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# **Biogeochemical Approaches to Paleodietary Analysis**

**Edited by  
Stanley H. Ambrose  
and  
M. Anne Katzenberg**

# Biogeochemical Approaches In Paleodietary Analysis

**Jane E. Buikstra, Charlotte Roberts**



## **Biogeochemical Approaches In Paleodietary Analysis:**

Biogeochemical Approaches to Paleodietary Analysis Stanley H. Ambrose, M. Anne Katzenberg, 2006-04-18 The study of human diet brings together researchers from diverse backgrounds ranging from modern human nutrition and biochemistry to the geochemistry of fossilized bones and teeth The contributions to this volume grow out of the Fourth Advanced Seminar on Paleodiet and provide a forum for scholars with common interests to discuss the latest advances and interpretations and chart future directions for paleodietary research *Paleonutrition* Mark Q. Sutton, Kristin D. Sobolik, Jill K.

Gardner, 2010-04-15 Paleonutrition is the analysis of prehistoric human diets and the interpretation of dietary intake in relation to health and nutrition As a field of study it addresses prehistoric diets in order to determine the biological and cultural implications for individuals as well as for entire populations placing archaeological interpretations into an anthropological context Throughout history and long before written records human culture has been constantly in flux The study of paleonutrition provides valuable insights into shifts and changes in human history whatever their causes This is the most comprehensive and up to date book on the topic Intended for students and professionals it describes the nature of paleonutrition studies reviews the history of paleonutrition research discusses methodological issues in the reconstruction of prehistoric diets presents theoretical frameworks frequently used in paleonutrition research and showcases examples in which paleonutritional analyses have been successfully conducted on prehistoric individuals groups and populations It offers an integrative approach to understanding state of the art anthropological dietary health and nutritional assessments The most recent and innovative methods used to reconstruct prehistoric diets are discussed along with the major ways in which paleonutrition data are recovered analyzed and interpreted Paleonutrition includes five contemporary case studies that provide useful models of how to conduct paleonutrition research Topics range from ancient diets in medieval Nubia to children's health in the prehistoric American Southwest to honey use by an ethnographic group of East African foragers As well as providing interesting examples of applying paleonutrition techniques these case studies illustrate the mutually beneficial linkages between ethnography and archaeology **A Companion to Biological Anthropology** Clark Spencer

Larsen, 2023-03-10 *A Companion to Biological Anthropology* The discipline of biological anthropology the study of the variation and evolution of human beings and their evolutionary relationships with past and living hominin and primate relatives has undergone enormous growth in recent years Advances in DNA research behavioral anthropology nutrition science and other fields are transforming our understanding of what makes us human *A Companion to Biological Anthropology* provides a timely and comprehensive account of the foundational concepts historical development current trends and future directions of the discipline Authoritative yet accessible this field defining reference work brings together 37 chapters by established and younger scholars on the biological and evolutionary components of the study of human development The authors discuss all facets of contemporary biological anthropology including systematics and taxonomy

population and molecular genetics human biology and functional adaptation early primate evolution paleoanthropology paleopathology bioarchaeology forensic anthropology and paleogenetics Updated and expanded throughout this second edition explores new topics revisits key issues and examines recent innovations and discoveries in biological anthropology such as race and human variation epidemiology and catastrophic disease outbreaks global inequalities migration and health resource access and population growth recent primate behavior research the fossil record of primates and humans and much more A Companion to Biological Anthropology Second Edition is an indispensable guide for researchers and advanced students in biological anthropology geosciences ancient and modern disease bone biology biogeochemistry behavioral ecology forensic anthropology systematics and taxonomy nutritional anthropology and related disciplines

**Handbook of Paleoanthropology** Winfried Henke, Ian Tattersall, 2007-05-10 This 3 volume handbook brings together contributions by the world's leading specialists that reflect the broad spectrum of modern palaeoanthropology thus presenting an indispensable resource for professionals and students alike Vol 1 reviews principles methods and approaches recounting recent advances and state of the art knowledge in phylogenetic analysis palaeoecology and evolutionary theory and philosophy Vol 2 examines primate origins evolution behaviour and adaptive variety emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments Vol 3 deals with fossil and molecular evidence for the evolution of Homo sapiens and its fossil relatives

