

THE RESEARCH INSTITUTE OF PHYSIOLOGY IS EQUIPPED WITH MODERN EQUIPMENT THAT ALLOWS SOLVING A WIDE RANGE OF TASKS:



The NEUROMIOANALYZATOR realizes a full range of registration of evoked potentials (acoustic, medium-latency and long-latency auditory, visual

on a flash of light and reversed chess pattern, short-latency and long-latency somatosensory evoked potentials), as well as a full range of electroneuromyographic studies, including motor and sensory fiber conduction velocity, F-wave and H-reflex, tunnel syndromes, surface and needle EMG, rhythmic stimulation of the blink reflex and EMG screening.



The REAKOR system allows to conduct biofeedback trainings (temperature, electromyographic, heart rate, respiratory, electroencephalographic,

including trainings for children;



ELECTROENCEPHALOGRAPHANALIZER allows spectral analysis of EEG rhythms, including professional functions of coherence, autocorrelation

and cross-correlation analyses and brain mapping.

RESEARCH INSTITUTE OF PHYSIOLOGY

WE INVITE SCIENTIFIC TEAMS AND REPRESENTATIVES OF THE MEDICAL COMMUNITY FOR COOPERATION!

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KURSK STATE MEDICAL UNIVERSITY



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The physiological school of Kursk State Medical University has been formed over many decades since the foundation of the University. The brightest representatives were Professor N.K. Vereshchagin and Associate Professor R.M. Veger, who were pupils of a major Soviet physiologist, Professor M.N. Shaternikov. M.N. Shaternikov and N.E. Vvedensky were pupils and close collaborators of the great Russian physiologist Ivan Mikhailovich Sechenov.

The modern development of physiological science in Kursk is connected with the name of Honored Scientist of the RSFSR, corresponding member of the Russian Academy of Medical Sciences, Professor A.V. Zavyalov. His school conducts research on the study of system mechanisms of physiological functions regulation in norm and pathology, based on the phenomenon of correlation of physiological functions of different biological modality, discovered by A.V. Zavyalov.

The Research Institute of Physiology is combined with the single-profile Department of Normal Physiology named after Prof. A.V. Zavyalov, on the basis of which the laboratories of physiology of motor activity and the laboratory of physiology of sensory systems and psychophysiology are located.

The laboratory of physiology of visceral systems is located in the research center with an experimental-biological clinic.

The main task of the Research Institute of Physiology is to carry out scientific research in accordance with modern directions of science development in cooperation with leading national and foreign academic research centers and teams.

MOTOR PHYSIOLOGY LABORATORY

In the laboratory of physiology of motor activity the researches of system mechanisms of organization and regulation of arbitrary purposeful complex-coordinated movements in the aspect of their sensory support and participation of effector structures in realization of complex motor programs are carried out. The research of the laboratory are also connected with the search for directions of increasing the efficiency of arbitrary motor activity in sports and labor physiology, as well as rehabilitation of individuals with lesions of sensorimotor sphere using stimulation of peripheral neuromuscular structures, CNS and with the use of various types of biofeedback.



LABORATORY OF PHYSIOLOGY OF SENSORY SYSTEMS AND PSYCHOPHYSIOLOGY

The laboratory studies the mechanism of intersensory and sensory-effector relationships at different levels of the CNS from the point of view of the efficiency of purposeful human activity. One of the main directions of the team's work is the study of regulation of purposeful activity on perception and reproduction of information.

VISCERAL PHYSIOLOGY LABORATORY

The study of mechanisms of intrasystem and intersystem functional relationships of muscular, cardiovascular and respiratory systems. Studies are carried out using modern equipment for computerized spirometry, rest and load ECG registration, as well as daily monitoring.

There is a possibility of integral assessment of functional state of muscular, cardiovascular and respiratory systems of healthy young people during different types of sports training. Conducted studies with the help of methods of surface electromyography, electrocardiography and spirometry make it possible to carry out physiological control for effective monitoring and planning of the training process of soccer players.

Study of systemic mechanisms of regulation of the gastroduodenal complex. There is a methodological base for experimental studies of cardiogastric interrelations and system organization of the gastroduodenal complex in conditions of experimental ulcerogenesis.