

biological distance analysis forensic and bioarchaeological perspectives

[#biological distance analysis](#) [#forensic anthropology](#) [#bioarchaeology](#) [#skeletal remains analysis](#) [#human population studies](#)

Explore the comprehensive field of biological distance analysis, examining its critical applications in both forensic anthropology for human identification and bioarchaeology for understanding past population dynamics, migrations, and health patterns through skeletal evidence.

Students can use these dissertations as models for structuring their own work.

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Biological Distance Analysis

Biological Distance Analysis: Forensic and Bioarchaeological Perspectives synthesizes research within the realm of biological distance analysis, highlighting current work within the field and discussing future directions. The book is divided into three main sections. The first section clearly outlines datasets and methods within biological distance analysis, beginning with a brief history of the field and how it has progressed to its current state. The second section focuses on approaches using the individual within a forensic context, including ancestry estimation and case studies. The final section concentrates on population-based bioarchaeological approaches, providing key techniques and examples from archaeological samples. The volume also includes an appendix with additional resources available to those interested in biological distance analyses. Defines datasets and how they are used within biodistance analysis Applies methodology to individual and population studies Bridges the sub-fields of forensic anthropology and bioarchaeology Highlights current research and future directions of biological distance analysis Identifies statistical programs and datasets for use in biodistance analysis Contains cases studies and thorough index for those interested in biological distance analyses

Ethics and Professionalism in Forensic Anthropology

Forensic anthropologists are confronted with ethical issues as part of their education, research, teaching, professional development, and casework. Despite the many ethical challenges that may impact forensic anthropologists, discourse and training in ethics are limited. The goal for Ethics and Professionalism in Forensic Anthropology is to outline the current state of ethics within the field and to start a discussion about the ethics, professionalism, and legal concerns associated with the practice of forensic anthropology. This volume addresses: The need for professional ethics Current ethical guidelines applicable to forensic anthropologists and their means of enforcement Different approaches to professionalism within the context of forensic anthropology, including issues of scientific

integrity, qualifications, accreditation and quality assurance The use of human subjects and human remains in forensic anthropology research Ethical and legal issues surrounding forensic anthropological casework, including: analytical notes, case reports, peer review, incidental findings, and testimony Harassment and discrimination in science, anthropology, and forensic anthropology

Handbook of Archaeological Sciences

HANDBOOK OF ARCHAEOLOGICAL SCIENCES A modern and comprehensive introduction to methods and techniques in archaeology In the newly revised Second Edition of the Handbook of Archaeological Sciences, a team of more than 100 researchers delivers a comprehensive and accessible overview of modern methods used in the archaeological sciences. The book covers all relevant approaches to obtaining and analyzing archaeological data, including dating methods, quaternary paleoenvironments, human bioarchaeology, biomolecular archaeology and archaeogenetics, resource exploitation, archaeological prospection, and assessing the decay and conservation of specimens. Overview chapters introduce readers to the relevance of each area, followed by contributions from leading experts that provide detailed technical knowledge and application examples. Readers will also find: A thorough introduction to human bioarchaeology, including hominin evolution and paleopathology The use of biomolecular analysis to characterize past environments Novel approaches to the analysis of archaeological materials that shed new light on early human lifestyles and societies In-depth explorations of the statistical and computational methods relevant to archaeology Perfect for graduate and advanced undergraduate students of archaeology, the Handbook of Archaeological Sciences will also earn a prominent place in the libraries of researchers and professionals with an interest in the geological, biological, and genetic basis of archaeological studies.

Bioarchaeological and Forensic Perspectives on Violence

Every year, there are over 1.6 million violent deaths worldwide, making violence one of the leading public health issues of our time. And with the 20th century just behind us, it's hard to forget that 191 million people lost their lives directly or indirectly through conflict. This collection of engaging case studies on violence and violent deaths reveals how violence is reconstructed from skeletal and contextual information. By sharing the complex methodologies for gleaning scientific data from human remains and the context they are found in, and complementary perspectives for examining violence from both past and contemporary societies, bioarchaeology and forensic anthropology prove to be fundamentally inseparable. This book provides a model for training forensic anthropologists and bioarchaeologists, not just in the fundamentals of excavation and skeletal analysis, but in all subfields of anthropology, to broaden their theoretical and practical approach to dealing with everyday violence.

Biological Anthropology of the Human Skeleton

An Indispensable Resource on Advanced Methods of Analysis of Human Skeletal and Dental Remains in Archaeological and Forensic Contexts Now in its third edition, Biological Anthropology of the Human Skeleton has become a key reference for bioarchaeologists, human osteologists, and paleopathologists throughout the world. It builds upon basic skills to provide the foundation for advanced scientific analyses of human skeletal remains in cultural, archaeological, and theoretical contexts. This new edition features updated coverage of topics including histomorphometry, dental morphology, stable isotope methods, and ancient DNA, as well as a number of new chapters on paleopathology. It also covers bioarchaeological ethics, taphonomy and the nature of archaeological assemblages, biomechanical analyses of archaeological human skeletons, and more. Fully updated and revised with new material written by leading researchers in the field Includes many case studies to demonstrate application of methods of analysis Offers valuable information on contexts, methods, applications, promises, and pitfalls Covering the latest advanced methods and techniques for analyzing skeletal and dental remains from archaeological discoveries, Biological Anthropology of the Human Skeleton is a trusted text for advanced undergraduates, graduate students, and professionals in human osteology, bioarchaeology, and paleopathology.

The Anthropology of Modern Human Teeth

Complete guide to genetics, evolution, and variation in human tooth crown and root morphology in modern and fossil Homo sapiens.

Evaluating Evidence in Biological Anthropology

A critical assessment of how evidence in biological anthropology is discovered, collected and interpreted.

Bioarchaeology

Bioarchaeology is the analysis of human remains within an interpretative framework that includes contextual information. This comprehensive and much-needed manual provides both a starting point and a reference for archaeologists, bioarchaeologists and others working in this integrative field. The authors cover a range of bioarchaeological methods and theory including: Ethical issues involved in dealing with human remains Theoretical approaches in bioarchaeology Techniques in taphonomy and bone analysis Lab and forensic techniques for skeletal analysis Best practices for excavation techniques Special applications in bioarchaeology With case studies from bioarchaeological research, the authors integrate theoretical and methodological discussion with a wide range of field studies from different geographic areas, time periods, and data types, to demonstrate the full scope of this important field of study.

The Oxford Handbook of Archaeological Network Research

Network research has recently been adopted as one of the tools of the trade in archaeology, used to study a wide range of topics: interactions between island communities, movements through urban spaces, visibility in past landscapes, material culture similarity, exchange, and much more. This Handbook is the first authoritative reference work for archaeological network research, featuring current topical trends and covering the archaeological application of network methods and theories. This is elaborately demonstrated through substantive topics and case studies drawn from a breadth of periods and cultures in world archaeology. It highlights and further develops the unique contributions made by archaeological research to network science, especially concerning the development of spatial and material culture network methods and approaches to studying long-term network change. This is the go-to resource for students and scholars wishing to explore how network science can be applied in archaeology through an up-to-date overview of the field.

Bioarchaeological and Forensic Perspectives on Violence

Every year, there are over 1.6 million violent deaths worldwide, making violence one of the leading public health issues of our time. And with the 20th century just behind us, it's hard to forget that 191 million people lost their lives directly or indirectly through conflict. This collection of engaging case studies on violence and violent deaths reveals how violence is reconstructed from skeletal and contextual information. By sharing the complex methodologies for gleaning scientific data from human remains and the context they are found in, and complementary perspectives for examining violence from both past and contemporary societies, bioarchaeology and forensic anthropology prove to be fundamentally inseparable. This book provides a model for training forensic anthropologists and bioarchaeologists, not just in the fundamentals of excavation and skeletal analysis, but in all subfields of anthropology, to broaden their theoretical and practical approach to dealing with everyday violence.

Bioarchaeologists Speak Out

Bioarchaeologists who study human remains in ancient, historic and contemporary settings are securely anchored within anthropology as anthropologists, yet they have not taken on the pundits the way other subdisciplines within anthropology have. Popular science authors frequently and selectively use bioarchaeological data on demography, disease, violence, migration and diet to buttress their poorly formed arguments about general trends in human behavior and health, beginning with our earliest ancestors. While bioarchaeologists are experts on these subjects, bioarchaeology and bioarchaeological approaches have largely remained invisible to the public eye. Current issues such as climate change, droughts, warfare, violence, famine, and the effects of disease are media mainstays and are subjects familiar to bioarchaeologists, many of whom have empirical data and informed viewpoints, both for topical exploration and also for predictions based on human behavior in deep time. The contributions in this volume will explore the how and where the data has been misused, present new ways of using evidence in the service of making new discoveries, and demonstrate ways that our long term interdisciplinarity lends itself to transdisciplinary wisdom. We also consider possible reasons for bioarchaeological invisibility and offer advice concerning the absolute necessity of bioarchaeologists speaking out through social media.

Dental Morphology for Anthropology

This work provides a new, comprehensive update to the Arizona State University Dental Anthropology System (ASUDAS). Drawing upon her extensive experience in informatics, curating data, and dental morphological data acquisition, Edgar has developed accessible and user-friendly standardized images and descriptions of dental morphological variants. The manual provides nearly 400 illustrations that indicate ideal expressions of each dental trait. These drawings are coupled with over 650 photographs of real teeth, indicating real-world examples of each expression. Additionally, trait descriptions have been written to be clear, comparative, and easy to apply. Together, the images and descriptions are presented in a standardized form for quick and clear reference. All of these modifications to ASUDAS make it more usable for students and professionals alike. In addition to these features of the manual, the text makes a brief but strong argument for why dental morphology will continue to be a useful tool in biological anthropology through the 21st century.

