Cancer Cytogenetics. Chromosomal and Molecular Genetic Aberrations of Tumor Cells. 4th Edition

Description: Over the last four decades, cancer cytogenetics has become widely recognized both as a basic research tool for investigations of tumor biology and a clinical methodology providing vital insights into cancer development and progression. The first three editions of this acclaimed book presented a much-needed conceptual synthesis of this rapidly moving field. Now, Cancer Cytogenetics, Fourth Edition, offers a comprehensive, expanded, and up-to-date review of recent dramatic advances in this area, incorporating a vast amount of new data from the latest basic and clinical investigations.

Edited by two leading experts, and now involving an expanded panel of international experts, the book offers an authoritative description of neoplastic processes at the chromosomal level of genomic organization. Now in full color, Cancer Cytogenetics, Fourth Edition;

- Includes a complete coverage of chromosome aberrations in cancer based on an assessment of the 60,000 neoplasms cytogenetically investigated to date,
- Offers greater emphasis throughout on the clinical importance and application of information about cytogenetic and molecular aberrations,
- Covers how molecular genetic data (PCR-based and sequencing information) are collated with the cytogenetic data where pertinent,
- Discusses how molecular cytogenetic data (based on studies using FISH, CGH, SNP, etc) are fused with karyotyping data to enable an as comprehensive understanding of cancer cytogenetics as is currently possible.

Cancer researchers, clinical oncologists, geneticists, and especially anyone interested in the translational aspects of bench-to-bedside research in cancer genetics will find this new edition indispensable as a reference and clinical tool.

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