Record Nr. UNINA9910449840103321 Information processing and living systems [[electronic resource] /] / **Titolo** editors, Vladimir B. Bajic, Tan Tin Wee Pubbl/distr/stampa London, : Imperial College Press Singapore; ; Hackensack, NJ, : Distributed by World Scientific Pub., c2005 **ISBN** 1-281-86690-3 9786611866907 1-86094-688-7 Descrizione fisica 1 online resource (799 p.) Collana Series on advances in bioinformatics and computational biology;; v. 2 Altri autori (Persone) BajicV. B (Vladimir B.) TanTin Wee Disciplina 570/.285 Soggetti **Bioinformatics** Information modeling Biologically-inspired computing Biology - Data processing Human information processing Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Preface: Contents: CHAPTER 1 A MULTI-DISCIPLINARY SURVEY OF Nota di contenuto BIOCOMPUTING: 1. MOLECULAR AND CELLULAR LEVELS*; CHAPTER 2 A MULTI-DISCIPLINARY SURVEY OF BIOCOMPUTING: 2. SYSTEMS AND EVOLUTIONARY LEVELS, AND TECHNOLOGICAL APPLICATIONS*; CHAPTER 3 MODELS FOR COMPLEX EUKARYOTIC REGULATORY DNA SEQUENCES; CHAPTER 4 AN ALGORITHM FOR AB-INITIO DNA MOTIF DETECTION; CHAPTER 5 DETECTING MOLECULAR EVIDENCE OF POSITIVE DARWINIAN SELECTION: CHAPTER 6 MOLECULAR PHYLOGENETIC ANALYSIS: UNDERSTANDING GENOME EVOLUTION;

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CHAPTER 16 BIOLOGICAL DATABASES AND WEB SERVICES: METRICS FOR QUALITY

Sommario/riassunto

Information processing and information flow occur in the course of anorganism's development and throughout its lifespan. Organisms do notexist in isolation, but interact with each other constantly within acomplex ecosystem. The relationships between organisms, such as thosebetween prey or predator, host and parasite, and between matingpartners, are complex and multidimensional.