

The Invisible History Of Human Race How Dna And Shape Our Identities Futures Christine Kenneally

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this two volume set of Incs 12463 and Incs 12464 constitutes in conjunction with the volume Inai
12465 the refereed proceedings of the 16th international conference on intelligent computing icic
2020 held in bari italy in october 2020 the 162 full papers of the three proceedings volumes were
carefully reviewed and selected from 457 submissions the icic theme unifies the picture of

contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications the theme for this conference is advanced intelligent computing methodologies and applications papers related to this theme are especially solicited addressing theories methodologies and applications in science and technology

this detailed volume presents a comprehensive exploration of the advances in transcriptomics with a focus on methods and pipelines for transcriptome data analysis in addition to well established rna sequencing rna seq data analysis protocols the chapters also examine specialized pipelines such as multi omics data integration and analysis gene interaction network construction single cell trajectory inference detection of structural variants application of machine learning and more as part of the highly successful methods in molecular biology series chapters include the kind of detailed implementation advice that leads to best results in the lab authoritative and practical transcriptome data analysis serves as an ideal resource for educators and researchers looking to understand new developments in the field learn usage of the protocols for transcriptome data analysis and implement the tools or pipelines to address relevant problems of their interest chapter 4 is available open access under a creative commons attribution 4.0 international license via link.springer.com

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abstract macromolecules such as proteins and dna have complex spatial structures which are often important for their biological functions the idea of molecular shape and shape complementarity play crucial roles in protein folding conformational stability molecular solubility crystal packing and docking various models based on a union of balls representation have been suggested for representing molecular shape including the van der waals model the solvent accessible surface and the molecular surface in this thesis we present several extensions to the theory of alpha shapes applicable to the analysis of molecular shape first we define a pocket of a molecule which is intuitively a depression canyon or cavity of a molecule the definition is based on mathematical notions of relative distance we give efficient algorithms for computing pockets and examples of their application secondly we look at the issue of maintaining shape dynamically as a molecule changes over time topological analysis of the changing structure can yield information about the function of the molecule we describe algorithms and their implementations for dynamically maintaining the delaunay complex the basis for shape analysis these algorithms have been implemented and experimental results are reported finally we discuss techniques for modelling uniform growth of the atoms of a molecule the solvent accessible and molecular

surface models of a molecule are based on such growth and the algorithms presented here efficiently compute these models for all probe sizes

this accurate and up to date introductory text on human form and function presents a large complex body of scientific knowledge in an easily understood conversational writing style focusing on concepts rather than just descriptions to help students unify information the text uses a big picture theme of body function and explains the body s homeostatic regulation many practical features and hundreds of full color illustrations enhance text content and critical thinking learning opportunities are integrated throughout new illustrations revised career choices boxes in each unit and current topics including anthrax and the human genome project have been added to this edition

neil campbell and jane reece s biology remains unsurpassed as the most successful majors biology textbook in the world this text has invited more than 4 million students into the study of this dynamic and essential discipline the authors have restructured each chapter around a conceptual framework of five or six big ideas an overview draws students in and sets the stage for the rest of the chapter each numbered concept head announces the beginning of a new concept and concept check questions at the end of each chapter encourage students to assess their mastery of a given concept new inquiry figures focus students on the experimental process and new research method figures illustrate important techniques in biology each chapter ends with a scientific inquiry question that asks students to apply scientific investigation skills to the content of the chapter

this book is an overview of current progress in drug design it focuses on energetics of drug interactions with solvents and biomolecules applications of traditional drug design methods and related evolutionary algorithms

this volume provides a detailed overview of the mechanisms by which steroid hormones regulate gene activity in target cells it should be of interest to molecular biologists endocrinologists pharmacologists and clinicians interested in gene regulation hormones and steroid antagonists

introduces basic concepts and principles important to an understanding of the human body textbook has two goals building a foundation for later courses dealing with anatomy or physiology and providing a framework for the organization interpretation and application of related information obtained outside the classroom

discover biology helps students become biologically literate students to progress from science to scientific literacy

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