U.D.C. 591.181(477)(092)

VARYVODA
Kateryna S.,
candidate of historical sciences,
senior lecturer of the chair
of medico-biological disciplines and
valeology SHEE «Pereyaslav-
Khmelnitskiy Gregory Skovoroda State
Pedagogical University»,
varyvoda.katarina@gmail.com
(Pereyaslav-Khmelnytskyi)

INVESTIGATION OF BIOELECTRIC PHENOMENA OF THE BRAIN IN THE SCIENTIFIC HERITAGE OF ACADEMICIAN V. DANYLEVSKY

A famous Ukrainian biologist, physiologist, histologist and academician of AN USSR V. Danylevsky (1852–1939) played a significant role in the formation and development of electrophysiology of the brain.

Academician V. Danylevsky is an author of more than 200 scientific publications, his writings in electrophysiology occupy a prominent place among them. The scientist was one of the founders of the evolutionary trends in physiology and pathology, initiated the study of the physiology of hypnosis in animals, developed the foundations of electroencephalography with M. Sechenov, widely developed electrophysiology.

The aim of the paper is to study V. Danylevsky's scientific heritage in electrophysiology of the brain basing on the analysis of available literature sources.

The article deals with academician V. Danylevsky's scientific organization of work in electrophysiology field. It indicates the scientist's contribution to the development of electrophysiology of the brain at the end of XIX century. The paper considers the little known facts of the famous Ukrainian physiologist's life and work.

It is established that V. Danylevsky experimental studies in the field of electrophysiology were concentrated in two directions: the study of bioelectrical

phenomena in the brain and study of the effect of electric current on various parts of the nervous system.

It is determined that the scientist has priority in the discovery of brain bioelectrical phenomena (1875). Performing electrophysiological researches V. Danylevsky proved that the electric activity of the brain is associated with its functional activity and is an indicator of the state of excitation, was the first to discover the leading role of the central nervous system higher departments in the regulation of vegetative functions of an organism.

The article reveals little known facts of the scientist's foreign trips. V. Danylevsky was repeatedly on business trips in Germany, Austria, France and Switzerland. The scientist worked on probation in the laboratories of famous scientists, exchanged experience in conducting electrophysiological studies.

Key words: *history of science, electrophysiology, V. Danylevsky, electroencephalography, bioelectrical phenomena, biopotentials of the brain*