Health and Disease in Byzantine Crete (7th-12th centuries AD) Chryssi Bourbou, 2016-04-15 Daily life and living conditions in the Byzantine world are relatively underexplored subjects often neglected in comparison with more visible aspects of Byzantine culture such as works of art The book is among the few publications on Greek Byzantine populations and helps pioneer a new approach to the subject opening a window on health status and dietary patterns through the lens of bioarchaeological research Drawing on a diversity of disciplines biology chemistry archaeology and history the author focuses on the complex interaction between physiology culture and the environment in Byzantine populations from Crete in the 7th to 12th centuries The systematic analysis and interpretation of the mortality profiles the observed pathological conditions and of the chemical data all set in the cultural context of the era brings new evidence to bear on the reconstruction of living conditions in Byzantine Crete Individual chapters look at the demographic profiles and mortality patterns of adult and non adult populations and study dietary habits and breastfeeding and weaning patterns In addition this book provides an indispensable body of primary data for future research in these fields and so furthers an interdisciplinary approach in tracing the health of the past populations

**The Oxford Handbook of the Archaeology of Diet** Julia Lee-Thorp, M. Anne Katzenberg, 2024-06-24 Humans are unique among animals for the wide diversity of foods and food preparation techniques that are intertwined with regional cultural distinctions around the world The Oxford Handbook of the Archaeology of Diet explores evidence for human diet from our earliest ancestors through the dispersal of our species across the globe As populations expanded people encountered new plants and animals and learned

how to exploit them for food and other resources Today globalization aside the results manifest in a wide array of traditional cuisines based on locally available indigenous and domesticated plants and animals How did this complexity emerge When did early hominins actively incorporate animal foods into their diets and later exploit marine and freshwater resources What were the effects of reliance on domesticated grains such as maize and rice on past populations and the health of individuals How did a domesticated plant like maize move from its place of origin to the northernmost regions where it can be grown Importantly how do we discover this information and what can be deduced about human health biology and cultural practices in the past and present Such questions are explored in thirty three chapters written by leading researchers in the study of human dietary adaptations The approaches encompass everything from information gleaned from comparisons with our nearest primate relatives tools used in procuring and preparing foods skeletal remains chemical or genetic indicators of diet and genetic variation and modern or historical ethnographic observations Examples are drawn from across the globe and information on the research methods used is embedded within each chapter The Handbook provides a comprehensive reference work for advanced undergraduate and graduate students and for professionals seeking authoritative essays on specific topics about diet in the human past

Evolution of the Human Diet Peter S. Ungar, 2007 We are interested in the evolution of hominin diets for several reasons One is the fundamental concern over our present day eating habits and the consequences of our societal choices such as obesity prevalent in some cultures and starvation in others Another is that humans have learned to feed themselves in extremely varied environments and these adaptations which are fundamentally different from those of our closest biological relatives have to have had historical roots of varying depth The third and the reason why most paleoanthropologists are interested in this question is that a species trophic level and feeding adaptations can have a strong effect on body size locomotion life history strategies geographic range habitat choice and social behavior Diet is key to understanding the ecology and evolution of our distant ancestors and their kin the early hominins A study of the range of foods eaten by our progenitors underscores just how unhealthy many of our diets are today This volume brings together authorities from disparate fields to offer new insights into the diets of our ancestors Paleontologists archaeologists primatologists nutritionists and other researchers all contribute pieces to the puzzle This volume has at its core four main sections Reconstructed diets based on hominin fossils tooth size shape structure wear and chemistry mandibular biomechanics Archaeological evidence of subsistence stone tools and modified bones Models of early hominin diets based on the diets of living primates both human and non human paleoecology and energetics Nutritional analyses and their implications for evolutionary medicine New techniques for gleaning information from fossil teeth bones and stone tools new theories stemming from studies of paleoecology and new models coming from analogy with modern humans and other primates all contribute to our understanding When these approaches are brought together they offer an impressive glimpse into the lives of our distant ancestors The contributions in this volume explore the frontiers of our knowledge in each of these

disciplines as they address the knowns the unknowns and the unknowables of the evolution of hominin diets

