

# Principles of molecular pathology

Humana Press - Principles of Molecular Pathology



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Genetic disorders.

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-Principles of molecular pathology

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Genetic polymorphism is an alteration in DNA sequence found in the general population at a frequency greater than 1%. Those topics are pH and hydrogen bonds, which although deceptively simple will lie at the very heart of much of our topic.

**Principles of Molecular Pathology / Edition 1 by Anthony Killeen**

If a given DNA sequence variation, such as a point mutation, alters the restriction site for a specific enzyme, either creating or destroying it, this changes the size of the PCR product, which can be detected by gel electrophoresis. 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.

**Molecular Anatomic Pathology: Principles, Techniques, and Application to Immunohistologic Diagnosis**

Somatic mutations may provide a selective advantage for cell growth and may initiate cancer development, but they are not transmitted to offspring. Random hexamers are a mixture of all possible combinations of six nucleotide sequences that can attach randomly to mRNA and initiate reverse transcription of the entire RNA pool.

**Principles of Molecular Pathology**

Chapter 10 gives a nice overview of identity testing and its use in the laboratory, and lastly, chapter 11 provides a review of molecular techniques and interpretation of results from human immunodeficiency virus and hepatitis C virus testing. The book provides readers with all of the relevant background in the first chapters so that specialists and nonspecialists alike can understand the later chapters.

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