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This idea is reflected in the
recently published volume
Cultural Phylogenetics: Concepts
and Applications in Archaeology,
which assembles seven articles
dealing both theoretically and
practically with the prospects and
challenges of phylogenetic
methods in archaeology.

Cultural Phylogenetics: Concepts
and Applications in ...

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This book explores the potential and challenges of implementing evolutionary phylogenetic methods in archaeological research, by discussing key concepts and presenting concrete applications of these approaches. The volume is divided into two parts: The first covers the theoretical and conceptual implications of using evolution-based models in the sociocultural domain, illustrates the sorts of questions that these methods can help answer, and invites the reader to reflect on the opportunities ...

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Cultural Phylogenetics: Concepts
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The use of methods developed in
evolutionary biology to model the
processes of cultural change and
innovation that amount to cultural
evolution is becoming an
increasingly widespread practice
in the sociocultural sciences. The
purpose of this book is

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Concepts and Applications in ...
Phylogenetic approaches applied to scientific fields other than biology have received much interest of late, and a wide range of papers has been published in which phylogenetic methods are applied to a diverse range of fields, including linguistics,

Book Review: Cultural
Phylogenetics: Concepts and ...
Cultural Phylogenetics: Concepts and Applications in Archaeology (Interdisciplinary Evolution Research #4) ... by discussing key concepts and presenting concrete applications of these approaches. The volume is divided into two parts: The first covers the theoretical and conceptual implications of using

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Cultural Phylogenetics |

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Phylogenetics is the study of evolutionary relationships among biological entities - often species, individuals or genes (which may be referred to as taxa). The major elements of phylogenetics are summarised in Figure 1 below.

Figure 1 Elements of phylogenetics. Typically phylogeneticists study one of the following types of question: □
What are the evolutionary relationships or histories ...

What is phylogenetics? | EMBL-EBI
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and Applications in Archaeology
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2. Ecological Concepts and Principles 7 3. Application of Ecological Concepts and

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Principles 19 Glossary 32 List of
Figures f gu Examples of
Biodiversity Components and
Attributes 2 f gu 2. The
Contribution of Biodiversity to
Human Well-Being 3 f gu 3.
Overview of Concepts, Principles
and Applications 5

Ecological Concepts, Principles
and Applications to ...
Cultural artefacts, like genes and
languages, reflect their history.
The methodology of inference of
that history, however, has been a
contentious question. Recent
applications of biological
phylogenetic methodology to infer
historical patterns of material
culture are often explicitly
justified on the grounds that
essentially similar processes

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aanbrengen, en om advertenties
weer te geven.

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This paper is a review of

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And Applications in
archaeology. It explains why and
how the application of Darwinian
evolutionary theory to
archaeology is possible and,
moreover, useful. It expounds
what this scientific field gains
from considering

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parts: The first covers the theoretical and conceptual implications of using evolution-based models in the sociocultural domain, illustrates the sorts of questions that these methods can help answer, and invites the reader to reflect on the opportunities and limitations of these perspectives. The second part comprises case studies that address relevant empirical issues, such as inferring patterns and rates of cultural transmission, detecting selective pressures in cultural evolution, and explaining the nature of cultural variation. This book will appeal to archaeologists interested in applying evolutionary thinking and inferential methods to their field, and to anyone interested in

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And evolution studies.

Archaeology

Interdisciplinary Evolution Research

This book will appeal to archaeologists interested in applying evolutionary thinking and inferential methods to their field, and to anyone interested in cultural evolution studies. This book explores the potential and challenges of implementing evolutionary phylogenetic methods in archaeological research, by discussing key concepts and presenting concrete applications of these approaches. Cultural Phylogenetics, assembles seven articles dealing both theoretically and practically with the prospects and challenges of phylogenetic methods in archaeology. I consider the book to be an

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Interesting contribution, worth being read by everyone who is interested in quantitative methods applied to historical sciences

This book explores the potential and challenges of implementing evolutionary phylogenetic methods in archaeological research, by discussing key concepts and presenting concrete applications of these approaches. The volume is divided into two parts: The first covers the theoretical and conceptual implications of using evolution-based models in the sociocultural domain, illustrates the sorts of questions that these methods can help answer, and invites the reader to reflect on the

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opportunities and limitations of these perspectives. The second part comprises case studies that address relevant empirical issues, such as inferring patterns and rates of cultural transmission, detecting selective pressures in cultural evolution, and explaining the nature of cultural variation. This book will appeal to archaeologists interested in applying evolutionary thinking and inferential methods to their field, and to anyone interested in cultural evolution studies.

Evolutionary Research in Archaeology seeks to provide a comprehensive overview of contemporary evolutionary research in archaeology. The book will provide a single source

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for introduction and overview of basic and advanced evolutionary concepts and research programs in archaeology. Content will be organized around four areas of critical research including microevolutionary and macroevolutionary process, human ecology studies (evolutionary ecology, demography, and niche construction), and evolutionary cognitive archaeology. Authors of individual chapters will address theoretical foundations, history of research, contemporary contributions and debates, and implications for the future for their respective topics. As appropriate, authors present or discuss short empirical case studies to illustrate key

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The evolutionary history of species is traditionally represented using a rooted phylogenetic tree. However, when reticulate events such as hybridization, horizontal gene transfer or recombination are believed to be involved, phylogenetic networks that can accommodate non-treelike evolution have an important role to play. This book provides the first interdisciplinary overview of phylogenetic networks. Beginning with a concise introduction to both phylogenetic trees and phylogenetic networks, the fundamental concepts and results are then presented for both rooted and unrooted phylogenetic

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networks. Current approaches and algorithms available for computing phylogenetic networks from different types of datasets are then discussed, accompanied by examples of their application to real biological datasets. The book also summarises the algorithms used for drawing phylogenetic networks, along with the existing software for their computation and evaluation. All datasets, examples and other additional information and links are available from the book's companion website at www.phylogenetic-networks.org.

