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Descrizione fisica	1 online resource (XXI, 1136 p. 442 illus., 347 illus. in color. eReference.)
Collana	Springer reference Molecular genetic pathology
Disciplina	616.07
Soggetti	Pathology Oncology Hematology Medicine - Research Biology - Research Biomedical Research
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Formato	Materiale a stampa
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Nota di contenuto	Principles of Clinical Molecular Biology -- Principles of Clinical Cytogenetics -- Conceptual Evolution in Cancer Biology -- Genetic Inheritance and Population Genetics -- Clonality Analysis and Tumor of Unknown Primary: Applications in Modern Oncology and Surgical Pathology -- Modern Immunohistochemistry in Targeted Therapy -- Systems Pathology -- Diagnostic Methodology and Technology -- Clinical Flow Cytometry -- Clinical Genomics in Oncology -- Clinical Proteomics -- Nanotechnology in Molecular Diagnostics -- Gene Therapy: Vector Technology and Clinical Applications -- Instrumentation for Molecular Testing -- Tissue Microarrays and Biomarker Validation -- Laser Capture Microdissection -- Human Tissue Biorepository -- Pathology Informatics -- Prenatal Cytogenetic and Cytogenomic Diagnosis -- Molecular Medical Genetics -- Biochemical Genetics and Inborn Errors of Metabolism -- Molecular Genetics of Congenital Heart Disease -- Familial Cancer Syndromes -- Genetic Counseling -- Molecular Virology -- Molecular Bacteriology and Mycobacteriology -- Molecular Parasitology and Mycology --

Molecular Microbiology in Transplantation -- Molecular Microbiology Epidemiology -- Principle of Immunoglobulin and T Cell Receptor Gene Rearrangement -- Molecular Diagnostics of Lymphoblastic Leukemia and Lymphoma -- Molecular Diagnostics of Myeloid Neoplasms -- Molecular Diagnostics of Lymphoid Malignancies -- Molecular Diagnostics of Myeloproliferative Neoplasms and Myelodysplastic Syndromes -- Molecular Diagnostics of Lymphoproliferative Disorders -- Molecular Testing for Coagulation Abnormalities -- Molecular Hemoglobinopathies -- The HLA System and Transfusion Medicine: Molecular Approach -- Clinical Pharmacogenomics -- Molecular Forensic Pathology -- Specimen Identification and Bone Marrow Engraftment Analysis -- Circulating Tumor Cells: The Liquid Biopsy for Molecular Pathology -- Ethical and Legal Issues in Molecular Testing -- Regulatory Issues in Molecular Testing -- Molecular Pathology Reporting -- Quality Assurance and Laboratory Inspection.

Sommario/riassunto

Molecular Genetic Pathology, Second Edition presents up-to-date material containing fundamental information relevant to the clinical practice of molecular genetic pathology. Fully updated in each area and expanded to include identification of new infectious agents (H1N1), new diagnostic biomarkers and biomarkers for targeted cancer therapy. This edition is also expanded to include the many new technologies that have become available in the past few years such as microarray (AmpliChip) and high throughput deep sequencing, which will certainly change the clinical practice of molecular genetic pathology. Part I examines the clinical aspects of molecular biology and technology, genomics, pharmacogenomics and proteomics, while Part II covers the clinically relevant information of medical genetics, hematology, transfusion medicine, oncology, and forensic pathology. Supplemented with many useful figures and presented in a helpful bullet-point format, Molecular Genetic Pathology, Second Edition provides a unique reference for practicing pathologists, oncologists, internists, and medical geneticists. Furthermore, a book with concise overview of the field and highlights of clinical applications will certainly help those trainees, including pathology residents, genetics residents, molecular pathology fellows, internists, hematology/oncology fellows, and medical technologists in preparing for their board examination/certification.
