

Human genetics has entered the medical mainstream, and many thousands of people have already had their genomes sequenced. Genetics and genomics investigate how we vary, touching on rare as well as common traits and illnesses. The information in our DNA reveals our ancestry and identifies present and future health risks. Knowing our genetic selves empowers us to better control our environments to promote health. The eleventh edition of the classic *Human Genetics: Concepts and Applications* brings students fully into the new world of genomics.

NEW TO THIS ELEVENTH EDITION:

In her uniquely accessible style, Ricki Lewis continues to relate current engaging stories and compelling new research findings to illuminate the principles of human genetics and genomics. The many exciting new topics include:

- Progress for progeria (Chapter 3)
- Family exome analysis solves a medical mystery (Chapter 4)
- Exon skipping causes and treats disease (Chapter 12)
- Silencing trisomy 21 (Chapter 13)
- Genomic epidemiology tracks an outbreak (Chapter 17)
- A gallery of genomes (Chapter 22)

 **LEARNSMART**™ LearnSmart is the only truly adaptive learning system that intelligently identifies course-content students have not yet mastered and maps out personalized study plans for their success.

When LearnSmart has identified a specific subject area where the student is struggling, he or she is given a “time out” and directed to the textbooks section and learning objective for remediation.

Dynamically generated reports document student progress and areas for additional reinforcement, offering at-a-glance views of their strengths and weaknesses.

 **SMARTBOOK**™ Powered by an intelligent diagnostic and adaptive engine, **SmartBook** facilitates the reading process by identifying what content a student knows and doesn't know through adaptive assessments.

As the student reads, the reading material constantly adapts to ensure the student is focused on the content he or she needs the most to close any knowledge gaps.