Repatriation, Science and Identity

Repatriation, Science, and Identity explores the entanglement of race, history, identity and ethics inherent in the application of scientific techniques to determine the provenance of Indigenous Ancestral Remains in repatriation claims and processes. The book considers how these issues relate to collections of Indigenous Ancestral (bodily) Remains but also their resonance with emerging concerns about the relatively unknown history of scientific interest in Indigenous hair and blood samples. It also explores the more recent practice of sampling for the purposes of DNA analysis and issues concerning the data that has been produced from all of the above types of research. Placing recent interest in applying scientific techniques to repatriation in their historical context, it enables discourses of identity and scientific authority, an assessment of their efficacy and an exploration of ethical and practical challenges and opportunities. In doing so, this book reveals new histories about scientific interest in Indigenous biology and the collections that resulted, as well as providing reflection for all repatriation practitioners considering scientific investigation when faced with the challenges inherent in the repatriation of unprovenanced or poorly provenanced Ancestral Remains. Providing the reader with a means to approach the value, or otherwise, of the scientific information they may encounter, Repatriation, Science, and Identity is an invaluable resource for researchers and professionals working with Indigenous Ancestral Remains.

Peopling the Landscape of Çatalhöyük

This volume reports on the ways in which humans engaged in their material and biotic environments at Çatalhöyük, using a wide range of archaeological evidence. This volume also summarizes work on the skeletal remains recovered from the site, as well as analytical research on isotopes and aDNA.

Bioarchaeology of Care through Population-Level Analyses

New methods for understanding healthcare in past societies “Provides unique and useful models that demonstrate how inferences can be made about communities of care in samples ranging in size from

several dozen to several thousand. Authors weave together diverse lines of evidence—osteological, archaeological, ethnographic, clinical—in their historical and cultural contexts. Sophisticated analytical tools and theoretical frameworks position this book at the cutting edge of bioarchaeological research and illustrate the cultural relativity of care, caregiving, and healthcare in the past and present, and in Western and non-Western contexts.”—Alexis Boutin, coeditor of *Remembering the Dead in the Ancient Near East: Recent Contributions from Bioarchaeology and Mortuary Archaeology*

Representing current and emerging methods and theory, this volume introduces new avenues for exploring how prehistoric and historic communities provided health care for their sick, injured, and disabled members. It adjusts and expands the bioarchaeology of care framework—a way of analyzing caregiving in the past designed for individual case studies of human skeletal remains—to detect and examine care at the population level. Covering a range of time from the Archaic period to the present, contributors discuss community settings including British hospitals and nursing homes, a shell burial mound site in Alabama, and the Mississippi State Asylum. These essays offer insights into the care given to children and those with reduced mobility, the social burden of health care, practices of euthanasia, and the relationship between care for the mentally ill and structural violence. A necessary extension to our understanding of the complexities of caregiving in the past, *Bioarchaeology of Care through Population-Level Analyses* shows that it is important to recognize the impact of disease or disability on both the individuals affected and their broader communities. Contributors demonstrate that flexibility in bioarchaeological modeling and methodology can result in robust and nuanced scholarship on caregiving in the past and the societies that provided that care. A volume in the series *Bioarchaeological Interpretations of the Human Past: Local, Regional, and Global Perspectives*, edited by Clark Spencer Larsen

Contributors: Petra Banks | Anna-Marie C. Casserly | Briana R. Moore | Anna Osterholtz | Bennjamin J. Penny-Mason | Charlotte A. Roberts | Alecia Schrenk | Diana S. Simpson | Lori A. Tremblay

A Laboratory Manual for Forensic Anthropology

A Laboratory Manual for Forensic Anthropology approaches forensic anthropology as a modern and well-developed science, and includes consideration of forensic anthropology within the broader forensic science community, with extensive use of case studies and recent research, technology and challenges that are applied in field and lab contexts. This book covers all practical aspects of forensic anthropology, from field recoveries, to lab analyses, emphasizing hands-on activities. Topics include human osteology and odontology, examination methods, medicolegal significance, scene processing methods, forensic taphonomy, skeletal processing and sampling, sex estimation, ancestry estimation, age estimation, stature estimation, skeletal variation, trauma analysis, and personal identification. Although some aspects are specific to the United States, the vast majority of the material is internationally-relevant and therefore suitable for forensic anthropology courses in other countries. Provides a comprehensive lab manual that is applicable to coursework in forensic anthropology and archaeology

Covers all practical aspects of forensic anthropology, from field recoveries, to lab analyses

Includes discussions of human osteology and odontology, examination methods, medicolegal significance, scene processing methods, forensic taphonomy, skeletal processing and sampling, sex estimation, and more

Emphasizes best practices in the field, providing an approach that is in line with today's professional forensic anthropology

The Routledge Handbook of Museums, Heritage, and Death

This book provides a comprehensive examination of death, dying, and human remains in museums and heritage sites around the world. Presenting a diverse range of contributions from scholars, practitioners, and artists, the book reminds us that death and the dead body are omnipresent in museum and heritage spaces. Chapters appraise collection practices and their historical context, present global perspectives and potential resolutions, and suggest how death and dying should be presented to the public. Acknowledging that professionals in the galleries, libraries, archives, and museums (GLAM) fields are engaging in vital discussions about repatriation and anti-colonialist narratives, the book includes reflections on a variety of deathscapes that are at the forefront of the debate. Taking a multivocal approach, the handbook provides a foundation for debate as well as a reference for how the dead are treated within the public arena. Most important, perhaps, the book highlights best practices and calls for more ethical frameworks and strategies for collaboration, particularly with descendant communities. *The Routledge Handbook of Museums, Heritage, and Death* will be useful to all individuals working with, studying, and interested in curation and exhibition at museums and heritage sites around the world. It will be of particular interest to those working in the fields of heritage, museum studies, death studies, archaeology, anthropology, sociology, and history.

The Biocultural Consequences of Contact in Mexico

Examining the long-lasting effects of European colonization on Mexican populations *The Biocultural Consequences of Contact in Mexico* explores how Mexican populations have been shaped both culturally and biologically by the arrival of Spanish conquistadors and the years following the defeat of the Aztec empire in 1521. Contributors to this volume draw on a diverse set of methods from archaeology, bioarchaeology, genetics, and history to examine the response to European colonization, providing evidence for the resilience of the Mexican people in the face of tumultuous change. Essays focus on Central Mexico, Yucatan, and Oaxaca, providing a cross-regional perspective, and they highlight Mexican scholars' work and viewpoints. They examine the effects of the castas system—which the colonizers used to organize society according to parentage and the social construction of race—on individuals' and groups' access to power, social mobility, health, and mate choice. Contributors illuminate the poorly understood extent that this system—and the national identity of mestizaje that replaced it—caused inequality and the structural violence of stress and health disparities, as well as genetic admixture. Five hundred years after the Spanish first clashed with Aztec forces and began to influence modern Mexico, this volume adds to discussions of colonialism, the reconstruction of biosocial relationships, and the work of decolonization. Students and scholars in anthropology and history will gain insights into how human populations transform and adapt in the wake of major historical events that result in migration, demographic change, and social upheaval. Contributors: Josefina Bautista Martínez | Alfredo Coppa | Andrea Cucina | Heather J. H. Edgar | Blanca Z. González-Sobrinó | María Teresa Jaén Esquivel | Haagen D. Klaus | Michaela Lucci | Abigail Meza-Peñaloza | Emily Moes | Corey S. Ragsdale | Katelyn M. Rusk | Robert C. Schwaller | Julie K. Wesp | Cathy Willermet A volume in the series *Bioarchaeological Interpretations of the Human Past: Local, Regional, and Global Perspectives*, edited by Clark Spencer Larsen

Dental Anthropology

Accessible and engaging, this is the definitive textbook on using teeth to study the demography and ways of life in ancient human communities. Based on extensive laboratory and field experience, this new edition combines archaeological approaches with new technologies and methodologies, covering the key advances in anatomy, forensics, 3D imaging, stable isotopes, and proteomics. Hillson provides a biological context for teeth, a guide on key skills, an introduction to current debates, and advice for the excavation, conservation and recording of dental remains. He also showcases the microscopic structure of dental tissues alongside methods of age-determination. Discover solutions to problems such as identifying worn, fragmentary human teeth or understanding their condition. This is the ideal reference for advanced courses in anthropology or archaeology, and for everyone interested in dental remains from archaeological sites, museum collections or forensic cases. Online teaching resources include videos of lectures and practicals.

