Bioinformatics Computing

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The complete, practical guide to bioinformatics for molecular biologists and life scientists Gives an overview of bioinformatics from a computer science perspective Makes the computer science aspects of bioinformatics more understandable for life scientists. Presents a ready reference for current and future online and standalone tools In Bioinformatics Computing , Harvard Medical School and MIT faculty member Bryan Bergeron presents a comprehensive and practical guide to bioinformatics for life scientists at every level of training and practice. After an up-to-the-minute overview of the entire field, he illuminates every key bioinformatics technology, offering practical insights into the full range of bioinformatics applications-both new and emerging. Coverage includes: Technologies that enable researchers to collaborate more effectively Fundamental concepts, state-of-the-art tools, and "on the horizon" advances Bioinformatics information infrastructure, including GENBANK and other Web-based resources Very large biological databases: object-oriented database methods, data mining/warehousing, knowledge management, and more 3D visualization: exploring the inner workings of complex biological structures Advanced pattern matching techniques, including microarray research and gene prediction Event-driven, time-driven, and hybrid simulation techniques Bioinformatics Computing combines practical insight for assessing bioinformatics technologies,

practical guidance for using them effectively, and intelligent context for understanding their rapidly evolving roles.

作者介绍:

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