The Genetic Basis of Human Cancer


Field of medicine: Cancer biology, oncology, and genetics.


Audience: Scientists in cancer research, medical and graduate students, oncologists, and geneticists.

Purpose: To describe the role of genes in the development of cancer.

Content: This text has 43 chapters grouped into four parts: basic concepts in cancer genetics, control of solid-growth tumors, familial cancer syndromes, and site-specific neoplasms. The first chapter serves as a primer in human genetics that can be used as a reference for the rest of the book. The book attempts to answer several questions: Which cancers have a clear genetic component? What genes are involved? What is the nature of the mutations in these genes? How do these genes work? What are the implications of knowledge about genes for diagnosis and future treatment?
The second edition of THE GENETICS OF CANCER, newly titled THE GENETIC BASIS OF HUMAN CANCERS, updates and informs on the most recent progress in genetic cancer research and its impact on patient care. With contributions by the foremost authorities in the field, this fascinating new edition reports on how to understand and predict tumor development — information that can enhance decision-making and advance genetic research.