**The First Farmers of Central Europe** Penny Bickle, Alasdair Whittle, 2013-07-09 From about 5500 cal BC to soon after 5000 cal BC the lifeways of the first farmers of central Europe the LBK culture Linearbandkeramik are seen in distinctive practices of longhouse use settlement forms landscape choice subsistence material culture and mortuary rites Within the five or more centuries of LBK existence a dynamic sequence of changes can be seen in for instance the expansion and increasing density of settlement progressive regionalisation in pottery decoration and at the end some signs of stress or even localised crisis Although showing many features in common across its very broad distribution however the LBK phenomenon was not everywhere the same and there is a complicated mixture of uniformity and diversity This major study takes a strikingly large regional sample from northern Hungary westwards along the Danube to Alsace in the upper Rhine valley and addresses the question of the extent of diversity in the lifeways of developed and late LBK communities through a wide ranging study of diet lifetime mobility health and physical condition the presentation of the bodies of the deceased in mortuary ritual It uses an innovative combination of isotopic principally carbon nitrogen and strontium with some oxygen osteological and archaeological analysis to address difference and change across the LBK and to reflect on cultural change in general

**The Global History of Paleopathology** Jane E. Buikstra, Charlotte Roberts, 2012-06-07 The first comprehensive global history of the discipline of paleopathology

*A History of Atmospheric CO<sub>2</sub> and Its Effects on Plants, Animals, and Ecosystems* James R. Ehleringer, Thure Cerling, M. Denise Dearing, 2005-07-28 Extensive research in geology atmospheric science and paleontology provides a detailed history of CO<sub>2</sub> in the atmosphere and an understanding of factors that have influenced changes in the past This knowledge is used to illuminate the role of atmospheric CO<sub>2</sub> in the modern carbon cycle and in the evolution of plants and animals With an understanding of the history and dynamics of the biosphere the authors address the future role of atmospheric CO<sub>2</sub> and its likely effects on ecosystems This book incorporates the advances of various earth science environmental and ecological fields into an overall account of global change and the changing dynamics of life on Earth

**Bioarchaeology in the Caribbean** Darlene Weston, Yadira Chinique de Armas, 2025-07-14 Bioarchaeology in the Caribbean assembles leading and emerging scholars in Caribbean bioarchaeology offering an overview of current research in genomic analyses deathways demography and health diet and population mobility and research ethics Chapters emphasize the importance of culture in human adaptation and behavior at both population and individual levels The first volume to focus solely on Caribbean bioarchaeology this book is a landmark in this rapidly advancing area of scholarship providing insight into current research methods and theoretical debates The Caribbean region has a long and diverse history and the chapters reflect this discussing Indigenous African and European colonial populations temporally spanning the Archaic period the Early and Late Ceramic periods the time of first European contact and the Colonial period Bioarchaeology in the Caribbean will appeal to undergraduates postgraduates and researchers in bioarchaeology and Caribbean bioarchaeology and

