scientific paradigm of the human body and its endosomatic machinery: "Our body will become our occupation" (1890). His follower, founder of cosmonautics, C. Tsiolcovschii [3] approached the problem of connection between biomechanics and body physiology, as well as main constants of cosmic space, consolidating plausibility of a artificial habitat creating (1882) regarding the principal of bionics construction.

The radical modifications referring to XXIst century and regarding life style enriched in hypokinetic pattern and information excess claim an elaboration of new strategies of health maintenance with new and intelligent technologies elaborations needed for human adaptive capacity keeping in new social conditions based on settling of diverse biological, medical and technical problems, and especially ethical, spiritual and conceptual aspects.

[1] Aristotel. *Metaphysics*. M.-1934.

[2] *Lotka A.J. Theorie analytique des associations biologiques*, pt. 1 — 2, Paris, 1934-39.

[3] Scripnic V. et al. Theoretical, clinical and experimental study of organism reactivity and resistance during altitude hypoxic adaptation: influence of systemic and local bioregulators on hemodynamics. *The Works of the X-th Russian scientific-practical conference with international participation: "Health - the basis of human development: Problems and Solutions."* St. Petersburg, 2015, vol. 2, p. 787.