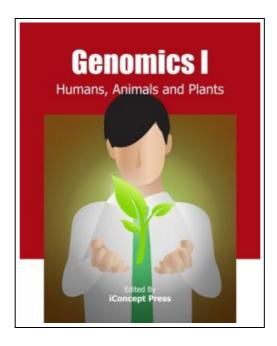
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(Jesse Yundt)

GENOMICS I: HUMANS, ANIMALS AND PLANTS



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Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 203 mm. Language: English . Brand New Book ****** Print on Demand ******.Genomics is the study of the genomes of organisms. The field includes intensive efforts to determine the entire DNA sequence of organisms and fine-scale genetic mapping efforts. It is a discipline in genetics that applies recombinant DNA, DNA sequencing methods, and bioinformatics to sequence, assemble, and analyze the function and structure of genomes. Genomics I - Humans, Animals and Plants is the first volume of our Genomics series. There are totally three volumes in this series. Chapter 1 describes the development of a unique nascent DNA enrichment peak detection algorithm which utilizes Savitzky-Golay convolution kernel smoothing at different base-pair resolutions. Chapter 2 summarizes disease-causing mutations in the human genome which affect RNA splicing. Chapter 3 discusses Reactive oxygen species (ROS), which are reactive ions and free radicals generated by oxidative reactions. ROS can damage cells by reacting with cellular macromolecules including DNA. Chapter 4 proposes a methodological approach to analyze telomeric chromatin structure independently of Interstitial Telomeric Sequences (ITSs). The method is based on the use of the frequently cutting enzyme Tru9I. In Chapter 5, the authors detail recent advances in understanding mechanisms of gene regulation in Drosophila. A combination of molecular genetics and mathematical modeling approaches reveals the emerging evidence for an underlying architecture of transcription factor binding sites in cis-regulatory modules. Chapter 6 provides a systematic evaluation and general summary of the gene expression spectra of drug metabolizing enzymes and transporters (DMETs). Chapter 7 addresses the problem of determination of absolute copy numbers in the tumor genomic profile measured by a single nucleotide polymorphism array. Chapter 8 describes bioinformatics of computer-based reconstruction of the mitochondrial DNA se

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