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Titolo	Molecular pathology : the molecular basis of human disease // edited by William B. Coleman, Gregory J. Tsongalis
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ISBN	0-12-802787-8 0-12-802761-4
Edizione	[Second edition.]
Descrizione fisica	1 online resource : illustrations (some color)
Disciplina	571.94
Soggetti	Pathology, Molecular Molecular biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 - Molecular Mechanisms of Cell Death -- 2 - Acute and Chronic Inflammation Induces Disease Pathogenesis -- 3 - Infection and Host Response -- 4 – Neoplasia -- 5 - Basic Concepts in Human Molecular Genetics -- 6 - The Human Genome: Understanding Human Disease in the Post-Genomic Era -- 7 - The Human Transcriptome: Implications for Understanding, Diagnosing, and Treating Human Disease -- 8 - The Human Epigenome—Implications for the Understanding of Human Disease -- 9 - Clinical Proteomics and Molecular Pathology -- 10 - Integrative Systems Biology -- 11 - Pathology: The Clinical Description of Human Disease -- 12 - Understanding Molecular Pathogenesis: The Biological Basis of Human Disease and Implications for Improved Treatment of Human Disease -- 13 - Integration of Molecular and Cellular Pathogenesis: A Bioinformatics Approach -- 14 - Molecular Basis of Cardiovascular Disease -- 15 - Molecular Basis of Hemostatic and Thrombotic Diseases -- 16 - Molecular Basis of Lymphoid and Myeloid Diseases -- 17 - Molecular Basis of Diseases of Immunity -- 18 - Molecular Basis of Pulmonary Disease -- 19 - Molecular Basis of Diseases of the Gastrointestinal Tract -- 20 - Molecular Basis of Liver Disease -- 21 - Molecular Basis of Diseases of the Exocrine Pancreas -- 22 - Molecular Basis of Diseases of the Endocrine System -- 23 -

Molecular Basis of Gynecologic Diseases -- 24 - Molecular Basis of Kidney Disease -- 25 - Molecular Pathogenesis of Prostate Cancer -- 26 - Molecular Biology of Breast Cancer -- 27 - Molecular Basis of Skin Disease -- 28 - Molecular Basis of Bone Diseases -- 29 - Molecular Basis of Diseases of the Nervous System -- 30 - Molecular Diagnosis of Human Disease -- 31 - Molecular Assessment of Human Diseases in the Clinical Laboratory -- 32 - Pharmacogenomics and Personalized Medicine in the Treatment of Human Diseases

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Sommario/riassunto

As the molecular basis of human disease becomes better characterized, and the implications for understanding the molecular basis of disease becomes realized through improved diagnostics and treatment, Molecular Pathology, Second Edition stands out as the most comprehensive textbook where molecular mechanisms represent the focus. It is uniquely concerned with the molecular basis of major human diseases and disease processes, presented in the context of traditional pathology, with implications for translational molecular medicine. The Second Edition of Molecular Pathology has been thoroughly updated to reflect seven years of exponential changes in the fields of genetics, molecular, and cell biology which molecular pathology translates in the practice of molecular medicine. The textbook is intended to serve as a multi-use textbook that would be appropriate as a classroom teaching tool for biomedical graduate students, medical students, allied health students, and others (such as advanced undergraduates). Further, this textbook will be valuable for pathology residents and other postdoctoral fellows that desire to advance their understanding of molecular mechanisms of disease beyond what they learned in medical/graduate school. In addition, this textbook is useful as a reference book for practicing basic scientists and physician scientists that perform disease-related basic science and translational research, who require a ready information resource on the molecular basis of various human diseases and disease states. Explores the principles and practice of molecular pathology: molecular pathogenesis, molecular mechanisms of disease, and how the molecular pathogenesis of disease parallels the evolution of the disease. Explains the practice of "molecular medicine" and the translational aspects of molecular pathology Teaches from the perspective of "integrative systems biology".

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