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Computational Molecular Biology

An Algorithmic Approach

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Computational Molecular Biology

Neil C. Jones, Pavel A. Pevzner



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students in both biology and computer science it strikes a unique balance between rigorous mathematics and practical techniques emphasizing the ideas underlying algorithms rather than offering a collection of apparently unrelated problems. The book introduces biological and algorithmic ideas together linking issues in computer science to biology and thus capturing the interest of students in both subjects. It demonstrates that relatively few design techniques can be used to solve a large number of practical problems in biology and presents this material intuitively. *An Introduction to Bioinformatics Algorithms* is one of the first books on bioinformatics that can be used by students at an undergraduate level. It includes a dual table of contents organized by algorithmic idea and biological idea, discussions of biologically relevant problems including a detailed problem formulation and one or more solutions for each, and brief biographical sketches of leading figures in the field. These interesting vignettes offer students a glimpse of the inspirations and motivations for real work in bioinformatics, making the concepts presented in the text more concrete and the techniques more approachable. PowerPoint presentations, practical bioinformatics problems, sample code, diagrams, demonstrations, and other materials can be found at the Author's website.

Combinatorics of Genome Rearrangements Guillaume Fertin, 2009. A comprehensive survey of a rapidly expanding field of combinatorial optimization, mathematically oriented but offering biological explanations when required. From one cell to another, from one individual to another, and from one species to another, the content of DNA molecules is often similar. The organization of these molecules, however, differs dramatically, and the mutations that affect this organization are known as genome rearrangements. Combinatorial methods are used to reconstruct putative rearrangement scenarios in order to explain the evolutionary history of a set of species, often formalizing the evolutionary events that can explain the multiple combinations of observed genomes as combinatorial optimization problems. This book offers the first comprehensive survey of this rapidly expanding application of combinatorial optimization. It can be used as a reference for experienced researchers or as an introductory text for a broader audience. Genome rearrangement problems have proved so interesting from a combinatorial point of view that the field now belongs as much to mathematics as to biology. This book takes a mathematically oriented approach but provides biological background when necessary. It presents a series of models, beginning with the simplest, which is progressively extended by dropping restrictions, each constructing a genome rearrangement problem. The book also discusses an important generalization of the basic problem, known as the median problem, surveys attempts to reconstruct the relationships between genomes with phylogenetic trees, and offers a collection of summaries and appendixes with useful additional information.

Undergraduate Mathematics for the Life Sciences Glenn Ledder, Jenna P. Carpenter, Timothy D. Comar, 2013. There is a gap between the extensive mathematics background that is beneficial to biologists and the minimal mathematics background biology students acquire in their courses. The result is an undergraduate education in biology with very little quantitative content. New mathematics courses must be devised with the needs of biology students in mind. In this volume, authors from a variety of institutions address some of the problems

involved in reforming mathematics curricula for biology students The problems are sorted into three themes Models Processes and Directions It is difficult for mathematicians to generate curriculum ideas for the training of biologists so a number of the curriculum models that have been introduced at various institutions comprise the Models section Processes deals with taking that great course and making sure it is institutionalized in both the biology department as a requirement and in the mathematics department as a course that will live on even if the creator of the course is no longer on the faculty Directions looks to the future with each paper laying out a case for pedagogical developments that the authors would like to see

BioMath in the Schools Margaret B. Cozzens, Fred S. Roberts, 2011 Even though contemporary biology and mathematics are inextricably linked high school biology and mathematics courses have traditionally been taught in isolation But this is beginning to change This volume presents papers related to the integration of biology and mathematics in high school classes The first part of the book provides the rationale for integrating mathematics and biology in high school courses as well as opportunities for doing so The second part explores the development and integration of curricular materials and includes responses from teachers Papers in the third part of the book explore the interconnections between biology and mathematics in light of new technologies in biology The last paper in the book discusses what works and what doesn't and presents positive responses from students to the integration of mathematics and biology in their classes

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