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## Life Sciences : Biodiversity

Pellens, Roseli, Grandcolas, Philippe (Eds.)

# Biodiversity Conservation and Phylogenetic Systematics

Preserving our evolutionary heritage in an extinction crisis

- This book provides a fast and reliable way of understanding the role of phylogenetic diversity in present biodiversity conservation frame work
- It can be very useful for graduate, master and PhD students as it discusses basic questions such as the way we value phylogenetic diversity, gives guidelines for the choice of measures and provides detailed information on new methodological solutions
- The examples given here show both that it can be applied to many cases and be very useful to policy makers.

This book is about phylogenetic diversity as an approach to reduce biodiversity losses in this period of mass extinction. Chapters in the first section deal with questions such as the way we value phylogenetic diversity among other criteria for biodiversity conservation; the choice of measures; the loss of phylogenetic diversity with extinction; the importance of organisms that are deeply branched in the tree of life, and the role of relict species. The second section is composed by contributions exploring methodological aspects, such as how to deal with abundance, sampling effort, or conflicting trees in analysis of phylogenetic diversity. The last section is devoted to applications, showing how phylogenetic diversity can be integrated in systematic conservation planning, in EDGE and HEDGE evaluations. This wide coverage makes the book a reference for academics, policy makers and stakeholders dealing with biodiversity conservation.

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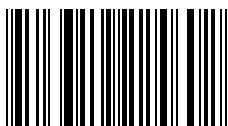
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