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Nota di contenuto	CONTENTS; Contributors; Preface; Section I INTRODUCTION; 1 AT THE PRECARIOUS CUSP OF ONCOGENOMICS; Section II MOLECULAR PROFILING IN CANCER: DNA, RNA, AND PROTEIN; 2 GENOME-WIDE SEARCHES FOR MUTATIONS IN HUMAN CANCER; 3 MOLECULAR CYTOGENETICS: INCREASING RESOLUTION USING ARRAY-BASED CGH; 4 SNPs AND FUNCTIONAL POLYMORPHISMS IN CANCER; 5 EXPRESSION PROFILING OF BREAST CANCER: FROM MOLECULAR PORTRAITS TO CLINICAL UTILITY; 6 CLASSIFYING HEREDITARY CANCERS AND PHENOCOPIES OF HEREDITARY CANCERS USING EXPRESSION ARRAYS 7 LINKING DRUGS AND GENES: PHARMACOGENOMICS, PHARMACOPROTEOMICS, BIOINFORMATICS, AND THE NCI-608 TISSUE

MICROANALYSIS: PROFILING CANCER STAGES; 9 PROTEOMICS IN BLADDER CANCER; Section III MODEL SYSTEMS; 10 CHEMICAL AND GENETIC METHODS TO VALIDATE TARGETS IN NONMAMMALIAN ORGANISMS; 11 MOUSE MODELS OF CANCER; 12 GENOME-WIDE MODIFIER SCREENS: HOW THE GENETICS OF CANCER PENETRANCE MAY SHAPE THE FUTURE OF PREVENTION AND TREATMENT; Section IV MOLECULARLY TARGETED DRUGS; 13 PROTEIN KINASES AS TARGETS IN CANCER THERAPY: VALIDATED AND EMERGING APPROACHES; 14 RAS SUPERFAMILY-DIRECTED COMPOUNDS
15 CLINOMICS: POSTGENOMIC CANCER CARESection V CONCLUSION;
16 ONCOGENOMICS AND THE NCI DIRECTOR'S VISION FOR 2015; INDEX

Sommario/riassunto

This book aims to assemble the only available rigorous, yet broadly accessible introduction to this new and exciting field. Oncogenomics: Molecular Approaches to Cancer is approachable by basic scientists, practitioners, and other health professionals required to familiarize themselves with the tremendous impact of genomics and proteomics on cancer research. Clearly written chapters offer reviews of state of the art topics such as molecular classification, early detection, SNPs in cancer, data mining, tissue microarrays, protein and antibody arrays, and drug targets.
