

Phylogenies And Community Ecology

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Phylogenies in Ecology: A Guide to Concepts and Methods
Ecology, Volume 87, Issue sp7. Special Issue. Free Access. INTEGRATING PHYLOGENIES INTO COMMUNITY ECOLOGY ...

11.1 Phylogenetic community ecology in R - AnthroTree...
Generally, ecologists and evolutionary biologists use two common approaches to build phylogenies for community phylogenetic analyses. The first approach is for a researcher to generate his/her own phylogenies for a set of target species based on gene sequence data. We refer to such phylogenies as purpose-built phylogenies.

Picante: R tools for integrating phylogenies and ecology ...
A history lesson, textbook, and lab manual all in one, this terrific book explores the concepts and methods at the intersection of ecology and phylogenetics, from community ecology to conservation. Perfect for experienced researchers and students new to the field.

Phylogenies and Community Ecology | Annual Review of ...
Modern phylogenies now offer far more precision in the analysis of community taxonomic structure, and an increasing number of studies are aimed at incorporating phylogenetic information into community ecology.

Phylogenetic community ecology: Integrating community ...
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 offering fresh ways to estimate the ...

PHYLOGENIES AND COMMUNITY ECOLOGY
Key Words community assembly and organization, phylogenetic conservatism, biogeography, species diversity, niche differentiation s Abstract As better phylogenetic hypotheses become available for...

A guide to phylogenetic metrics for conservation ...
Phylogenetic community ecology: Integrating community ecology and evolutionary biology Article (PDF Available) in Journal of Plant Ecology 7(2):97-100 · March 2014 with 225 Reads

Phylogenies and community ecology | NCEAS
PHYLOGENIES AND COMMUNITY ECOLOGY 479 TABLE 1 The expected distribution of sample taxa on the phylogeny of a pool at a larger spatial scale, given various combinations of phylogenetic trait distribution and ecological process Ecological traits phylogenetically Conserved Convergent Dominant ecological force:

Virtual Issue: Phylogenetics in community ecology research ...
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.

Phylogenetic community ecology: integrating community ...
Phylogenies and Community Ecology . NCEAS meeting, 14-17 March 2002. Schedule . Wednesday, 13 March . 6.00 PM Group dinner for those free. Place TBA, message left at front desk of Fransiscan Inn.

Phylogenies in Ecology: A Guide to Concepts and Methods on ...
An important area in which phylogenetic community ecology can advance classical community ecology is the investigation of how interactions among species within communities feed back to influence the evolutionary processes that impact species ecological roles and ultimately the diversity of traits and species in the regional pool.

For common community phylogenetic analyses, go ahead and ...
The papers included in this issue also cover other aspects of phylogenetic community ecology such as the relationship between phylogenetic diversity and stability (Pu et al. 2014), the relationship between functional traits with phylogenetic signal and environmental conditions (Mi et al. 2014), the relationship between phylogenetic diversity of ...

Phylogenies and Community Ecology - NCEAS
Picante performs numerous permutation procedures not available in other software packages including generating random communities by drawing taxa from a species pool, rearrangements of the community matrix preserving sample species richnesses and species occurrence frequencies and randomizations of phylogenies.

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The merging of community ecology and phylogenetic biology ...
Two fields of community ecology research have particularly benefited from the increased availability of phylogenetic information. These are community assembly and biodiversity-ecosystem functioning research. The former explores the processes and mechanisms by which species organize and interact with each other to establish local communities.

Phylogenies And Community Ecology
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 studies of community organization: 1. examining the phylogenetic structure of community assemblages, 2. exploring the ...

INTEGRATING PHYLOGENIES INTO COMMUNITY ECOLOGY
The use of phylogenies in community ecology, macroecology, and conservation biology reflects the shared recognition that accumulated evolutionary differences may explain or predict biological and ecological processes. Phylogenetic approaches have revolutionized these disciplines.

www.jstor.org
Next we need to load in our community data. picante uses the same data structure as the community ecology package vegan (a very useful package for all kinds of community ecology calculations). The data is structured as follows, where numbers are the abundance of each of 7 species in 3 communities:

Phylogenies in Ecology | Princeton University Press
Phylogenetic community ecology is one of the biggest bandwagons in ecology right now (and before you get upset with me for saying that, click the link to find out what I mean by "bandwagon").

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