

**ONCOLOGY. SELECTED LECTURES FOR STUDENTS
AND PHYSICIANS. EDITED BY V.F. CHEKHUN, ACADEMICIAN
OF NAS OF UKRAINE — KYIV, 2010. — 768 pp. (IN UKRAINIAN)**



The manual represents a collection of lectures written by the leading Ukrainian scientists engaged in the field of cancer research. The book contains the up-to-date information on the problems of both experi-

mental and clinical oncology. The historical aspects pertaining to the formation of oncology as a branch of science and the content of its major concepts and definitions have been highlighted. The data on cancer epidemiology and principles of tumor classifications are presented. The cellular and molecular mechanisms of chemical, viral, radiation and hormonal carcinogenesis are reviewed. The genetic and epigenetic mechanisms of the malignant transformation and the role of exogenous and endogenous factors are discussed. The modern concepts of programmed cell death, angiogenesis and metastasizing are reviewed. Several chapters deal with the problems of cancer immunology and cancer stem cells. The major achievements in the field of clinical application of the results of molecular genetic studies in cancer diagnosis and treatment are summarized. The key mechanisms of drug resistance formation are reviewed. The aspects of individualization of treatment and rehabilitation of cancer patients as well as the problems of cancer prevention are also dealt with. Each lecture contains the test questions and provides the list of the recommended literature. The book is intended for the physicians the students, post-graduates and the lecturers of the medical colleges. The manual is officially recommended as training manual for the students of higher medical educational institutions in Ukraine.