Molecular Evolution and Phylogenetics

Masatoshi Nei, Sudhir Kumar
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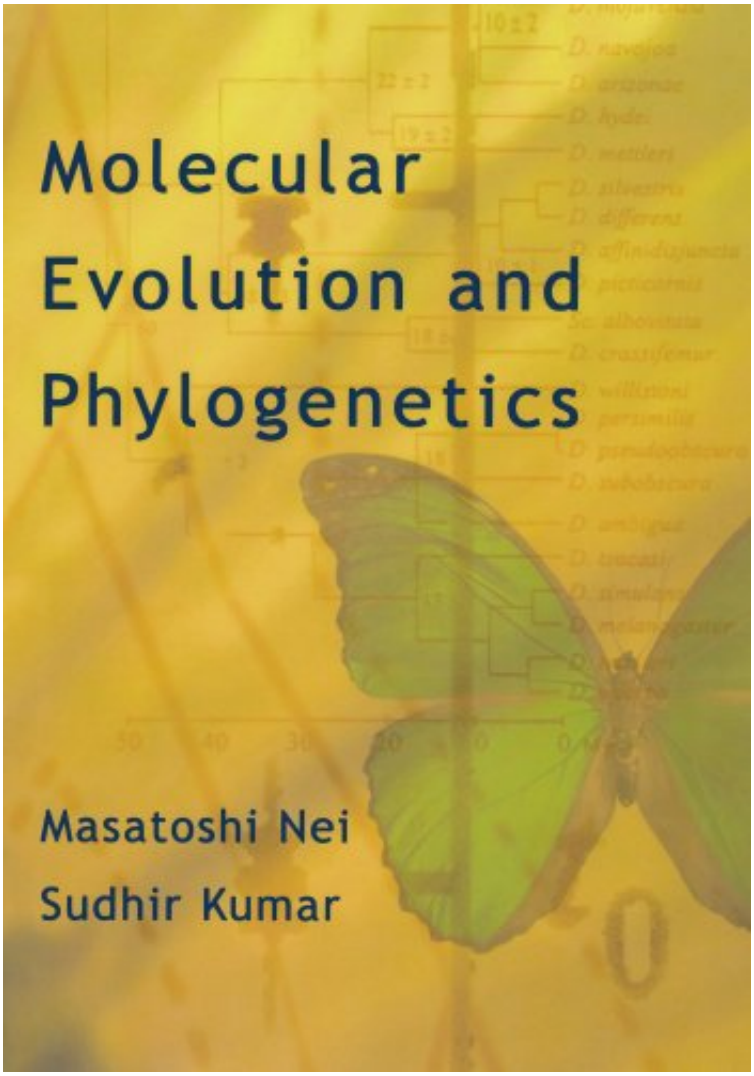

#1462059 in Books Masatoshi Nei Sudhir Kumar 2000-08-15Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 7.00 x .90 x 9.80l, 1.32 #File Name: 0195135857333 pagesMolecular evolution and phylogenetics | File size: 18.Mb

Masatoshi Nei, Sudhir Kumar : Molecular Evolution and Phylogenetics before purchasing it in order to gage whether or not it would be worth my time, and all praised Molecular Evolution and Phylogenetics:

1 of 1 people found the following review helpful. Good course textBy DrJI took Sudhir Kumar's Comparative Genomics course at Arizona State during my last semester of my undergraduate program and this was the primary textbook that we used. It provided a suitable amount of detail to be able to discuss the main ideas during class without having any comparative genomics background. It isn't the most interesting textbook I've ever read, nor are the figures of particular artistic flare, but nonetheless the book is useful if you actually want to learn comparative genomics.I

would recommend this book to anybody in the life sciences.0 of 0 people found the following review helpful. Five StarsBy Zhen LiuI have to say it is awesome.0 of 0 people found the following review helpful. GoodBy AprilI bought a used one with $3.99. I've read this book, and since it is so cheap, it is not bad to have one.I couldn't even tell it is used. Guess someone just return it after buying.

During the last ten years, remarkable progress has occurred in the study of molecular evolution. Among the most important factors that are responsible for this progress are the development of new statistical methods and advances in computational technology. In particular, phylogenetic analysis of DNA or protein sequences has become a powerful tool for studying molecular evolution. Along with this developing technology, the application of the new statistical and computational methods has become more complicated and there is no comprehensive volume that treats these methods in depth. Molecular Evolution and Phylogenetics fills this gap and present various statistical methods that are easily accessible to general biologists as well as biochemists, bioinformatists and graduate students. The text covers measurement of sequence divergence, construction of phylogenetic trees, statistical tests for detection of positive Darwinian selection, inference of ancestral amino acid sequences, construction of linearized trees, and analysis of allele frequency data. Emphasis is given to practical methods of data analysis, and methods can be learned by working through numerical examples using the computer program MEGA2 that is provided.

It is worth its price * Plant Systematics and Evolution *About the AuthorMasatoshi Nei is at Pennsylvania State University. Sudhir Kumar is at Arizona State University.