Coloniality in the Maya Lowlands

Coloniality in the Maya Lowlands explores what has been required of the Maya to survive both internal and external threats and other destabilizing forces. These include shifting power dynamics and sociocultural transformations, tumultuous political regimes, the precarity of newly formed nation states, migration in search of refuge, and newly globalizing economies in the Yucatecan lowlands in the Late Colonial to Early National periods—the times when formal Spanish colonial rule was giving way to Yucatecan and Mexican neocolonial settler systems. The work takes a hemispheric approach to the historical and material analysis of colonialism, bridging the often disparate literatures on coloniality and settler colonialism. Archaeologists and anthropologists working in what are today southeastern Mexico, Belize, Guatemala, and Honduras grapple with the material realities of coloniality at a regional level. They provide sustained discussions of Maya experiences with wide-ranging colonial endurances: violence, resource insecurity, land rights, refugees, the control of borders, the movement of contraband, surveillance, individual and collective agency, consumption, and use of historic resources. Considering a future for historical archaeologies of the Maya region that bridges anthropology, ethnohistory, Indigenous studies, settler colonial studies, and Latin American studies, *Coloniality in the Maya Lowlands* presents a new understanding of how ways of being in the Maya world have formed and changed over time, as well as the shared investments of historical archaeologists and sociocultural anthropologists working in the Maya region. Contributors: Fernando Armstrong-Fumero, Alejandra Badillo Sánchez, Adolfo Iván Batún Alpuche, A. Brooke Bonorden, Maia C. Dedrick, Scott L. Fedick, Fior García Lara,

John Gust, Brett A. Houk, Rosemary A. Joyce, Gertrude B. Kilgore, Jennifer P. Mathews, Patricia A. McAnany, James W. Meierhoff, Fabián A. Olán de la Cruz, Julie K. Wesp

Mesoamerican Archaeology

A unique and wide-ranging introduction to the major prehispanic and colonial societies of Mexico and Central America, featuring new and revised material throughout *Mesoamerican Archaeology: Theory and Practice, Second Edition*, provides readers with a diverse and well-balanced view of the archaeology of the indigenous societies of Mexico and Central America, helping students better understand key concepts and engage with contemporary debates and issues within the field. The fully updated second edition incorporates contemporary research that reflects new approaches and trends in Mesoamerican archaeology. New and revised chapters from first-time and returning authors cover the archaeology of Mesoamerican cultural history, from the early Gulf Coast Olmec, to the Classic and Postclassic Maya, to the cultures of Oaxaca and Central Mexico before and after colonization. Presenting a wide range of approaches that illustrate political, socio-economic, and symbolic interpretations, this textbook: Encourages students to consider diverse ways of thinking about Mesoamerica: as a linguistic area, as a geographic region, and as a network of communities of practice Represents a wide spectrum of perspectives and approaches to Mesoamerican archaeology, including coverage of the Postclassic and Colonial periods Enables readers to think critically about how explanations of the past are produced, verified, and debated Includes accessible introductory material to ensure that students and non-specialists understand the chronological and geographic frameworks of the Mesoamerican tradition Discusses recent developments in the contemporary theory and practice of Mesoamerican archaeology Presents new and original research by a team of internationally recognized contributors *Mesoamerican Archaeology: Theory and Practice, Second Edition*, is ideal for use in undergraduate courses on the archaeology of Mexico and Central America, as well as for broader courses on the archaeology of the Americas.

Studies in Forensic Biohistory

Highlights the role of anthropologists in revealing the histories and contemporary social facts that are reflected in dead bodies.

3D Data Acquisition for Bioarchaeology, Forensic Anthropology, and Archaeology

3D Data Acquisition for Bioarchaeology, Forensic Anthropology, and Archaeology serves as a handbook for the collection and processing of 3-D scanned data and as a tool for scholars interested in pursuing research projects with 3-D models. The book's chapters enhance the reader's understanding of the technology by covering virtual model processing protocols, alignment methods, actual data acquisition techniques, basic technological protocols, and considerations of variation in research design associated with biological anthropology and archaeology. Thoroughly guides the reader through the "how-to on different stages of 3D-data-related research Provides statistical analysis options for 3D image data Covers protocols, methods and techniques as associated with biological anthropology and archaeology

Bioarchaeological and Forensic Perspectives on Violence

Case studies on violent deaths from the past and present vividly illustrate how anthropologists construct meaning from the victim's bones.

Taiwan Archaeology

In *Taiwan Archaeology: Local Development and Cultural Boundaries in the China Seas*, Richard Pearson describes the archaeology of the island, outlining the major discoveries of the past fifty years. These date from roughly 200,000 years ago to the pivotal seventeenth century AD, the time of Dutch and Spanish contact and the entry of Taiwan into global trade markets. The book focuses on some forty sites and is based on roughly 450 published sources in English, Chinese, and Japanese and includes a brief discussion of finds from the surrounding areas of Fujian, Guangdong, the northern Philippines, and the Ryukyu Islands, noting their significance for understanding Taiwan. This discussion allows for comparison of the different historical trajectories of the neighboring regions of the East and South China Seas through more than five millennia. While the early chapters are primarily descriptive with some interpretive conclusions, the final chapter contains discussions of general topics that integrate

and interpret the earlier narrative sections and highlight some of the most interesting topics of the latest research. Among the subjects covered are the effects of sea level change, ancient exchange systems of basalt from Penghu and nephrite from Fengtian (Hualien), and glass beads from Southeast Asia and the China mainland. The prehistoric people of Taiwan lived in a similar fashion to the peoples of the adjacent mainland until around 3500 years ago, when their cultural and political developmental trajectories diverged as Taiwan became isolated from the increasingly complex societies of Guangdong and Fujian. New data show that southern and eastern Taiwan groups participated in exchange networks with people in Island Southeast Asia as early as 2500 years ago. Unique in its coverage of recent advances in the study of the long-term history of Taiwan and surrounding areas, Taiwan Archaeology explores many features of the island's premodern past that are key to understanding its current geopolitical situation.

The Routledge Handbook of Mesoamerican Bioarchaeology

This volume brings together a range of contributors with different and hybrid academic backgrounds to explore, through bioarchaeology, the past human experience in the territories that span Mesoamerica. This handbook provides systematic bioarchaeological coverage of skeletal research in the ancient Mesoamericas. It offers an integrated collection of engrained, bioculturally embedded explorations of relevant and timely topics, such as population shifts, lifestyles, body concepts, beauty, gender, health, foodways, social inequality, and violence. The additional treatment of new methodologies, local cultural settings, and theoretic frames rounds out the scope of this handbook. The selection of 36 chapter contributions invites readers to engage with the human condition in ancient and not-so-ancient Mesoamerica and beyond. The Routledge Handbook of Mesoamerican Bioarchaeology is addressed to an audience of Mesoamericanists, students, and researchers in bioarchaeology and related fields. It serves as a comprehensive reference for courses on Mesoamerica, bioarchaeology, and Native American studies.

Bioarchaeology

The core subject matter of bioarchaeology is the lives of past peoples, interpreted anthropologically. Human remains, contextualized archaeologically and historically, form the unit of study. Integrative and frequently inter-disciplinary, bioarchaeology draws methods and theoretical perspectives from across the sciences and the humanities. Bioarchaeology: The Contextual Study of Human Remains focuses upon the contemporary practice of bioarchaeology in North American contexts, its accomplishments and challenges. Appendixes, a glossary and 150 page bibliography make the volume extremely useful for research and teaching.

New Perspectives in Forensic Human Skeletal Identification

New Perspectives in Forensic Human Skeletal Identification provides a comprehensive and up-to-date perspective on human identification methods in forensic anthropology. Divided into four distinct sections, the chapters will reflect recent advances in human skeletal identification, including statistical and morphometric methods for assessing the biological profile (sex, age, ancestry, stature), biochemical methods of identification (DNA analysis, stable isotope analysis, bomb curve analysis), and use of comparative radiography. The final section of this book highlights advances in human identification techniques that are being applied to international populations and disaster victims. The contributing authors represent established experts in forensic anthropology and closely related fields. New Perspectives in Forensic Human Skeletal Identification will be an essential resource for researchers, practitioners, and advanced students interested in state-of-the-art methods for human identification. A comprehensive and up-to-date volume on human identification methods in forensic anthropology. Focuses on recent advances such as statistical and morphometric methods for assessing the biological profile, biochemical methods of identification and use of comparative radiography. Includes an entire section on human identification techniques being applied to international populations and disaster victims.

Hofmeyr

This edited volume provides the historical and geological background, as well as the details pertaining to the morphology and morphometric assessments, of a singular human cranial specimen from the Late Pleistocene discovered in Hofmeyr, South Africa. The chapters are divided into 4 main sections. Section 1 discusses the discovery and historical context of the skull, while section 2 addresses

its geological and geochronological contexts through dating and stable isotope analyses. Section 3 details the general morphological and morphometric analyses (description, 3-D reconstruction, morphological comparisons), and section 4 details the specific morphological analyses performed (inner ear, dentition, endocranial morphology and size). The volume will be of interest to professional and student paleoanthropologists interested in the later phases of human evolution.

These Were People Once

People buy and sell human remains online. Most of this trade these days is over social media. In a study of this 'bone trade', how it works, and why it matters, the authors review and use a variety of methods drawn from the digital humanities to analyze the sheer volume of social media posts in search of answers to questions regarding this online bone trade. The answers speak to how the 21st century understands and constructs 'heritage' more generally: each person their own expert, yet seeking community and validation, and like the major encyclopedic museums, built on a kind of digital neocolonialist othering of the dead.

