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THE FUNDAMENTAL DEVELOPMENTS BRANCH

“COGNITIVE MODELING IN THE BIOLOGICAL SCIENCES” (“OBN”)  
OF “SRI "SFA CMT" OF "RA(N)S" N. A. VENIAMINOV V.N.”

The developed “The fundamental developments branch  
"Cognitive modeling in the biological sciences”” (“OBN”)  
treats to the fundamental developments divisions  
of “The scientific-research institute "System and financial analysis based on  
cognitive modeling technology" of "RA(N)S" named after Veniaminov V.N.”  
 (“SRI "SFA CMT" of "RA(N)S" n. a. Veniaminov V.N.” – SRI) as the first SRI  
in the structure of “SIO "Academy of cognitive natural sciences”” (“SIO "ACNS””)  
and the add. component of the system of science and education of the modern country  
for the creation, distribution and use of the main and derivative  
scientific results of the cognitive modeling technology (CMT) (www.vetrovan.(spb.)ru)  
[see the fundamental developments branches and departments of SRI]:  
1) it is executed by the principle of “administrative-economy submission”;  
2) works in the several main directions, which allow to provide  
the development of the fundamental main and derivative scientific results  
(my second report on SRW from 2006-2008(9) y. was submitted  
to “SPbSETU "LETI”” and “The Government of RF”  
for the translation, carrying out of int. action and receiving of “The Nobel prize”);  
3) includes the several various main divisions:  
I. “The fundamental developments department  
"Theory of biology and pharmacology”” (“SOB”)  
*[the fundamental developments in the area  
“Theoretical biology”* –  
theory of biology, theory of the methods and equipment for the biological researches,  
theory of molecular biology, theory of bio-physics, theory of cytology,  
theory of embryology, theory of genetics,  
theory of virology, theory of micro-biology,  
theory of botany, theory of physiology of plants,  
theory of zoology, theory of ecology, theory of anthropology,  
theory of physiology of human and animals,  
theory of morphology of human and animals,  
theory of immunology, theory of pharmacology,  
theory of toxicology, theory of radiation biology,  
theory of space biology, theory of bionics,  
theory of bio-cybernetics, theory of bio-engineering,  
theory of the cognitive modeling technology  
in the theoretical biology,  
theory of modeling of the biological construct of organism of the organic individual;

*the fundamental developments in the area “ Theoretical pharmacology ”* – theory of pharmacology, theory of the methods and equipment for the pharmacological researches, theory of the pharmaco-kinetics and pharmaco-dynamics of preparations and substances, theory of molecular pharmacology, theory of bio-pharmacology, theory of cytological pharmacology, theory of embryological pharmacology, theory of genetic pharmacology, theory of virological pharmacology, theory of micro-biological pharmacology, theory of botanical pharmacology, theory of physiological pharmacology of plants, theory of zoological pharmacology, theory of ecological pharmacology, theory of anthropology of pharmacology, theory of physiological pharmacology of human and animals, theory of immunological pharmacology, theory of toxicological pharmacology, theory of radiation pharmacology, theory of space pharmacology, theory of bio-engineering pharmacology, theory of the cognitive modeling technology in the theoretical pharmacology].

II. “The fundamental developments department “Theory of physical-chemical bio-technology”” (“SFCHB”) (\*)

[*the fundamental developments in area “ Theoretical bio-technology ”* (\*) – theory of raw materials and products for the bio-technological manufacture, theory of bio-technological processes and devices, theory of cellular engineering, theory of technological bio-energetics, theory of applied genetic engineering, theory of engineering enzymology, theory of the immuno-bio-technological methods of analysis, the other theories and problems of bio-technology (genetic engineering), theory of the cognitive modeling technology in the theoretical physical-chemical bio-technology (theory of genetic engineering), theory of modeling of the structure of desoxyribonucleic acid based on the multidimensional cognitive cylinder].

The fundamental developments branches and departments of SRI allow to develop the main and derivative scientific results of CMT.