Phylogenomics: A Primer

Rob Desalle, Jeffrey Rosenfeld
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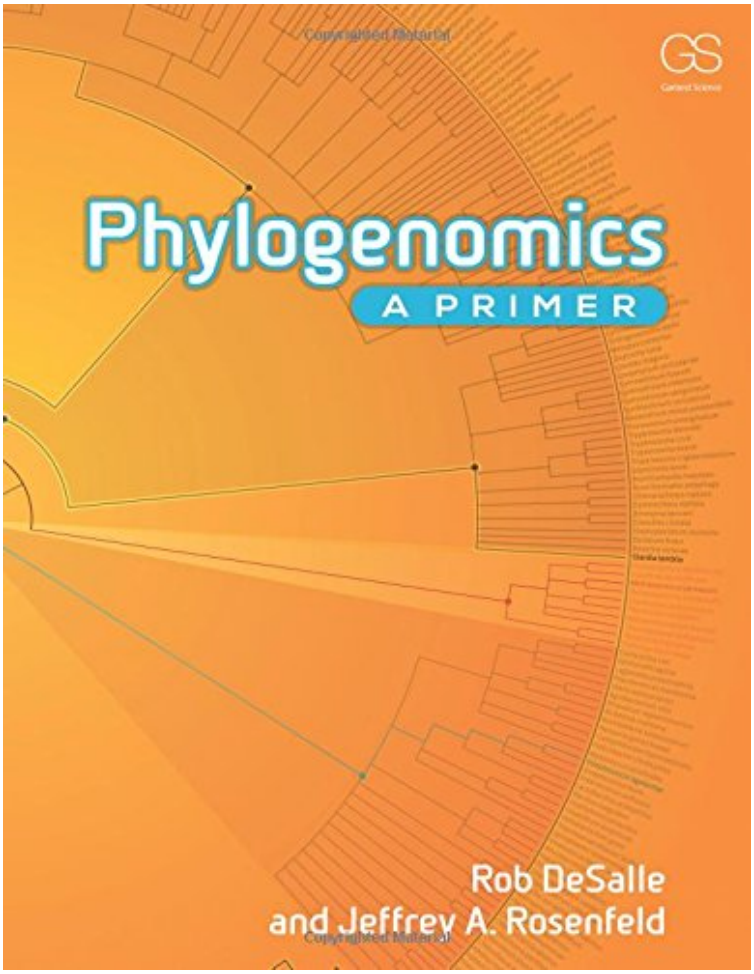

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Rob Desalle, Jeffrey Rosenfeld : Phylogenomics: A Primer before purchasing it in order to gage whether or not it would be worth my time, and all praised Phylogenomics: A Primer:

6 of 7 people found the following review helpful. Uneeda primer!By CustomerIf you are, like me, a newbie in the world of phylogenomics (which may encompass newbie-ness in bioinformatics, genomics, and phylogenetics as well), you will find this primer quite startlingly useful. It delicately treads the line between too-basic and too-advanced, while consistently assuming a respectful tone...by which I mean that it assumes you are a thoughtful, intelligent organism whose store of knowledge may just fail to include phylogenomics, as opposed to being a "basic" guidebook (i.e, combatively written for contemptible morons whose education inexplicably failed to include X). DeSalle and Rosenfeld like you, and they want to help. You will like them too!

Phylogenomics: A Primer is for advanced undergraduate and graduate biology students studying molecular biology,

comparative biology, evolution, genomics, and biodiversity. Itexplores the origins of organic life on the planet, examines the use of scientific databases to understand the function of proteins within organisms, and provides insight into the interpretation of linear sequence information in the context of organismal change. This book explains the essential concepts underlying the storage and manipulation of genomics level data, construction of phylogenetic trees, population genetics, natural selection, thetree of life, DNA barcoding, and metagenomics. The inclusion of problem-solving exercises in each chapter provides students with a solid grasp of the important molecular and evolutionary questions facing modern biologists as well as the tools needed to answer them. Online exercises are also available to assist students in working with the programs and databases used to analyze phylogenomic data.