Case Studies in Forensic Anthropology

Through a set of unique case studies written by an international group of practicing forensic anthropologists, *Case Studies in Forensic Anthropology: Bonified Skeletons* prepares students and professionals for the diverse range of cases and challenges they will encounter in the field. Every forensic anthropology case is unique. Practitioners routinely face new challenges and unexpected outcomes. Courses and introductory texts generally address standard or ideal cases. In practice, however, forensic anthropologists must improvise frequently during forensic archaeological recoveries and laboratory analyses based on case circumstances. Most forensic anthropologists have encountered unconventional cases with surprising results. While these cases act as continuing education for practitioners—better preparing them for future encounters—such learning opportunities may be limited by the extent of personal experiences. This text exposes practitioners and students to a diverse array of case examples they may not otherwise encounter, sharing experiential knowledge and contributing to the advancement the field. *Case Studies in Forensic Anthropology* aims to both prepare aspiring forensic anthropologists and inform current practitioners. The cases are interesting and unique, detailing how specific challenges contribute to the body of forensic anthropological knowledge and practice. Key Features Full-color photographs illustrate the scenes and skeletal features "Lessons Learned" sections for each case study emphasize take-away points Thought-provoking "Discussion Questions" encourage readers to think critically and facilitate group discussions Actual case experiences by diverse array of forensic anthropologists who discuss innovative methods and unique challenges

Handbook of Forensic Anthropology and Archaeology

With contributions from 70 experienced practitioners from around the world, this second edition of the authoritative *Handbook of Forensic Archaeology and Anthropology* provides a solid foundation in both the practical and ethical components of forensic work. The book weaves together the discipline's historical development; current field methods for analyzing crime, natural disasters, and human atrocities; an array of laboratory techniques; key case studies involving legal, professional, and ethical issues; and ideas about the future of forensic work—all from a global perspective. This fully revised second edition expands the geographic representation of the first edition by including chapters from practitioners in South Africa and Colombia, and adds exciting new chapters on the International Commission on Missing Persons and on forensic work being done to identify victims of the Battle of Fromelles during World War I. The *Handbook of Forensic Anthropology and Archaeology* provides an updated perspective of the disciplines of forensic archaeology and anthropology.

Atlas of Human Cranial Macromorphoscopic Traits

Atlas of Human Cranial Macromorphoscopic Traits synthesizes macromorphoscopic traits and their analysis in an accessible manner, providing detailed descriptions and examples of the various character state manifestations intended for use in classrooms, laboratories, and in the field. The volume begins with an outline of the macromorphoscopic dataset, its history, recent modifications to the historical approach, and recent technological and analytical advances. Additional sections cover Nomenclature, Gross Anatomy, Function, Methodology, Line Drawings, Detailed Definitions, Multiple High-resolution Photographs, and Population Variation Data from the Macromorphoscopic Databank (MaMD). The volume concludes with a chapter outlining the statistical analysis of macromorphoscopic data and a

summary of the computer programs and reference databases available to forensic anthropologists for the analysis of these data. Provides detailed descriptions, illustrations and high-resolution images of various character state manifestations of seventeen macromorphoscopic traits Applies to both forensic and bioarcheological research Written by the foremost expert on macromorphoscopic trait analysis and estimation of ancestry in forensic anthropology

The Routledge Handbook of the Bioarchaeology of Climate and Environmental Change

This handbook examines human responses to climatic and environmental changes in the past, and their impacts on disease patterns, nutritional status, migration, and interpersonal violence. Bioarchaeology—the study of archaeological human skeletons—provides direct evidence of the human experience of past climate and environmental changes and serves as an important complement to paleoclimate, historical, and archaeological approaches to changes we may expect with global warming. Comprising 27 chapters from experts across a broad range of time periods and geographical regions, this book addresses hypotheses about how climate and environmental changes impact human health and well-being, factors that promote resilience, and circumstances that make migration or interpersonal violence a more likely outcome. The volume highlights the potential relevance of bioarchaeological analysis to contemporary challenges by organizing the chapters into a framework outlined by the United Nation's Sustainable Development Goals for 2030. Planning for a warmer world requires knowledge about humans as biological organisms with a deep connection to Earth's ecosystems balanced by an appreciation of how historical and socio-cultural circumstances, socioeconomic inequality, degrees of urbanization, community mobility, and social institutions play a role in shaping long-term outcomes for human communities. Containing a wealth of nuanced perspectives about human-environmental relations, book is key reading for students of environmental archaeology, bioarchaeology, and the history of disease. By providing a longer view of contemporary challenges, it may also interest readers in public health, public policy, and planning.

Research Methods in Human Skeletal Biology

Research Methods in Human Skeletal Biology serves as the one location readers can go to not only learn how to conduct research in general, but how research is specifically conducted within human skeletal biology. It outlines the current types of research being conducted within each sub-specialty of skeletal biology, and gives the reader the tools to set up a research project in skeletal biology. It also suggests several ideas for potential projects. Each chapter has an inclusive bibliography, which can serve as a good jumpstart for project references. Provides a step-by-step guide to conducting research in human skeletal biology Covers diverse topics (sexing, aging, stature and ancestry estimation) and new technologies (histology, medical imaging, and geometric morphometrics) Excellent accompaniment to existing forensic anthropology or osteology works

Forensic Odontology

Forensic Odontology: Principles and Practice details the aspects necessary to become an accomplished forensic odontologist, including an illustration of the skills necessary to become an expert witness. The book is ideal for both the experienced and novice forensic odontologist, covering many fields of expertise, including civil and criminal matters. The civil side involves standard of care and personal injury matters, while the criminal side involves not only dental identification, but management of mass fatality incidents, age assessment, child and elder abuse, and bitemark analysis. Provides a comprehensive review of forensic odontology, including the skills necessary to become a competent expert witness Covers the fields of forensic odontology, the basic skills, legal aspects, legal precedents, report writing and expert witness testimony Includes numerous illustrations, including charts and graphs, along with B&W and color images

Forensic Genetic Approaches for Identification of Human Skeletal Remains

Forensic Genetic Approaches for Identification of Human Skeletal Remains: Challenges, Best Practices, and Emerging Technologies provides best practices on processing bone samples for DNA testing. The book outlines forensic genetics tools that are available for the identification of skeletal remains in contemporary casework and historical/archaeological investigations. Although the book focuses primarily on the use of DNA for direct identification or kinship analyses, it also highlights complementary disciplines often used in concert with genetic data to make positive identifications, such as forensic anthropology, forensic odontology, and forensic art/sculpting. Unidentified human remains are often

associated with tragic events, such as fires, terrorist attacks, natural disasters, war conflicts, genocide, airline crashes, homicide, and human rights violations under oppressive totalitarian regimes. In these situations, extensive damage to soft tissues often precludes the use of such biological samples in the identification process. In contrast, bone material is the most resilient, viable sample type for DNA testing. DNA recovered from bone often is degraded and in low quantities due to the effects of human decomposition, environmental exposure, and the passage of time. The complexities of bone microstructure and its rigid nature make skeletal remains one of the most challenging sample types for DNA testing. Provides best practices on processing bone samples for DNA testing Presents detailed coverage of proper facilities design for skeletal remains processing, selection of optimal skeletal elements for DNA recovery, specialized equipment needed, preparation and cleaning of bone samples for DNA extraction, and more Highlights complementary disciplines often used in concert with genetic data to make positive identifications, such as forensic anthropology, forensic odontology, and forensic art/sculpting

Taphonomy of Human Remains

A truly interdisciplinary approach to this core subject within Forensic Science Combines essential theory with practical crime scene work Includes case studies Applicable to all time periods so has relevance for conventional archaeology, prehistory and anthropology Combines points of view from both established practitioners and young researchers to ensure relevance

A Companion to Forensic Anthropology

A Companion to Forensic Anthropology presents the most comprehensive assessment of the philosophy, goals, and practice of forensic anthropology currently available, with chapters by renowned international scholars and experts. Highlights the latest advances in forensic anthropology research, as well as the most effective practices and techniques used by professional forensic anthropologists in the field Illustrates the development of skeletal biological profiles and offers important new evidence on statistical validation of these analytical methods. Evaluates the goals and methods of forensic archaeology, including the preservation of context at surface-scattered remains, buried bodies and fatal fire scenes, and recovery and identification issues related to large-scale mass disaster scenes and mass grave excavation.

Children in the Bible and the Ancient World

The topic of children in the Bible has long been under-represented, but this has recently changed with the development of childhood studies in broader fields, and the work of several dedicated scholars. While many reading methods are employed in this emerging field, comparative work with children in the ancient world has been an important tool to understand the function of children in biblical texts. Children in the Bible and the Ancient World broadly introduces children in the ancient world, and specifically children in the Bible. It brings together an international group of experts who help readers understand how children are constructed in biblical literature across three broad areas: children in the Hebrew Bible and the Ancient Near East, children in Christian writings and the Greco-Roman world, and children and materiality. The diverse essays cover topics such as: vows in Ugarit and the Hebrew Bible, obstetric knowledge, infant abandonment, the role of marriage, Greek abandonment texts, ritual entry for children into Christian communities, education, sexual abuse, and the role of archeological figurines in children's lives. The volume also includes expertise in biological anthropology to study the skeletal remains of ancient children, as well as how ancient texts illuminate Mary's female maturity. The volume is written in an accessible style suitable for non-specialists, and it is equipped with a helpful resource bibliography that organizes select secondary sources from these essays into meaningful categories for further study. Children in the Bible and the Ancient World is a helpful introduction to any who study children and childhood in the ancient world. In addition, the volume will be of interest to experts who are engaged in historical approaches to biblical studies, while appreciating how the ancient world continues to illuminate select topics in biblical texts.

[animal hematotoxicology a practical guide for toxicologists and biomedical researchers](#)

Toxicology - Toxicology by Royal Society Of Chemistry 100,647 views 5 years ago 4 minutes, 1 second
- A look at the science of poisons.
Toxicology to reduce the use of animals in research - Toxicology to reduce the use of animals in

research by Royal Society Of Chemistry 922 views 1 year ago 3 minutes, 19 seconds - Fiona Sewell is the Head of **Toxicology**, at the NC3Rs, focusing on the replacement, reduction and refinement of the use of ...

