The Laboratory of Human and Animal Physiology

Experimental studies are being conducted at the Human and Animal Physiology Research Laboratory, with the aim of studying the effects of ecological and technogenic factors (vibration, hypoxia) on organisms, regulatory mechanisms of physiological functions under conditions of intellectual exertion and examination stress, as well as the application of non-medicamentous methods that increase the resistance of organisms. Specially designed computer programs are used to study changes in neuronal activity of vestibular nuclei of the medula oblongata under conditions of vibration and delabirintation, as well as their correction through the application of prolin rich hypothalamic neuropeptids. The influence of antioxidants, and in particular red and white trefoils, on bulbar respiratory neurons and biofield of organisms under conditions of hypoxia is also studied. Researchers at the Human and Animal Physiology Research Laboratory also study changes in regulatory mechanisms of cardiac function and hemodynamic and pshychophysiological indicators in students, school children and sick (sore throat, pneumoia) pre-schoolers, under conditions of physical and mental exertion and examinational stress, as well as their correction using essential oils.