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THE FUNDAMENTAL SCIENTIFIC RESEARCHES BRANCH
“THEORY OF BIOLOGY, PHYSIOLOGY AND BIO-PHYSIOLOGICAL
TECHNOLOGIES IN MEDICINE” (“TBIOLPHYS AND B-PHYST IN M”)
OF “SEC "SFA CMT" OF "RA(M)S" N. A. ACAD. BURDENKO N.N.”

The developed “The fundamental scientific researches branch
"Theory of biology, physiology and bio-physiological
technologies in medicine” (“TBIOLPHYS and B-PHYST in M”)
treats to the fundamental scientific researches divisions
of “The scientific-educational centre "System and financial analysis based on
cognitive modeling technology" of "RA(M)S" named after acad. Burdenko N.N.”
 (“SEC "SFA CMT" of "RA(M)S" n. a. acad. Burdenko N.N.” – SEC) as the first SEC
in the structure of “SIO "Academy of cognitive natural sciences”” (“SIO "ACNS””)
as 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 scientific researches branches and departments of SEC]:
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 scientific researches department
"Theory of general biology”” (“TGENB”)
*[the fundamental scientific researches in the area
“Theoretical biology” –*
the theoretical bases of general biology, theory of biology,
theory of 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 parasitology, 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 person and animals,
theory of morphology of person 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
and the cognitive modeling technology in the theoretical biology
(theory of modeling of the biological construct of the organism of the organic individual)].

II. "The fundamental scientific researches department "Theory of physical-chemical bio-technology" ("TPHYS-CHEMB-T") (*) [*the fundamental scientific researches in the area "Theoretical bio-technology" (*)*] – the theoretical bases of bio-technology, theory of raw materials and producers for the bio-technological production, theory of radio-biology, theory of bio-physics, theory of molecular biology, theory of bio-chemistry, theory of bio-technologies and bio-nano-technologies, theory of molecular genetics, theory of bio-engineering, theory of mathematical biology and bio-informatics, theory of bio-technological processes and apparatuses, theory of cell engineering, theory of technological bio-energetics, theory of applied genetic engineering, theory of engineering enzymology, theory of the immune-bio-technological methods of the analysis, other theories and problems of bio-technology (genetic engineering) and the cognitive modeling technology in the theoretical bio-technology (theory of modeling of the structure of the desoxyribonucleic acid based on the cognitive cylinder)].

III. "The fundamental scientific researches department "Theory of physiology, bio-physiology and private physiology (of sensory systems)" ("TPHYSB-PHYS and PRPHYS (SS)") (*) [*the fundamental scientific researches in the area "Theoretical physiology" (*)*] – the theoretical bases of physiology, general questions of theoretical physiology, theory of methods and equipment for the physiological researches, theory of physiology, theory of molecular physiology, theory of physiological cytology, theory of physiological embryology, theory of physiological genetics, theory of physiology of viruses, theory of micro-physiology, theory of physiology of organic individuals, theory of physiology of plants, theory of zoological physiology, theory of ecological physiology, theory of anthropology of physiology, theory of physiology of person and animals, theory of physiological immunology, theory of physiological pharmacology and toxicology, theory of radiation physiology, theory of space physiology, theory of physiological cybernetics and the cognitive modeling technology in the theoretical physiology;

the fundamental scientific researches in the area “Theoretical bio-physiology and public-health-service” ()* – the theoretical bases of bio-physiology and public-health-service, general questions of theoretical bio-physiology and public-health-service, theory of bio-medical-physiological disciplines: theory of private physiology of analyzers and sensory systems, theory of bio-physiological materials, means and products, theory of bio-physiological technics, theory of clinical physiology, theory of physiological bio-pharmacology and bio-epidemiology, theory of other branches of bio-medicine and public-health-service, theory of social physiology, theory of organization and management of public-health-service, theory of modified model of reduced eye, theory of software for the automation of research tasks of the physiological, psychological and linguistic parameters of the parametrical cognitive models block in medicine, theory of statistical substantiation of the practical use of received results, theory of the physiological, psychological and linguistic factors influencing to the efficiency of functioning of the information-educational environment and the increase of productivity of the automated training system with the properties of adaptation based on the cognitive models, theory of organization and plan of carrying out of experiment, theory of research of the physiological, psychological and linguistic parameters of the cognitive models of the subject of training and the means of training, theory of preliminary processing of a posteriori results of diagnostics, theory of choice of methods of the statistical analysis of generated data sets, theory of the analysis of the dynamics of resultativity of the objects, processes and phenomena in bio-physiology and public-health-service, theory of the dispersion, regression, discriminant, cluster analysis, multidimensional scaling, factorial analysis and bibliographic lists, theory of the complex analysis of the modified model of reduced eye for the research of acuity of vision, field of vision, color perception and other parameters in Descartes space of the 2 and 3 coordinates and the cognitive modeling technology in the theoretical bio-physiology and public-health-service].

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

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“The Nobel committee” (The Kingdom of Norway and The Kingdom of Sweden)
(it was submitted to “SIO "ACNS"” on the int. conf. “APMS and T: CA” on the 01st-31st of March 2020 y.)