Introduction to Non-whole Animal Test Methods - Introduction to Non-whole Animal Test Methods by PETA Science Consortium International e.V. 110 views 6 years ago 25 minutes - Recorded for the course "Replacing regulatory experiments on **animals**,: an introduction to in silico models and in vitro test ...

Introduction to Non-whole Animal Test Methods and Overview of Presentations

Institute for In Vitro Sciences

Activities: Education

IIVS' Mission Practical knowledge (Science)

Introduction to Non-animal Test Methods

Introduction Initial focus was on Eye and Skin toxicology

Relationship of In Vitro Models to In Vivo Tissues

Overview Four major groups of non-animal test methods used in research and regulatory safety testing of chemicals and products

Practical Considerations for Testing Is testing for product development, product stewardship, or regulatory classification and labeling? Availability of selected methods (regional, political) Consider the following to select most appropriate methods : physicochemical properties of the chemical or formulation

In Vitro Monolayer Cell Systems . Generally easy to conduct - cell lines . Generally quite rapid to execute

Limitations of Simple Monolayer Assays Aqueous insoluble materials

Toxicology in Normal Human Epidermal Keratinocyte Cells

Ex Vivo Tissues and Organs

Ex Vivo Tissue or Organ Assays

Limitations of Ex Vivo Assays

In Vitro 3D Human Reconstructed Tissues for Product Safety and Regulatory Toxicology

3D Reconstructed Human Tissue Models

Non-cellular or in chemico Test Systems for Product Safety and Regulatory Toxicology

Limitations of Non-cellular or In Chemico Models Some process-based test methods require specialized equipment (ex. DPRA: HPLC)

Becoming a Toxicologist - Becoming a Toxicologist by MIT OpenCourseWare 26,176 views 6 years ago 4 minutes, 29 seconds - In this video, Prof. John Essigmann shares what inspired him to become a **toxicologist**,. License: Creative Commons BY-NC-SA ...

Diagnosing and Avoiding Poisoning of Ecosystems, Animals, and People: Part 1: OneToxicology -

Diagnosing and Avoiding Poisoning of Ecosystems, Animals, and People: Part 1: OneToxicology by VetMedAcademy 315 views 5 years ago 15 minutes - Part 1 of a presentation by Val Beasley, DVM, PhD, DABVT as part of the WikiVet Live 2018 teleconference co-organized by ...

Successors to the Canary in the Coalmine: Diagnosing & Avoiding Poisoning of Ecosystems, Animals, & People in Today's World PART 1: ONE Toxicology

Historical 18905-1986: Canaries in coal mines were sentinels of airborne toxicant exposures.

Today's World: The same airborne toxicants are important in homes-pet birds & families affected!

The Lancet Commission on Pollution and Health (2017)

Impacts Depend on Genomes, Biochemical Receptors, Metabolism, Physiology, Lifestyles, Diets, Locations, & Human Choices (Exposures)

Sometimes animals with equivalent exposures are more sensitive than humans. Other times they are less sensitive Often, we do not know

The Future of Toxicology - The Future of Toxicology by Animal-Free Safety Assessment Collaboration 4,947 views 4 years ago 5 minutes, 21 seconds - "The Future of **Toxicology**," is the first video in "Pathways to a Better Future," a series of educational videos about new uses of ...

"Basic Overview of Preclinical Toxicology - Animal Models" - "Basic Overview of Preclinical Toxicology - Animal Models" by CCTS 12,987 views 8 years ago 1 hour - Charles D. Hebert, PhD, DABT Southern

Research, Alabama Drug Discovery Alliance Seminar Series.

Introduction

Agenda

Outline

Background

Drug Discovery

Metabolic Stability

Toxicity

Metabolism

NVivo

Testing Types

Dose Range

Single Dose Studies

Long Term Administration

Biologics

Animal Models

Accurate Predictive Models

Inappropriate Models

Bottom Line

What is toxicology? - What is toxicology? by Risk Bites 48,414 views 8 years ago 3 minutes, 6 seconds
- What is **toxicology**, and why might a **toxicologist**, just turn out to be your best friend? Risk Bites takes a look in this brief introduction ...

What Is The Deadliest Substance On Earth? Toxicity Comparison - What Is The Deadliest Substance On Earth? Toxicity Comparison by The Infographics Show 9,192,966 views 6 years ago 7 minutes, 39 seconds
- How little of this substance will it take to cause death to you? What is the most toxic substance in the world? Let's take a look in this ...

Tetrodotoxin

Arsenic

Strychnine

Cyanide

Sarin

Mercury

Batrachotoxin

Botulinum Toxin

CHUNK TUNA

Marine Mammals: Champions of the Deep - Marine Mammals: Champions of the Deep by Best Documentary 1,080,343 views 10 months ago 49 minutes
- Beneath the surface of the ocean exists an incredibly hostile world - an icy world immersed in eternal darkness where the ...

One Drop of This Poison Could Kill the Whole World - One Drop of This Poison Could Kill the Whole World by The Infographics Show 2,280,775 views 2 years ago 11 minutes, 54 seconds
- A single drop could kill the entire world? Find out what insanely deadly toxin is powerful enough to wipe us all out in today's new ...

Lead poisoning Mnemonic Super Easy - Toxicology - Lead poisoning Mnemonic Super Easy - Toxicology by Dr. Nitin Singh Dabas 86,617 views 5 years ago 3 minutes, 1 second

An Intro to Forensics: The Science of Crime - An Intro to Forensics: The Science of Crime by SciShow 1,414,100 views 8 years ago 9 minutes, 24 seconds
- Do you enjoy crime shows and murder podcasts? If so, forensics may be for you! In this episode of SciShow, we're going to ...

Intro

FORENSICS

LIVOR MORTIS

PIXEL

KASTLE-MEYER TEST

DNA ANALYSIS

STR ANALYSIS

M3I MoDRN Toxicology Dose Response - M3I MoDRN Toxicology Dose Response by YaleCourses 52,813 views 8 years ago 17 minutes
- Module 3: **Toxicology**, M3I MoDRN **Toxicology**, Dose Response In this module Prof. Anastas introduces basic concepts of toxicity ...

Dose Response

S Curve

LD50s

Distribution

Reference Dose

Uncertainty Factors

What is Forensic Toxicology? - What is Forensic Toxicology? by Friendly Forensics 31,225 views 4 years ago 8 minutes, 42 seconds
- An introduction into the field of forensic **toxicology**, including

how this branch of science helped to convict Janie Lou Gibbs in 1967 ...

Toxicology

Forensic Toxicology

Role of a Forensic Toxicologist

Forensic Toxicology Janie Lu Gibbs

How We Go from Animal Model to Clinical Trial - How We Go from Animal Model to Clinical Trial by SciShow 78,357 views 4 years ago 6 minutes, 2 seconds - Testing new treatments in other **animals**, can help us spot complications or potential pitfalls, but the results don't always carry over ...

FOR THE MOST PART, RODENTS ARE PRETTY GOOD SUBSTITUTES BESIDES, TESTING A DRUG IN PRIMATES DOESN'T GUARANTEE A SMOOTH TRANSITION TO HUMAN TRIALS RESEARCHERS ALSO SET GUIDELINES FOR ADVERSE EVENT OUTCOMES BASICALLY, WHAT REACTIONS MEAN IT'S TIME TO CALL IT QUILTS

THEY MAKE GUIDELINES TO DETERMINE HOW TO REACT IF THINGS GO WRONG, WHICH TAKE INTO ACCOUNT EVERYTHING FROM THE NUMBER OF PARTICIPANTS AFFECTED TO THE SEVERITY OF THEIR REACTIONS

This Is What Snake Venom Does To Blood | Catalyst | ABC Science - This Is What Snake Venom Does To Blood | Catalyst | ABC Science by ABC Science 272,382 views 2 years ago 5 minutes, 14 seconds - #ABCCatalyst #Snakes Subscribe: <https://ab.co/2YFO4Go> Like: <https://www.facebook.com/ABC-Science> Follow: ...

Coastal Taipan

Venom Glands

Venom Gland

Action of Venom

6 Deadly 'Undetectable' Poisons (and How to Detect Them!) - 6 Deadly 'Undetectable' Poisons (and How to Detect Them!) by SciShow 2,960,930 views 6 years ago 11 minutes, 43 seconds - What makes a "perfect poison?" In books and movies, poisoning has always been a popular method of getting rid of one's ...

Intro

ARSENIC

CYANIDE

THALLIUM

POLONIUM-210

ETHYLENE GLYCOL

Animal Poisoning | Forensic Lectures | Medical Student Online Education | V-Learning - Animal Poisoning | Forensic Lectures | Medical Student Online Education | V-Learning by sqadia.com 1,128 views 4 years ago 3 minutes, 30 seconds - Animal, Poisoning in Forensic Medicine is discussed with the perspective of how **animals**, bite causes fatal poisoning in humans.

Small Animal Toxicology - Small Animal Toxicology by Kansas State Veterinary Diagnostic Laboratory 355 views 11 months ago 59 minutes - The top 10 toxins of dogs and cats, from poisoned pet call-in centers will be covered. Sample submission, treatment and ...

Toxicology Session 1 - Toxicology Session 1 by Royal Society Of Chemistry 4,530 views 7 years ago 52 minutes - ... gold nanoparticles that have been imaged by near infrared imaging you can see them inside an **animal**, these were have labels ...

Toxicology Evidence Guidelines - Toxicology Evidence Guidelines by Georgia GBI-DOFS 3,233 views 11 years ago 5 minutes, 22 seconds - The service is performed by the **toxicology**, section of the division of Forensic Sciences are some of the most sought after tests ...

