



Genetics and Genomics for Advanced Practice Nursing: Principles and Application

Dr. Omanand Koul PhD, Dr. Jean E. Boucher PhD ANP-BC RN

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This unique text and reference, the first such book written for graduate-level nursing courses, provides an in-depth foundation for using genetics and genomic concepts in advanced practice and clinical research. Encompassing state-of-the-art knowledge of the most salient issues in genetics and genomics, it teaches students how to apply understanding of the genome structure and the ethical, legal, and social issues associated with genomics to all aspects of clinical practice assessment, genetic counseling, patient care, and research.

The text covers the principles of human and molecular genetics, including variations, patterns of inheritance, and multifactorial inheritance. It examines gene action and expression, cytogenetics, the Human Genome Project, genetics terminology, and basic principles of relevant laboratory methods. The evolving principles of epigenetics, nutrigenomics, and pharmacogenomics in patient care and research are also explored along with their ethical, legal, and social ramifications. Additionally, the text discusses the implications of personalized medicine and direct-to consumer testing in regard to patient care and practice. Inherited and acquired health conditions are used to illustrate the impact of genetics and genomics on nursing practice and on opportunities for research. The text includes numerous case studies and exercises to help understand chromosomal distribution abnormalities along with virtual lab exercises for karyotyping and DNA analysis.

Key Features:

- Provides exercises to help understand chromosomal distribution abnormalities
- Includes virtual lab exercises for karyotyping and DNA analysis
- Presents cases to draw pedigrees, and pedigree analysis
- Offers perspectives and case studies regarding ethical, legal, and socioeconomic issues specifically geared to APNs
- Discusses implications of personalized medicine and direct-to-consumer testing

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