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Abstract As better phylogenetic hypotheses become available for many groups of organisms, studies in community ecology can be informed by knowledge of the evolutionary relationships among coexisting species. We note three primary approaches to integrating phylogenetic information into

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studies of community organization: 1. examining the phylogenetic structure of community assemblages, 2. exploring the phylogenetic basis of community niche structure, and 3. adding a community context to ...

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Empirically, phylogenies and community ecology have been put together predominantly in studies of community assembly, organization, and species co-occurrence, and we identify in this literature three major approaches (Figure 1). Other questions of community ecology, relating to relative abundance, range size dis-

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### **Phylogenies and Community Ecology - JSTOR**

Phylogenies and community ecology  
Project Description There exists a long history in ecology of examining communities in terms of their taxonomic structure (e.g., species/genus ratios), with the expectation that this will shed



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light on both historical community assembly and contemporary ecological structure.

### **Phylogenies and community ecology - [nceas.ucsb.edu](http://nceas.ucsb.edu)**

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Abstract Key Words community assembly and organization, phylogenetic conservatism, biogeography, species diversity, niche differentiation s Abstract As better phylogenetic hypotheses become...

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Community phylogenetics is rapidly becoming an important component of community ecology, macroecology, and biodiversity conservation (Webb et al. 2002, Vamosi et al. 2009). For calculations and comparisons of community phylogenetic diversity and trait phylogenetic signal, an important question arises: can we derive

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phylogenies from already-available synthesis trees, or should we generate our own purpose-built phylogenies?

**For common community phylogenetic analyses, go ahead and ...**

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### **Phylogenies and community ecology | Donoghue Lab**

Community ecology and macroecology more recently incorporated phylogenies into analyses, using evolutionary relationships to understand observed ecological and macroevolutionary patterns and processes, such as

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community assembly or biodiversity gradients.

**A guide to phylogenetic metrics for conservation ...**

The use of phylogenies in ecology is increasingly common and has broadened our understanding of biological diversity. Ecological sub-

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disciplines, particularly conservation, community ecology and macroecology, all recognize the value of evolutionary relationships but the resulting development of phylogenetic approaches has led to a proliferation of

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Phylogenetics 1 INTRODUCTION

Incorporating phylogenetic information into ecology is enlightening because it allows ecological questions to be addressed in an evolutionary context, leading to a deeper understanding of the processes that give rise to patterns of biological diversity (Webb et al., 2002).

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**Picante: R tools for integrating phylogenies and ecology ...**

Community ecology is based on knowledge of evolutionary relationships among coexisting species. Phylogenies embrace aspects of both time (evolutionary relationships) and space (geographic distribution). Typically phylogeny trees include tips, which

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represent groups of descendent species, and nodes, which represent the common ancestors of those descendants.

### **Molecular ecology - Wikipedia**

Linking Phylogenies and Community Ecology. Phylogenetic Community Structure; Multiple Processes Contribute to Phylogenetic Community Structure; ...

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On shorter evolutionary timescales, we briefly treat the literature in community genetics and eco-evolutionary dynamics, which shows how community interactions can exert evolutionary pressures that ...

**Evolutionary Ecology of  
Communities - Evolutionary Biology**

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## Phylogenies And Community Ecology

Phylogenies in Ecology is the first book to critically review the application of phylogenetic methods in ecology, and it serves as a primer to working ecologists and students of ecology wishing to understand these methods. This book demonstrates how phylogenetic information is transforming ecology by

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offering fresh ways to estimate the similarities and differences among species, and by providing deeper, evolutionary-based insights on species distributions, coexistence, and niche partitioning.

**Amazon.com: Phylogenies in Ecology: A Guide to Concepts ...**

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Community phylogenetics measures 1.

Phylogenetic diversity (Faith 1992)

Phylogenetic diversity (PD) calculates the total branch length spanned by the species within a community. To calculate

PD for our communities: `monkey.pd <- pd(comm.ds, tree, include.root = TRUE)`

`monkey.pd` PD SR community1 14 4

`community2` 20 4 `community3` 19 4

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### **11.1 Phylogenetic community ecology in R - AnthroTree ...**

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demonstrates how phylogenetic information is transforming ecology by offering fresh ways to estimate the similarities and differences among species, and by providing deeper, evolutionary-based insights on species distributions, coexistence, and niche partitioning.

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**Phylogenies in Ecology | Princeton University Press**

Patterns of phylogenetic relatedness within communities have been widely used to infer the importance of different ecological and evolutionary processes during community assembly, but little is

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**(PDF) Picante: R tools for  
integrating phylogenies and ecology**

Phylogenies in Ecology is the first book to critically review the application of phylogenetic methods in ecology, and it serves as a primer to working ecologists and students of ecology wishing to understand these methods.

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