Toxicologist Answers Poison Questions From Twitter | Tech Support | WIRED - Toxicologist Answers Poison Questions From Twitter | Tech Support | WIRED by WIRED 5,694,281 views 2 years ago 14 minutes, 18 seconds - Toxicologist, Anne Chappelle answers the internet's burning questions about poison. How do antidotes work? Can a pencil give ...

(GxP) Toxicology studies - PMDA-ATC Learning Videos - (GxP) Toxicology studies - PMDA-ATC Learning Videos by Pmda Channel 641 views 10 months ago 6 minutes, 9 seconds - This video introduces how non-clinical safety assessments are made by taking some of the typical toxicity studies as examples ...

Nanotoxicologist - Nanotoxicologist by Royal Society Of Chemistry 16,678 views 8 years ago 3 minutes, 17 seconds - Vicki specialises in how tiny nanomaterials interact with our bodies and manages the testing of everyday products such as ...

Introduction to Toxicology - Introduction to Toxicology by PEER at TAMU 25,636 views 6 years ago 45 minutes - Histology professor, Dr. Larry Johnson discusses the history of toxicological events leading

to current studies and current ...

Define Toxicology

Sources of Toxicants

History of Toxicology

Lethal Doses

Occupational and Environmental Tox

Toxicology Terms

Fundamental Rules and Exposure Conc

Routes of Exposure

What Processes (mechanisms) Does the Body Have to Counteract the Detrimental Effects of Toxicants

General Scheme of Toxicant Metabolism

Types of Toxic Effects

Toxicologist, chemical company - Toxicologist, chemical company by Royal Society Of Chemistry

8,179 views 5 years ago 3 minutes, 26 seconds - Nicholas discusses his challenging work as a

Toxicologist, bringing together scientific fields to ensure that chemicals are used ...

Toxicity Testing In Marine Animals - Toxicity Testing In Marine Animals by Scope TV 2,353 views 5 years ago 3 minutes, 22 seconds - Marine **animals**, 'cells can be used to test how chemicals effect them - this could help protect our ocean wildlife. Griffith Uni's Dr ...

Systems Toxicology integrates toxic effects from human cells to population - Systems Toxicology integrates toxic effects from human cells to population by Science Animated 22,043 views 4 years ago 2 minutes, 12 seconds - This animation is a simplified explanation of what Systems **Toxicology**, is, which elements it consists of, and how it advances ...

Human Illnesses Need Modern Methods of Research, Not Animal Experiments - Human Illnesses Need Modern Methods of Research, Not Animal Experiments by PETA (People for the Ethical Treatment of Animals) 7,317 views 1 year ago 42 seconds - Experiments on **animals**, are a scientific and moral crime. So how do we stop them? PETA has the answer. You can find out more ...

BREATHING LUNG CHIP

HUMAN BRAIN MAPPING

HUMAN ORGANOIDS FOR DRUG SCREENING

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Domestic Violence and Psychology | A Critical Perspective

by P Nicolson · 2010 · Cited by 67 — This book rethinks the way psychological knowledge of domestic violence has typically been constructed. It puts forward a psychological ...

Domestic Violence and Psychology: Critical Perspectives ...

Despite changes to laws and policies across most western democracies intended to combat violence to women, intimate partner violence and abuse (IPVA) ...

Domestic violence and psychology: A critical perspective.

by P Nicolson · 2010 · Cited by 67 — This book rethinks the way psychological knowledge of domestic violence has typically been constructed. As well as being critical of the traditional 'woman ...

Domestic Violence and Psychology: A Critical Perspective ...

Amazon.com: Domestic Violence and Psychology: A Critical Perspective (Women and Psychology): 9780415383721: Nicolson, Paula: Books.

Domestic Violence and Psychology: A Critical Perspective

This book rethinks the way psychological knowledge of domestic violence has typically been constructed. It puts forward a psychological perspective which is ...

Domestic Violence and Psychology (Women ...

Despite changes to laws and policies across most western democracies intended to combat violence to women, intimate partner violence and abuse (IPVA) ...

Domestic Violence and Psychology: A Critical Perspective

by KB Anderson · 2011 — Similar articles: · Available access. Book Review: Domestic violence and psychology: Critical perspectives on intimate partner violence and abuse by Paula ...

Domestic violence and psychology : a critical perspective ...

Full contents: 1. Domestic violence : the material context; 2. What is domestic abuse? 3. Psychology, feminism, and ideology : where do we go from here?

P. Nicolson (2010) Domestic Violence and Psychology

Abuse · Law · Criminal Law · Crime · Domestic Violence. Book. P. Nicolson (2010) Domestic Violence and Psychology: A Critical Perspective, London: Taylor and ...

a critical perspective / Paula Nicolson. - Record details

Domestic violence and psychology : a critical perspective / Paula Nicolson. · Availability & locations · Online access · Related subjects · Additional information ...

Forensic Analysis of Biological Evidence A Laboratory ...

Supplies the background principles and practical methodology for specific serological analysis and DNA typing techniques. Simulates human forensic testing and ...

Forensic Analysis of Biological Evidence | A Laboratory Guide ...

by JT McClintock · 2017 · Cited by 15 — A powerful tool in the identification of individuals, DNA typing has revolutionized criminal and paternity investigations.

A Laboratory Guide for Serological and DNA Typing

Forensic Analysis of Biological Evidence: A Laboratory Guide for Serological and DNA Typing: 9781138426788: Medicine & Health Science Books @ Amazon.com.

E-Book : Forensic analysis of biological evidence : a ...

E-Book : Forensic analysis of biological evidence : a Laboratory guide for serological and DNA typing. J. Thomas McClintock - Nama Orang; ...

Forensic Analysis of Biological Evidence

Forensic techniques for typing deoxyribonucleic acid (DNA),1 which began developing around 1985, have replaced the classical or traditional genetic systems ...

Forensic Analysis of Biological Evidence: A Laboratory ...

2 Aug 2017 — A powerful tool in the identification of individuals, DNA typing has revolutionized criminal and paternity investigations.

A Laboratory Guide for Serological and DNA Typing 1st ...

Forensic Analysis of Biological Evidence: A Laboratory Guide for Serological and DNA Typing 1st edition by McClintock, J. Thomas (2014) Paperback.

Forensic Analysis of Biological Evidence

A powerful tool in the identification of individuals, DNA typing has revolutionized criminal and paternity investigations. Widespread analysis is now ...

A Laboratory guide for serological and DNA typing

Forensic analysis of biological evidence : A Laboratory guide for serological and DNA typing. "Whether a stand-alone laboratory manual or in conjunction ...

Forensic Analysis Of Biological Evidence A Laboratory ...

Forensic Analysis Of Biological Evidence A Laboratory Guide For Serological And Dna Typing (Pb 2014). Taylor & Francis Exclusive(Cbs), 2014. New.

A Review of Biophysiological and Biochemical Indicators ...

by T Iqbal · 2021 · Cited by 26 — Biomedical researchers are more interested in using biochemical markers for detecting stress, such as cortisol and ~~α~~amylase [14], and they ...

A Review of Biophysiological and Biochemical Indicators ...

This paper presents a review of the literature on different physiological and chemical indicators of stress, which are commonly used for quantitative assessment ...

Signs and symptoms of stress - Mind

by S Noushad · 2021 · Cited by 146 — Potential diagnostic biomarkers of chronic stress included cortisol, ACTH, BDNF, catecholamines, glucose, HbA1c, triglycerides, cholesterol, prolactin, oxytocin ...

Psychological Stress: Symptoms, Causes, Treatment & Diagnosis

Physiological and biochemical parameters/indicators are used to assess response to stress conditions (Rachmilevitch et al. 2006) . The most commonly used are ...

Stress Symptoms: Physical Effects of Stress on the Body - WebMD

by AP Allen · 2014 · Cited by 861 — Review. Biological and psychological markers of stress in humans: Focus on the Trier Social Stress Test.

A systematic review investigating psychological stress biomarkers

by A Almeida Rodrigues · 2022 · Cited by 3 — The physiological and metabolic effects of this element include photosynthetic metabolism alterations [20,21], reactive oxygen species (ROS) ...

Physiological biomarkers of chronic stress: A systematic ...

Lauchli, A. et al., Solute regulation by calcium in salt-stressed plants. In Biochemical and Cellular Mechanisms of Stress Tolerance in Plants. Cherry, J.H. Ed.

Physiological and biochemical indicators for stress tolerance

by M Mirbakhsh · Cited by 14 — Effect of short and long period of salinity stress on physiological responses and biochemical markers of Aloe vera L.

Biological and psychological markers of stress in humans

by D Agostinetti · 2022 · Cited by 2 — KARAMANOS, A. J. The involvement of proline and some metabolites in water stress and their importance as drought resistance indicators.

Morphoanatomical, Physiological, and Biochemical ...

by U Demirel · 2020 · Cited by 121 — Although our physiological data demonstrated severe photosynthetic restriction, biochemical markers of stress were less pronounced with almost ...

Physiological and Biochemical Indicators for Stress ...

Effect of short and long period of salinity stress ... - Jurnal UGM

Differences in biochemical, physiological and molecular ...

Physiological, Biochemical, and Transcriptional ...

[ancient dna recovery and analysis of genetic material from paleontological archaeological museum medical](#)

Ancient DNA reveals the truth about Vikings - BBC REEL - Ancient DNA reveals the truth about Vikings - BBC REEL by BBC Reel 2,210,570 views 2 years ago 5 minutes, 17 seconds - Vikings are often thought of as 'pure-bred', blonde-haired, and blue-eyed warriors who changed the course of European history.

