



Genomics: Fundamentals and Applications

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This unique new text delivers a solid foundation for understanding the role of genomics in human health and in advances that promise to help improve the quality of human life. Unlike other works that focus mainly on toxicogenomic techniques, *Genomics* presents a thorough overview of the field in four major sections: 1) fundamentals of genes and genome structure, function, expression, variations, and genomic technology platforms; 2) applications of genomics in drug discovery and drug development, safety evaluation, genomic database maintenance, mining, and analysis, food safety monitoring, and translational toxicogenomics; 3) how regulatory agencies such as the FDA and EPA use genomic data in their safety evaluation; and 4) a summary of the current state and the future prospect of the science of genomics.

With an international perspective and practical case studies, *Genomics* is the first resource to present essential discussion of theory and application for:

- eukaryotic genomes
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