

## A. M. CHERNUKH (ON HIS SIXTIETH BIRTHDAY)

Professor Aleksei Mikhailovich Chernukh, Academician of the Academy of Medical Sciences of the USSR, eminent pathophysiological and a leading organizer of Soviet medical science, celebrated his 60th birthday on March 23.



A. M. Chernukh has conducted research into some of the cardinal problems of general pathology, such as the study of the mechanisms of disease, of recovery, and treatment. In his work he has logically and consistently followed the principle of analysis of the pathological process as a whole and taking into account processes taking place at different levels of integration of the organism.

A. M. Chernukh's scientific activity has embraced a wide range of problems in pathology. However, his main line of research is the study of neurohumoral regulation under pathological conditions and the search for ways of actively influencing the course of the pathological process.

In the last two decades A. M. Chernukh has developed his work on the study of the physiology and pathology of the microcirculation, permeability of blood vessel walls and biological membranes, and their ultrastructure. On the basis of these investigations he has formulated the concept of the unity of function, metabolism, blood supply, and nervous regulation of an organ. This concept is based on the proposition of the physiological structure of functioning elements of organs and of the muscular system. These investigations, spreading over a period of many years, receive a general description in the monograph "The Microcirculation" (1975).

Largely thanks to the work of A. M. Chernukh, the theme of the microcirculation and vascular permeability under normal and various pathological conditions has been studied extensively in the Soviet Union. Research in this field is at present being conducted not only by experimental scientists but also by many practicing physicians, surgeons, ophthalmologists, neurologists, and so on. A. M. Chernukh is the recognized leader in this field. For some years he has been the elected Vice-President of the European Society for the Study of the Microcirculation.

A. M. Chernukh has paid considerable attention to the training of young scientists. His many pupils have included not only pathological physiologists but also specialists in other disciplines.

A. M. Chernukh is a leading organizer of Soviet medical science. From 1974 he has been Director of the Institute of General Pathology and Pathological Physiology, Academy of Medical Sciences of the USSR, and as Vice-President of the Academy of Medical Sciences of the USSR he has played an active part in the direction of thematic planning in medical science. As President of the All-Union Scientific Medical Society of Pathological Physiologists, A. M. Chernukh has done much for the development not only of Soviet pathological physiology but also of general pathology and the pathological physiology of other socialist countries. His services in this field received general recognition at the First and Second International Congresses of Pathological Physiologists. It is to A. M. Chernukh that modern pathological physiology owes its status as a synthetic science, and his activity is aimed at the development of links between pathological physiology and clinical medicine.

The editorial board of the journal "Bulletin of Experimental Biology and Medicine," of which he has been a member for many years, warmly congratulates A. M. Chernukh on his birthday.

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