How ancient DNA sequencing changed the game - How ancient DNA sequencing changed the game by nature video 37,668 views 3 years ago 6 minutes, 31 seconds - The past two decades have witnessed extraordinary technological and computational advances in nucleic acid sequencing.

HOT Topic: The Latest Genetic and Archaeological Evidence for the Peopling of the Americas - HOT Topic: The Latest Genetic and Archaeological Evidence for the Peopling of the Americas by Smithsonian's National Museum of Natural History 82,923 views 1 year ago 59 minutes - How` and when` did people first come to the American continents? In this video, Jennifer Raff, Associate Professor of ...

Introduction

History

Overview

Acknowledgements

Clovis First Model

The Last Glacial Maximum

The Clovis Model

New Evidence

New Questions

Ancient DNA Recovery

Ancient DNA

Complete genomes

Upper Paleolithic in Asia

Southern Native Americans

Human Footprints

Genetic Gaps

Scientific Origins

Thank You

Questions

Native Data Sovereignty

Is it possible to use current DNA from populations

Population Y ancestry

Underwater archaeology

Is there a genetic link

How long does it take for a genetic group to become its own

Different kinds of ancient DNA

Multiple migrations

Genetic separation

How is ancestry determined

Can you hear me now

Practical impacts for health

Can you speak to the role of genetics being used or misused

Closing

Unveiling the Secrets of Ancient DNA: An Interview with Magnus Lundgren - Unveiling the Secrets of Ancient DNA: An Interview with Magnus Lundgren by SciLifeLab 205 views 8 months ago 1 minute, 46 seconds - DNA,, the hereditary **material**, of all known living organisms, has a remarkable stability

and can be **analyzed**, even after very long ...

Ancient DNA in the time of Stonehenge - Ancient DNA in the time of Stonehenge by British Museum Events 27,488 views Streamed 1 year ago 59 minutes - What can **ancient DNA**, tell us about how people lived in the time of Stonehenge? From diet to migration, the **study**, of **ancient DNA**, ...

Ancient DNA and the New Science of the Human Past - Ancient DNA and the New Science of the Human Past by Harvard Museum of Natural History 1,124,455 views 5 years ago 1 hour, 6 minutes - David Reich, Professor, Department of **Genetics**, Harvard **Medical**, School; Investigator, Howard Hughes **Medical**, Institute; Senior ...

Intro

The Disruptive Power of Ancient DNA

Ancient DNA: A new scientific instrument

Large scale ancient DNA Big samples sizes necessary to do studies on a population level

How the Genome Reveals the Past

st lesson in humility We are not 100% African

Was there interbreeding?

Test for gene flow Does Neandertal match some humans than others?

Conclusions of Neandertal interbreeding

Denisovan DNA

Denisova genes widespread east of Wallace Line

Conclusions of Denisova interbreeding

The Pandora's Box of Mixtures Between Archaic Humans Opened by Ancient DNA

nd lesson in humility: "White" people are a recent phenomenon

Before 5,000 years ago Europeans were a mixture of two ancestries but today there is a third

The third population arrives after 5,000 years ago

Summary: Europe massively transformed by two migrations

Yamnaya ancestry spreads West

Yamnaya ancestry spreads East

Lesson in Humility - the deep history of South America

View from 2015 Genetic evidence for two founding populations for the Americas

View from 2018 in light of ancient DNA The 2018 Ancient DNA Explosion in the Americas

Exploring Prehistory with Ancient DNA - Exploring Prehistory with Ancient DNA by University of Aberdeen 5,053 views 3 years ago 30 minutes - In this Little Lecture, Dr Linus Girdland looks at

Exploring Prehistory with **Ancient DNA**,.

The ancient DNA revolution!

Last week's Science: Dogs, dirt and Denisovans

The Guanche: 12 samples (from Edinburgh)

The Guanches - genomic autosomal affinity

The Guanches - contribution to modern Canary Islanders?

Ancient Megalithic tombs!

Ancestors - Burial Archaeology and Ancient DNA ¦ Alice Roberts Lecture 01/12/2022 - Ancestors -

Burial Archaeology and Ancient DNA ¦ Alice Roberts Lecture 01/12/2022 by Francis Crick Institute

41,037 views 1 year ago 38 minutes - Alice Roberts is an anatomist & anthropologist, author & broadcaster, specialising in human **anatomy**, physiology, evolution, ...

Introduction

Stonehenge

Amesbury

Beaker Culture

Salisbury Museum

Stone plaques

Barbed arrowheads

Copper knives

Mysterious objects

Pottery

Beaker Phenomenon

IndoEuropean Languages

Amesbury Archer

The First Millennium

Byzantine Bucket

Scrappy Bones

Phil Harding
Ancient DNA Lab
AngloSaxons
The Thousand Ancient genomes project
Memory

'Exploring the genetic ancestry of the Picts with ancient DNA' - 'Exploring the genetic ancestry of the Picts with ancient DNA' by Recording Archaeology 904 views 3 months ago 17 minutes - Linus Girdland-Flink.

Ancient DNA reveals surprising truth about Otzi the Iceman - Ancient DNA reveals surprising truth about Otzi the Iceman by Hidden History 906,277 views 6 months ago 8 minutes, 4 seconds - DNA, sequencing has revealed new details about Europe's **oldest**, natural mummy - Ötzi the Iceman.
#OtziTheIceman #neolithic ...

Intro

Discovery

Results

Analysis

Limitations

Conclusion

Signs of VIKING ANCESTRY You Shouldn't Ignore - Signs of VIKING ANCESTRY You Shouldn't Ignore by Weird World 4,086,674 views 3 years ago 6 minutes, 13 seconds - #vikings #interesting #weirdworld ----- The ferocious seafaring vikings were a feared Scandinavian ...

The Viking Age in England

Putrin's Contracture

The Norse Homeland

This Dinosaur Was Literally Alive One Week Ago. Dinosaur Found in Perfect Condition - This Dinosaur Was Literally Alive One Week Ago. Dinosaur Found in Perfect Condition by WATOP 1,552,387 views 11 months ago 24 minutes - For copyright matters please contact us at: copymanager-watop@gmail.com.

Intro

Sue

Notosaurus

Storage methods

The mummy

Blue Babe

Ancient water

Oldest water

Lego study

Mammoth

Tasmanian Wolf

Amber

Lecture | Genetic History of Europe Adaptation and Migration in Prehistory | Johannes Krause -

Lecture | Genetic History of Europe Adaptation and Migration in Prehistory | Johannes Krause by Studium Generale Maastricht University 84,367 views 3 months ago 1 hour, 41 minutes - Ancient DNA, can reveal prehistoric events that are difficult to discern through the **study**, of **archaeological**, remains and modern ...

Introduction

Lecture

Q&A

Ancient DNA and the Anglo-Saxon Migration: Community and burial practice AD 450-750 - Duncan Sayer - Ancient DNA and the Anglo-Saxon Migration: Community and burial practice AD 450-750 - Duncan Sayer by York Ideas 10,033 views 8 months ago 1 hour, 6 minutes - Migration is a big topic today, but it was also important in our past. Groundbreaking scientific methods can be used to explore past ...

Signs of EYE COLOR ANCESTRY You Shouldn't Ignore - Signs of EYE COLOR ANCESTRY You Shouldn't Ignore by Weird World 963,518 views 2 years ago 10 minutes, 35 seconds - #interesting #ancestry #weirdworld ----- Our eye colour seems uniquely tied up with our individuality, ...

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The Williamson Tunnels

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The Real Mary Magdalene

Taj Mahal Basement

Jesus Bloodline

Horned Humans

The Limb Pit

The Mystery of Herxheim

The Hanging Coffins

Hand of God

Neolithic horrors

Secret tunnel maze

Vampire grave

Anthropomorphic ruins

Murder island

How DNA reveals Vikings never left Scotland – BBC REEL - How DNA reveals Vikings never left Scotland – BBC REEL by BBC Reel 822,817 views 1 year ago 8 minutes, 14 seconds - Vikings conquered many of Scotland's islands, as well as the mainland, in the 8th and 9th Centuries. They came, they conquered, ...

Is It Actually Possible To Clone Dinosaurs? - Is It Actually Possible To Clone Dinosaurs? by Grunge 46,617 views 1 year ago 13 minutes, 41 seconds - Jurassic World: Dominion” has hit theaters, and if the initial box office is any indication, the love of all things dinosaurs remains ...

The decomposition problem

Modern cloning doesn't work like that

They wouldn't look right

We can't even clone modern birds

Would it even live?

Copal is a no go

Unverifiable DNA

The pandemic problem

Like a dinosaur

Could synthetic DNA be the answer?

Could we and should we?

Richard Dawkins: Show Me the Intermediate Fossils! - Nebraska Vignettes #1 - Richard Dawkins:
Show Me the Intermediate Fossils! - Nebraska Vignettes #1 by Richard Dawkins Foundation for

Reason & Science 990,998 views 9 years ago 2 minutes, 31 seconds - Richard Dawkins shows how whales evolved from a cloven-hoofed ancestor, and reveals whales' closest modern-day cousin.

Intermediate Fossils

Pakicetus

HOT (Human Origins Today) Topic – Beyond Neanderthals: Ancient DNA and the Denisovans -

HOT (Human Origins Today) Topic – Beyond Neanderthals: Ancient DNA and the Denisovans by Smithsonian's National Museum of Natural History 127,133 views 1 year ago 1 hour, 1 minute - In a cave in southern Siberia, **DNA**, reveals that Neanderthals once spent time there, along with another group of early humans: ...

