Book Reviews

Introduction to Mathematical Methods in Bioinformatics

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Three main problems from molecular biology discussed in Part I of the book are: (i) sequence matching and alignment, (ii) protein folding and (iii) phylogenetic reconstruction. For each of these three problems, readers are exposed to the basic materials along with relevant examples. The discussion in Part I is generally kept at an elementary level, and consequently students and other non-experts interested in the topics should find it reasonably easy to go through the book and understand the material.

Part II of the book concentrates on more mathematical material consisting of basic probability theory and statistical techniques such as parameter estimation, tests of hypothesis and statistical significance.

There are plenty of interesting examples worked out in the book. The problems listed in the exercises at the end of each chapter are carefully chosen and would benefit students to a great extent. The book would be useful as an introductory textbook for students in a Bioinformatics course.

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