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THE APPLIED SCIENTIFIC RESEARCHES DIRECTION

“APPLICATIONS OF BIOLOGY, PHYSIOLOGY AND BIO-PHYSIOLOGICAL
TECHNOLOGIES IN MEDICINE” (“APBIOLPHYS AND B-PHYST IN M”)
OF “SEC "SFA CMT" OF "RA(M)S" N. A. ACAD. BURDENKO N.N.”

The developed “The applied scientific researches direction
"Applications of biology, physiology and bio-physiological
technologies in medicine” (“APBIOLPHYS and B-PHYST in M”)
treats to the applied 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 applied scientific researches directions 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 applied 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 applied scientific researches department
"Applications of general biology” (“APGENB”)
*[the applied scientific researches in area
“Applications of biology” –*
usage of the theoretical bases of biology, usage of theory of biology,
usage of theory of methods and equipment for the biological researches,
usage of theory of molecular biology, usage of theory of bio-physics,
usage of theory of cytology, usage of theory of embryology, usage of theory of genetics,
usage of theory of parasitology, usage of theory of virology, usage of theory of micro-biology,
usage of theory of botany, usage of theory of physiology of plants, usage of theory of zoology, usage of theory of ecology,
usage of theory of anthropology, usage of theory of physiology of person and animals,
usage of theory of morphology of person and animals, usage of theory of immunology,
usage of theory of pharmacology, usage of theory of toxicology,
usage of theory of radiation biology, usage of theory of space biology,
usage of theory of bionics, usage of theory of bio-cybernetics, usage of theory of bio-engineering
and usage of the cognitive modeling technology in the applications of biology
(usage of theory of modeling of the biological construct of the organism of the organic individual)].

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

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

the applied scientific researches in area “Applications of bio-physiology and public-health-service” ()* – usage of the theoretical bases of bio-physiology and public-health-service, usage of general questions of theoretical bio-physiology and public-health-service, usage of theory of bio-medical-physiological disciplines: usage of theory of private physiology of analyzers and sensory systems, usage of theory of bio-physiological materials, means and products, usage of theory of bio-physiological technics, usage of theory of clinical physiology, usage of theory of physiological bio-pharmacology and bio-epidemiology, usage of theory of other branches of bio-medicine and public-health-service, usage of theory of social physiology, usage of theory of organization and management of public-health-service, usage of theory of modified model of reduced eye, usage of theory of software for the automation of research tasks of the physiological, psychological and linguistic parameters of the parametrical cognitive models block in medicine, usage of theory of statistical substantiation of the practical use of received results, usage of 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, usage of theory of organization and plan of carrying out of experiment, usage of theory of research of the physiological, psychological and linguistic parameters of the cognitive models of the subject of training and the means of training, usage of theory of preliminary processing of a posteriori results of diagnostics, usage of theory of choice of methods of the statistical analysis of generated data sets, usage of theory of the analysis of the dynamics of resultativity of the objects, processes and phenomena in bio-physiology and public-health-service, usage of theory of the dispersion, regression, discriminant, cluster analysis, multidimensional scaling, factorial analysis and bibliographic lists, usage of 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 usage of the cognitive modeling technology in the applications of bio-physiology and public-health-service].

The applied scientific researches directions 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. “IQR and D in MO: CA” on the 01st-31st of October 2020 y.)