archaeology in particular as well as local stakeholders in the Caribbean museum and archaeology professionals Histories of Maize John Staller, Robert Tykot, Bruce Benz, 2016-12-05 Maize has been described as a primary catalyst to complex sociocultural development in the Americas State of the art research on maize chronology molecular biology and stable carbon isotope research on ancient human diets have provided additional lines of evidence on the changing role of maize through time and space and its spread throughout the Americas The multidisciplinary evidence from the social and biological sciences presented in this volume have generated a much more complex picture of the economic political and religious significance of maize The volume also includes ethnographic research on the uses and roles of maize in indigenous cultures and a linguistic section that includes chapters on indigenous folk taxonomies and the role and meaning of maize to the development of civilization Histories of Maize is the most comprehensive reference source on the botanical genetic archaeological and anthropological aspects of ancient maize published to date This book will appeal to a varied audience and have no titles competing with it because of its breadth and scope The volume offers a single source of high quality summary information unavailable elsewhere **Bone Histology** Sam D. Stout, Christian Crowder, 2024-12-19 Bone Histology A Biological Anthropological Perspective Second Edition builds on the success of the first edition recognizing the significant advances that have occurred in bone biology histology and histological techniques and methods in subsequent years Bones and teeth are of considerable importance for anthropological and related research due to their nature as hard tissues The physical remains of humans available to biological anthropologists bioarchaeologists paleopathologists and paleontologists are with exception to forensic anthropology limited to skeletal material fortunately the same characteristics of hard tissues that lead to their persistence after death make them a storehouse of information about biological processes experienced during the life of the individual This book covers important aspects of bone biology which underlie the microstructure of hard tissues that are crucial for histological analysis This includes an overview of two major metabolic processes bone remodelling and modelling and their importance for understanding and interpreting bone histomorphology Subsequent chapters apply histological methods to the biological profile such as estimation of age and evaluation of pathological conditions that affect the skeleton or to determine whether remains are human or nonhuman Finally there is a discussion of current research trends in bone histology with a focus on technological advances in imaging and methods Reviews of four well documented skeletal collections developed specifically for bone histological and imaging research are discussed as well as the importance of such collections for future research Bone Histology Second Edition has assembled a collection of contributing authors with extensive experience and expertise in various aspects of hard tissue biology to provide readers with an overview of the current state of research and potential applications of histological analysis in biological anthropology forensic anthropology and skeletal biology It serves as a valuable resource for students researchers and practitioners in these and related disciplines **Prehistoric Mobility and Diet in the West Eurasian Steppes 3500 to 300 BC** Claudia

Gerling,2015-07-01 Questions concerning mobility and migration as well as subsistence strategies of past societies have always been of major importance in archaeological research The West Eurasian steppes in the Eneolithic the Early Bronze and the Iron Age were largely inhabited by cultural communities believed to show an elevated level of spatial mobility often linked to their subsistence economy In this volume questions concerning the mobility and potential migration as well as the diet and economy of the West Eurasian steppes communities during the 4th the 3rd and the 1st Millennia BC are approached by applying isotope analysis specifically  $^{87}\text{Sr}$   $^{86}\text{Sr}$   $^{18}\text{O}$   $^{15}\text{N}$  and  $^{13}\text{C}$  analyses Adapting a combination of different isotopic systems to a study area of vast spatial and chronological dimension allowed a wide variety of questions to be answered and establishes the beginning of a database of biogeochemical data for the West Eurasian steppes Besides the characterisation of mobility and subsistence patterns of the archaeological communities under discussion attempts to identify possible Early Bronze Age migrations from the steppes to the steppe like plains in parts of Eastern Europe were made alongside an evaluation of the applicability of isotope analysis to this context

**Stable Isotopes in Ecology and Environmental Science** Robert Michener,Kate Lajtha,2008-04-15 This book highlights new and emerging uses of stable isotope analysis in a variety of ecological disciplines While the use of natural abundance isotopes in ecological research is now relatively standard new techniques and ways of interpreting patterns are developing rapidly The second edition of this book provides a thorough up to date examination of these methods of research As part of the Ecological Methods and Concepts series which provides the latest information on experimental techniques in ecology this book looks at a wide range of techniques that use natural abundance isotopes to follow whole ecosystem element cycling understand processes of soil organic matter formation follow the movement of water in whole watersheds understand the effects of pollution in both terrestrial and aquatic environments study extreme systems such as hydrothermal vents follow migrating organisms In each case the book explains the background to the methodology looks at the underlying principles and assumptions and outlines the potential limitations and pitfalls Stable Isotopes in Ecology and Environmental Science is an ideal resource for both ecologists who are new to isotopic analysis and more experienced isotope ecologists interested in innovative techniques and pioneering new uses

