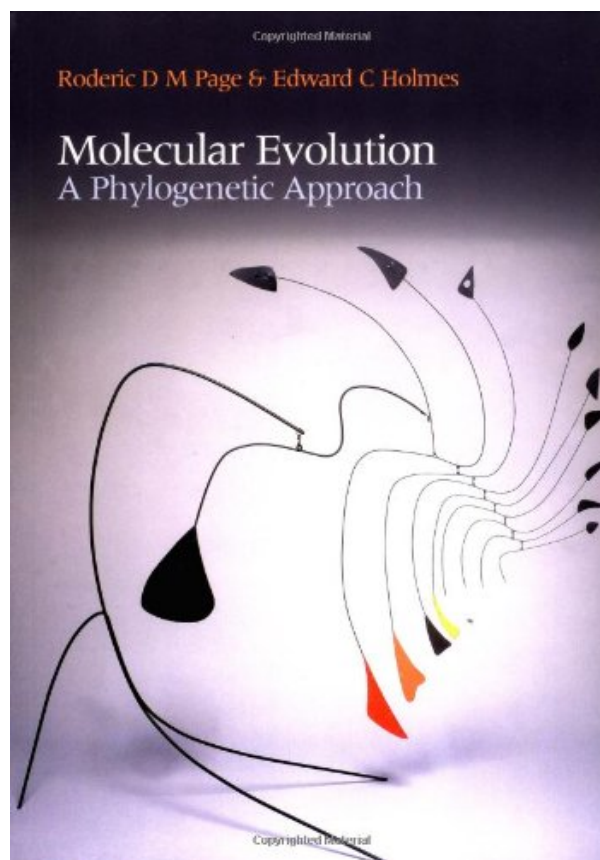


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# Molecular Evolution

## A Phylogenetic Approach



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The study of evolution at the molecular level has given evolutionary biology a new impetus. Phylogenetic 'trees' of gene sequences are a powerful tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular data, and the significance evolutionary theory has for molecular studies. The book is accessible, yet sufficiently detailed and explicit that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals.

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By Howard Schneider

Although molecular phylogenetic analysis can be extremely complex, this reference provides an introduction to the subject that is straightforward to read. The reference begins with consideration of trees, which are structures used to model actual evolutionary relationships between genes or entire lifeforms. It then provides an introduction to molecular and population genetics. Coding as well as noncoding DNA (tandem repeats, transposable elements, retroviruses, spacer DNA) is considered. The reference then considers how genetic change can be measured, followed by how we can deduce molecular phylogenies. The validity of the molecular clock is then considered, along with a discussion of the neutralist-selectionist debate. The reference finally considers how different phylogenies can be combined to determine actual phylogeny, reconciled trees, and rates of diversification.

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Every page in this book contains highly illustrative figures that accompanies well written text. Of course, not all sections are not immediately clear to understand, and I would need to read other books as well.

If you are new to molecular evolution, start with this book along with any other books that may suit your particular need.

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By Casey H. Richart

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