Cancer Genomics

Description: Cancer Genomics addresses how recent technological advances in genomics are shaping how we diagnose and treat cancer. Built on the historical context of cancer genetics over the past 30 years, the book provides a snapshot of the current issues and state-of-the-art technologies used in cancer genomics. Subsequent chapters highlight how these approaches have informed our understanding of hereditary cancer syndromes and the diagnosis, treatment and outcome in a variety of adult and pediatric solid tumors and hematologic malignancies. The dramatic increase in cancer genomics research and ever-increasing availability of genomic testing are not without significant ethical issues, which are addressed in the context of the return of research results and the legal considerations underlying the commercialization of genomic discoveries. Finally, the book concludes with "Future Directions", examining the next great challenges to face the field of cancer genomics, namely the contribution of non-coding RNAs to disease pathogenesis and the interaction of the human genome with the environment.

- Tools such as sidebars, key concept summaries, a glossary, and acronym and abbreviation definitions make this book highly accessible to researchers from several fields associated with cancer genomics.
- Contributions from thought leaders provide valuable historical perspective to relate the advances in the field to current technologies and literature.

Contents:

Introduction
1. Historical Overview

Methodological Approaches and Background
2. Expression Arrays (SNPs, etc.)
3. Tissue micro-arrays (breast, ovarian)
4. Next generation sequencing (DNAseq)
5. RNAseq (breast cancer, sarcomas)
6. Epigenetic Analyses
7. Pharmcogenomics
8. Biomarker discovery through genomics
9. Preclinical models for genomics (cell culture, transgenic animals, xenografts)
10. Bioinformatics and computational methods for data analysis
11. Genomic Resource Projects

The Cancer Genome Atlas (TCGA)
International Cancer Genome Consortium (ICGC)

Ethics of Genomics Research
12. Ethics of Genomics Research

The Genomics, Epigenomics and Transcriptomics of Cancer
13. Somatic mutations, Transcription and Epigenetics Overview

Adult Solid Tumors
14. Lung Cancer
15. Breast Cancer
16. Prostate Cancer
17. Colon Cancer
18. Thyroid Cancer

Age Non-specific Tumors and Hematopoietic Malignancies
19. ALL
20. AML
21. NHL
22. Multiple Myeloma
23. Brain Tumors

Pediatric Cancers
24. Neuroblastoma
25. Soft tissue sarcomas
26. Osteosarcoma
27. Wilms Tumors

Germline Mutations and Hereditary Cancer Syndromes
28. Germline Mutations and Hereditary Cancer Syndromes

Future Directions
29. The role of microRNAs and ultraconserved non-coding RNAs in cancer
30. Environmental impact on cancer genomics

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