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**THE KYIV PERIOD OF DEVELOPMENT OF THE D.S. VORONTSOV
SCIENTIFIC SCHOOL IN THE FIELD OF ELECTROPHYSIOLOGY
(1935–1965)**

Summary

In the XX century the scientific schools was very important for the development of electrophysiology and research case. The history of physiology of that period showing that the valuable creative ideas, the most significant position in science were developed within the framework of scientific schools. Formation of scientific school is impossible without the appearance of an outstanding scientist with a new scientific program and its implementation methodology, a man who combines researcher and teacher talents, that was inherent for the Danyl Semenovych Vorontsov (1886–1965).

The formation of a D.S. Vorontsov's scientific school in the electrophysiology field is closely interrelated with Smolensk (1922–1930), Kazan (1930–1935) and Kiev (1935–1965) periods of the scientific work and organizational activity of the scientist's.

The article analyses academician D.S. Vorontsov and his students' main achievements in the field of electrophysiology; reveals the Kiev stage of formation and development of the scientist's schools.

Academician D.S. Vorontsov is created a powerful scientific school which continued the research work of a prominent scientist in the field of electrophysiology, neurophysiology, membranology and electroencephalography. With laboratories of D.S. Vorontsov came out many researchers (I.G. Validov, I.A. Vladimirova, O.F. Dembnovetsky, N.A. Kalashnikov, S.D. Kovtun, P. G. Kostyuk, S.A. Kuznetsov, G.M. Litvinenko, E.F. Leonova, T.M. Mamonets, I.S. Magura, P.M. Makarov, E.S. Stal'nenko, P.M. Serkov, I.P. Semenutin, V.I. Skok, V.M. Storozhuk, S.I. Fudel-Osipova, M.F. Shuba, M.O. Yudenich, N.A. Yurieva and others), who headed the department of physiology and research Institutions in the different cities of the former Soviet Union and continued the based research initiated by scientists.

It is established that a the researchers conducted under D.S. Vorontsov's guidance in the first Kyiv Medical Institute (1935–1945), the Research Institute of animals physiology, Kiev State University T.G. Shevchenko (1945–1956) and the O.O. Bohomolets Institute of Physiology AS USSR (1956–1965), were on various issues: the detection of bioelectric potentials of nerves, muscles and the central nervous system; the development of the issue of the electric current irritant effect essence; the study of the excitation and inhibition processes nature; the clarification of the excitation synaptic transmission mechanism; the study of the physiological characteristics of nerve endings; the investigation of the fatigue nerves and muscles phenomenon.

Key words: *D.S. Vorontsov, history of science, scientific school, electrophysiology, neurophysiology, membranology.*