Housekeeping Notes

Human Prehistory and Evolution

Neanderthals

Neanderthal Fossils

Summary

Why Is It So Well Preserved

Why Would the Siberian Cave Have Such a High Concentration of Different Humans What Made Them Want To Be There

Are There any Tools Found in the Cave and if So Who Do You Think Made Them and Then Have Artifacts Been Found That Can Be Associated with the Different Types of Humans

How Do these Dna Discoveries Relate to Homo Erectus

Is the Current Political Relationship with Russia Affecting Research in Altai

Using Ancient DNA to Track the Evolution of Today's Humans - Using Ancient DNA to Track the Evolution of Today's Humans by University of California Television (UCTV) 25,459 views 3 years ago 18 minutes - (01:38 Main Presentation) Where did we humans come from? When did we become the dominant species on the planet? Experts ...

Intro

Evolution and Natural Selection

Gene Names

Ancient Populations

Height

Results

Science at Cal Lecture – Uncovering the Past: Using Genetic Data to Understand Human History - Science at Cal Lecture – Uncovering the Past: Using Genetic Data to Understand Human History by Science at Cal 15,612 views 1 year ago 1 hour, 27 minutes - Recent advances in sequencing **DNA**, have opened up new opportunities to use **genetic**, data to improve our understanding of ...

Land Acknowledgement

Science at Cal

Detecting Disinformation and Deep Fakes

Microbes Guide to the Future

Priya Morgani

Ancient Dna Data

Neanderthals

Population Mixtures

Genetic Clocks

Ancient Dna Samples

Neanderthal and Modern Human Ancestry

How Neolithic Expansion and Spread of Languages Has Potentially Impacted Our Genome

Spread of Farming across the World

Coastal Route

Bell Beaker Culture

Summary

Size of the Neanderthals

Mosaic Chromosomes

How Do Patients Become More Informed

Neanderthal Ancestry

Waking the dead: using ancient DNA to reconstruct plagues, people and places - Waking the dead: using ancient DNA to reconstruct plagues, people and places by Thinktank Museum 359 views 11 years ago 43 minutes - Join Prof Mark Pallen to discuss how the **study**, of **DNA**, and genomics has unravelled a much greater understanding of the ...

Introduction
What is DNA
Linus Pauling
Sequencebased phylogeny
Ancient DNA
Neanderthals
What is Neanderthals
Neanderthal skeletons
Neanderthal child
When did Neanderthals live
Neanderthal anatomy
Extinction
Genetic exchange
Sequences
Mitochondria
Neanderthal DNA
admixture
press release
science
nonAfrican humans
Neanderthal admixture
Neanderthal genome
Neanderthal taste
Human genome evolution
Dennistovar DNA
Dennistovar genome
New lineage
Plague
Spread of plague
Yersinia pestis
Mark Ackman
Can We Get DNA From Fossils? - Can We Get DNA From Fossils? by PBS Eons 1,449,513 views 5 years ago 11 minutes, 48 seconds - In 1993, scientists cracked open a piece of amber, took out the body of an **ancient**, weevil, and sampled its **DNA**,. Or, at least, so we ...
Intro
The Quagga
Degradation
Halflife
Preservation
Weevil DNA
PCR
Retesting
Old DNA
Recent research
Conclusion
Scientists Unlocking the Secrets of Human Evolution - Ancient DNA - Scientists Unlocking the Secrets of Human Evolution - Ancient DNA by Highly Compelling 13,750 views 9 months ago 9 minutes, 15 seconds - Ancient DNA,- is a method that has only recently been applied to the **study**, of human fossils, but researchers think it has the ...
Genomic Social Hour #18: Ancient DNA | California Academy of Sciences - Genomic Social Hour #18: Ancient DNA | California Academy of Sciences by California Academy of Sciences 953 views 3 years ago 1 hour, 13 minutes - GSH18 Speakers: • Peter Heintzman (Associate Professor, The Arctic University **Museum**, of Norway / The Arctic University of ...
Introduction
What is Ancient DNA
Case Study
Alignment
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Ancient DNA

DNA Extraction

Results

D Statistics

Coalescent Analysis

Conclusion

Question Time

Kelly Hopkins

Dr Michael Saylor

Library Prep Kits

Short Fragments

Research Futures: Ancient DNA analysis: how life lingers on - Research Futures: Ancient DNA analysis: how life lingers on by University of Portsmouth 313 views 3 years ago 50 minutes - In this webinar Dr Garry Scarlett outlined the developments in the field of **ancient DNA**, and talked about a case **study**, of work ...

Introduction

Ancient DNA Modern Necromancy

What is Ancient DNA

Why look at Ancient DNA

The Dog

Ships Dog

Case Study

Extraction of DNA

Hatch's tooth

DNA

Mitochondrial DNA

Problems with ancient DNA

Key machines

Phylogenetic map

Short tandem repeats

Jack Russell

Hatch

Contamination

Baiting

Modern approach

Be more open

DNA sequencing technology

Big DNA sequencing labs

Regulation

Ethical Approval

Question

Conclusion

The New Migrationists? Resolving studies of ancient DNA and archaeological theory - The New Migrationists? Resolving studies of ancient DNA and archaeological theory by Recording Archaeology 456 views 6 years ago 18 minutes - That we are living through a 'Golden Age' of **Ancient DNA**, research is now a truism. Recent studies of European ancient human ...

The New Migrationists? Resolving Ancient DNA and Archaeological Theory

Golden Age of Ancient DNA

Modern DNA

Next Generation Sequencing

4500 BP (2500 BC) Corded Ware

European Palaeogenomics

Are Geneticists Reductive Bastards?

Resolving Archaeological Theory and Ancient DNA

Genetics without archaeology is Lame

Conclusions

Ancient DNA Analysis: Breakthrough Technologies 2023 - Ancient DNA Analysis: Breakthrough Technologies 2023 by Science Maniacs 91 views 1 year ago 3 minutes, 36 seconds - Ancient DNA

Analysis,: Breakthrough Technologies 2023 Hey everyone! It's Wade here, your Science Maniacs correspondent for ...

"Illustrating Denisovans from their DNA" w/ Maayan Harel, M.Sc. | Fossil Friday Chats - "Illustrating Denisovans from their DNA" w/ Maayan Harel, M.Sc. | Fossil Friday Chats by Alf Museum of Paleontology 544 views Streamed 1 year ago 1 hour, 4 minutes - For nearly 10 years the Denisovan's **anatomy**, has been a mystery, as there is very little fossil evidence. The portrait of a ...

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cross-linking, deamination and fragmentation) ancient DNA is more degraded in comparison with contemporary genetic material. Even under the best preservation conditions... 59 KB (6,210 words) - 17:16, 11 December 2023

Malaysia and non-Austronesian populations in southern China. A 2007 analysis of the DNA recovered from human remains in archaeological sites of prehistoric... 257 KB (23,838 words) - 13:43, 26 February 2024

Susanne (eds.). Ancient DNA : Recovery and Analysis of Genetic Material from Paleontological, Archaeological, Museum, Medical, and Forensic Specimens... 11 KB (1,169 words) - 00:28, 7 February 2024

Ovchinnikov, Igor V.; Götherström, Anders; Romanova, Galina P.; et al. (March 30, 2000). "Molecular analysis of Neanderthal DNA from the Northern Caucasus". Nature... 250 KB (26,074 words) - 19:09, 5 March 2024

in Chemistry, and knew about errors in DNA genetic testing; David Werrett of the Forensic Science Service, who set up the UK national DNA database in Birmingham... 267 KB (38,982 words) - 13:15, 3 March 2024

testing hypotheses, and constructing theories that illustrate and describe its causes. Comparison of the DNA genetic sequences of organisms has revealed... 235 KB (27,115 words) - 13:00, 8 February 2024 included in an ancient DNA analysis for the first time (in a paper focusing mainly on the dodo), and it was found to be the sister taxon of the cuckoo-dove... 141 KB (17,595 words) - 21:36, 25 February 2024

August In the largest-ever analysis of cancer genomes, researchers have discovered the genetic imprints and signatures left by DNA-damaging processes that... 347 KB (33,008 words) - 17:05, 8 January 2024

mouse is a genetically modified mouse with an inactivated gene, replaced or disrupted with an artificial piece of DNA. They enable the study of sequenced... 211 KB (22,604 words) - 04:28, 19 February 2024

Herrmann B, Hummel S. Ancient DNA: Recovery and Analysis of Genetic Material from Paleontological, Archaeological, Museum, Medical, and Forensic Specimens... 16 KB (1,575 words) - 21:03, 12 October 2023

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Adrian M.; Götherström, Anders; Dalén, Love (17 February 2021). "Million-year-old DNA sheds light on the genomic history of mammoths". Nature. 591 (7849):... 139 KB (13,101 words) - 05:03, 15 January 2024

"Reconstructing the population history of Puerto Rico by means of mtDNA phylogeographic analysis". American Journal of Physical Anthropology. 128 (1): 131–55... 317 KB (32,309 words) - 16:54, 4 March 2024

"Ancient Earth: Birth of the Sky". PBS. "Ancient Earth: Frozen". PBS. "Ancient Earth: Life Rising". PBS. "Ancient Earth: Inferno". PBS. "Ancient Earth:... 426 KB (2,282 words) - 20:46, 7 March 2024

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2024
programs to present scientific evidence on a number of environmental issues, including nuclear power and genetic engineering". The series is named after an epic... 411 KB (9,126 words) - 10:48, 10 February 2024