**A Companion to Ancient Agriculture** David Hollander,Timothy Howe,2025-09-03 The first book length overview of agricultural development in the ancient world A Companion to Ancient Agriculture is an authoritative overview of the history and development of agriculture in the ancient world Focusing primarily on the Near East and Mediterranean regions this unique text explores the cultivation of the soil and rearing of animals through centuries of human civilization from the Neolithic beginnings of agriculture to Late Antiquity Chapters written by the leading scholars in their fields present a multidisciplinary examination of the agricultural methods and influences that have enabled humans to survive and prosper Consisting of thirty one chapters the Companion presents essays on a range of topics that include economic political anthropological zooarchaeological ethnobotanical and archaeobotanical investigation of ancient agriculture Chronologically organized

chapters offer in depth discussions of agriculture in Bronze Age Egypt and Mesopotamia Hellenistic Greece and Imperial Rome Iran and Central Asia and other regions Sections on comparative agricultural history discuss agriculture in the Indian subcontinent and prehistoric China while an insightful concluding section helps readers understand ancient agriculture from a modern perspective Fills the need for a full length biophysical and social overview of ancient agriculture Provides clear accounts of the current state of research written by experts in their respective areas Places ancient Mediterranean agriculture in conversation with contemporary practice in Eastern and Southern Asia Includes coverage of analysis of stable isotopes in ancient agricultural cultivation Offers plentiful illustrations references case studies and further reading suggestions A Companion to Ancient Agriculture is a much needed resource for advanced students instructors scholars and researchers in fields such as agricultural history ancient economics and in broader disciplines including classics archaeology and ancient history

*Bioarchaeology of Southeast Asia* Marc Oxenham, Nancy Tayles, 2006-04-20 Bioarchaeology of Southeast Asia focuses uniquely on the physical remains of the prehistoric peoples of this region

*Body, Dress, and Identity in Ancient Greece* Mireille M. Lee, 2015-01-12 This is the first general monograph on ancient Greek dress in English to be published in more than a century By applying modern dress theory to the ancient evidence this book reconstructs the social meanings attached to the dressed body in ancient Greece Whereas many scholars have focused on individual aspects of ancient Greek dress from the perspectives of literary visual and archaeological sources this volume synthesizes the diverse evidence and offers fresh insights into this essential aspect of ancient society

*Hair in Toxicology* Desmond John Tobin, 2007-10-31 Hair in Toxicology An Important Biomonitor is the first book of its kind devoted exclusively to in depth analysis of the hair shaft as an important tool for a diverse range of scientific investigations This authoritative book combines contributions from experts in academic governmental and industrial environments to provide a unique comprehensive look at Why hair can serve as an invaluable bio resource in toxicology with up to date reviews on hair growth hair fibre formation and hair pigmentation Information including regulatory details on the exposure of hair and by extension the body to drug and non drug chemicals and pollutants Toxicological issues relevant to the use of hair products including colourants shampoos and depilatories The ability of hair to capture information on personal identity chemical exposure and environmental interactions How hair can provide an understanding of human life from archaeological and historical perspectives Future direction in the use of hair in toxicology Hair in Toxicology An Important Biomonitor is ideal as a reference and guide to investigations in the biomedical biochemical and pharmaceutical sciences at the graduate and post graduate level

*Treatise on Geochemistry*, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was

expanded into two separate volumes dealing with meteorites and planets respectively. These additions increased the number of volumes in the Treatise from 9 to 15, with the index appendices volume remaining as the last volume, Volume 16. Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions. As a result, 27% were republished without major changes, 66% were revised, and 126 new chapters were added. In a many-faceted field such as Geochemistry, explaining and understanding how one sub-field relates to another is key. Instructors will find the complete overviews with extensive cross-referencing useful additions to their course packs, and students will benefit from the contextual organization of the subject matter. Six new volumes added and 66% updated from 1st edition. The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition. The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content, which is an amazing accomplishment for a 15-volume work, 16 volumes including index volume.

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