Principles of molecular pathology

Humana Press - Principles of Molecular Pathology

Description: -
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Genetic disorders.
Pathology, Molecular.Principles of molecular pathology
-Principles of molecular pathology
Notes: Includes bibliographical references and index.
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Tags: #Molecular #Anatomic #Pathology: #Principles, #Techniques, #and #Application #to #Immunohistologic #Diagnosis

Principles of Molecular Pathology. Anthony A. Killeen. Totowa, NJ: Humana Press, 2003, 344 pp., $99.50, hardcover. ISBN 1

Schematic representation of the polymerase chain reaction PCR.

Principles of Molecular Pathology

However, when dealing with DNA of suboptimal quality—that is, when DNA is isolated from fixed tissue or cytology preparation—the reliable amplification can be achieved on only relatively short DNA sequences 400 to 500 bp or shorter. The first half of the book covers principles and analytical concepts in molecular diagnostics such as genomes and variants, nucleic acids isolation and amplification methods, and measurement techniques, circulating tumor cells, and plasma DNA; the second half presents clinical applications of molecular diagnostics in genetic disease, infectious disease, hematopoietic malignancies, solid tumors, prenatal diagnosis, pharmacogenetics, and identity testing.

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Not all somatic mutations have a clear biological effect. In Principles of Molecular Pathology, Anthony Killeen, md, phd, offers a comprehensive yet concise introduction to molecular pathology that encompasses both applied and theoretical knowledge.

Molecular diagnostics: basic terms and principles

Tissue specimens that were processed with bone decalcifying solution cannot be used for molecular analysis because of extensive DNA fragmentation. Chapter 2 describes the basic forms of Mendelian and non-Mendelian inheritance, multifactorial disease, Bayesian risk calculation, and Hardy-Weinberg equilibrium.

MOLECULAR PATHOLOGY THE MOLECULAR BASIS OF HUMAN DISEASE

Writing in a very readable style, the author reviews the basic concepts of human molecular biology, explains the principles of the most commonly used analytical methods, and discusses the molecular principles that underlie both inherited diseases and acquired genetic abnormalities that lead to cancer. Each monthly section will be short enough to be read in a single sitting.

MOLECULAR PATHOLOGY THE MOLECULAR BASIS OF HUMAN DISEASE

I particularly liked how each chapter highlighted all of the salient points of the subject material and then went on to illustrate many of the exceptions. Usually, 10% neutral-buffered formalin NBF is most commonly used for tissue fixation.

Related Books

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- Indonesian communism - a history.
- Fushoku no kōzō
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