

## FUNCTIONAL SYMMETRY AND HOMEOSTASIS

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Biorhythms and reactions are the major properties of a functioning organisms. They are closely interrelated and have a common determinator(parameter)- the REACTION RATE. All living beings are divided by this parameter into functional symmetrical groups - Left-,Righthanded and Symmetrical(L,R,S) with numerous transitional types. The type of functional symmetry of organisms(L,R,S) is determined by the curve slope in biorhythm when the parameter is measured two any time point of day(1).Functional Symmetry emerged at the confluence of the biosymmetry and biorhythmology. It concerns itself with biorhythms,reactivity and homeostasis regulations in organisms.

Functional symmetry studies demonstrate that there are the enantiomorphic(i.e. mirror, mutual opposite) biorhythms and reactions. The MIRROR quality of a reactions and rhythms is the one of the basic principle of functional symmetry underlying of activity of an organisms (1).

The other principle of the functional symmetry is HARMONY - proportional relationship between the parts and the whole. Harmony is expressed via a proportion and expressed by a definite numbers, for example,the Golden Section with the invariant  $I = 1,618$  or Fibonacci series which form of the basis of functional homeostasis in living beings.The organisms are functioning with close connection with the environment and first of all with main physical factors as Geomagnetic and Gravity Fields. The Astro-planetary-helio-geophysical factors create Phenotypical Variability of a living beings(2,3). The main our conclusions are:The living system homeostasis is based on the laws of SYMMETRY and HARMONY.The living beings

homeostasis is determined by a geophysical factors. The main characteristic features of the living beings homeostatics are: synergetics of propereties, stochasticity of a elementary processes and acts, harmony, symmetry, mirror biorhythms and close relationship with the environment. These properties should be taken into account for studing the living beings systems and their homeostatis and clarifying the laws of their activity.

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