This workshop questioned the reliability of pottery as crisis indicator within the archaeological data set. More

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And particularly, following the perspective of archaeological and anthropological research that assesses pottery technology as a social product, there is an interest in addressing the social and cultural aspects of technological change...

Widens traditional concepts of forensic science to include humanitarian, social, and cultural aspects Using the preservation of the dignity of the deceased as its foundation, Forensic Science and Humanitarian Action: Interacting with the Dead and the Living is a unique examination of the applications of humanitarian forensic science. Spanning two comprehensive volumes, the text is sufficiently detailed for forensic

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practitioners, yet accessible enough for non-specialists, and discusses both the latest technologies and real-world interactions. Arranged into five sections, this book addresses the 'management of the dead' across five major areas in humanitarian forensic science. Volume One presents the first three of these areas: History, Theory, Practice, and Legal Foundation; Basic Forensic Information to Trace Missing Persons; and Stable Isotopes Forensics. Topics covered include: Protection of The Missing and the Dead Under International Law Social, Cultural and Religious Factors in Humanitarian Forensic Science Posthumous Dignity and the Importance in Returning Remains

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of the Deceased The New
Disappeared – Migration and
Archaeology Stable Isotope
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Research Analysis in Forensic Anthropology
Volume Two covers two further
areas of interest: DNA Analysis
and the Forensic Identification
Process. It concludes with a
comprehensive set of case
studies focused on identifying the
deceased, and finding missing
persons from around the globe,
including: Forensic Human
Identification from an Australian
Perspective Skeletal Remains and
Identification Processing at the
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Texas/Mexico Border
Humanitarian Work in Cyprus by
The Committee on Missing
Persons (CMP) Volcán De Fuego
Eruption – Natural Disaster

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Response from Guatemala

Drawing upon a wide range of contributions from respected academics working in the field, Forensic Science and Humanitarian Action is a unique reference for forensic practitioners, communities of humanitarian workers, human rights defenders, and government and non-governmental officials.

Much of what we are comes from our ancestors. Through cultural and biological inheritance mechanisms, our genetic composition, instructions for constructing artifacts, the structure and content of languages, and rules for behavior are passed from parents to children and from individual to

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Individual. Mapping Our Ancestors demonstrates how various genealogical or "phylogenetic" methods can be used both to answer questions about human history and to build evolutionary explanations for the shape of history. Anthropologists are increasingly turning to quantitative phylogenetic methods. These methods depend on the transmission of information regardless of mode and as such are applicable to many anthropological questions. In this way, phylogenetic approaches have the potential for building bridges among the various subdisciplines of anthropology; an exciting prospect indeed. The structure of Mapping Our Ancestors reflects

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The editors' goal of developing a common understanding of the methods and conditions under which ancestral relations can be derived in a range of data classes of interest to anthropologists. Specifically, this volume explores the degree to which patterns of ancestry can be determined from artifactual, genetic, linguistic, and behavioral data and how processes such as selection, transmission, and geography impact the results of phylogenetic analyses. Mapping Our Ancestors provides a solid demonstration of the potential of phylogenetic methods for studying the evolutionary history of human populations using a variety of data sources and thus helps explain how cultural material,

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language, and biology came to be as they are. Carl P. Lipo is assistant professor of anthropology at California State University in Long Beach. Michael O'Brien is professor of anthropology and director of the Museum of Anthropology at the University of Missouri. Mark Collard is assistant professor of anthropology at the University of British Columbia, Stephen J. Shennan is a professor and director of the Institute of Archaeology at the University College London. Niles Eldredge is a curator in the department of invertebrates at the American Museum of Natural History, and adjunct professor at the City University of New York.

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Travellers in Time re-evaluates the extent to which the earliest Mediterranean civilizations were affected by population movement. It critiques both traditional culture-history-grounded notions of movement in the region as straightforwardly transformative, and the processual, systemic models that have more recently replaced this view, arguing that newer scholarship too often pays limited attention to the specific encounters, experiences and agents involved in travel. By assessing a broad range of recent archaeological and ancient textual data from the Aegean and central and east Mediterranean via five comprehensive studies, this book makes a compelling

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case for rethinking issues such as identity, agency, materiality and experience through an understanding of movement as transformative. This innovative and timely study will be of interest to advanced undergraduates, postgraduate students and scholars in the fields of Aegean/Mediterranean prehistory and Classical archaeology, as well as anyone interested in ancient Aegean and Mediterranean culture.

Paleobiology struggled for decades to influence our understanding of evolution and the history of life because it was stymied by a focus on microevolution and an incredibly patchy fossil record. But in the

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1970s, the field took a radical turn, as paleobiologists began to investigate processes that could only be recognized in the fossil record across larger scales of time and space. That turn led to a new wave of macroevolutionary investigations, novel insights into the evolution of species, and a growing prominence for the field among the biological sciences. In *The Quality of the Archaeological Record*, Charles Perreault shows that archaeology not only faces a parallel problem, but may also find a model in the rise of paleobiology for a shift in the science and theory of the field. To get there, he proposes a more macroscale approach to making sense of the archaeological record, an approach that reveals

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patterns and processes not visible within the span of a human lifetime, but rather across an observation window thousands of years long and thousands of kilometers wide. Just as with the fossil record, the archaeological record has the scope necessary to detect macroscale cultural phenomena because it can provide samples that are large enough to cancel out the noise generated by micro-scale events. By recalibrating their research to the quality of the archaeological record and developing a true macroarchaeology program, Perreault argues, archaeologists can finally unleash the full contributive value of their discipline.

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