Pdf Ancient Dna Methods And Protocols Methods In Molecular

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this fully updated second edition explores protocols that address the most challenging aspects of experimental work in ancient dna such as preparing ancient samples for dna extraction the dna extraction itself and transforming extracted ancient dna molecules for sequencing library preparation the volume also examines the analysis of high throughput sequencing data recovered from ancient specimens which because of the degraded nature of ancient dna and common co extraction of contaminant dna has challenges that are unique compared to data recovered from modern specimens written in the highly successful methods in molecular biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls authoritative and cutting edge ancient dna methods and protocols second edition aims to serve both experts and beginners by presenting protocols in a manner that makes them easily accessible for everyday use in the lab

interest in ancient dna is growing very rapidly in fields as diverse as evolution anthropology medicine agriculture and even law enforcement this is a valuable source of information ideas and protocols for everyone interested in this extraordinary field 50 illustrations 10 tables

this is the definitive source of information on techniques for the identification and sequencing of old dna pieces and their use in biological and medical research and application of adna techniques are useful tools for investigations reaching from evolutionary studies to law enforcement approaches what brings them together is the interest in specific methods of handling adna i e elaborated pcr and sequencing techniques and the interpretation of the results this books serves as an ideal guideline for it demonstrates how problem solving strategies can be applied in various areas

this topical volume in the respected encyclopedia series is the first in many years to bring together all important aspects of developmental biology in one source from morphogenesis and organogenesis via epigenetic regulation of gene expression to

evolutionary developmental biology the editor in chief has assembled an outstanding team of contributors to review these topics creating an authoritative work for many years to come the result is a unique top level reference in developmental biology for researchers students and professionals alike

this encyclopedia brings together the most recent scientific information on a collection of subjects that are too often and inconveniently treated in separate publications it provides a survey of archaeological method and theory as well as the application of physical and biological sciences in archaeological research every aspect of archaeological work is represented from the discovery process to the ultimate disposition of materials thus the reader will find entries on subject matter covering disciplinary theory legislation affecting the work of archaeologists pre excavation surveying excavation methodology on site conservation techniques post excavation analysis the rapid evolution of analytical technology is often superficially treated or not covered at all in textbooks or other commonly available sources here the latest refinements in techniques such as radiometric dating stable isotopic analysis and the pcr technique of dna analysis are presented clearly and authoritatively the discussion of these techniques is amplified by including results of the work of professionals conducting interdisciplinary research and by covering the methodologi enhancements provided by the physical and natural sciences cultural property legislation regardless of its country of origin has affected how archaeologists conduct their work this encyclopedia covers all major us legislation developed for the protection of cultural property including the recent native american graves protection and repatriation act and offers a substantial article on worldwide legislation concerning the reburial of human remains and its effects on the present and future practice of archaeology without some sort of conservation program at the point of excavation valuable materials may be inadvertently contaminated or destroyed many simple and low cost techniques to promote both sample integrity and long term preservation for major classes of materials are described in this volume traditional treatments of method and theory usually focus on prehistoric per

the series topics in current chemistry collections presents critical reviews from the journal topics in current chemistry organized in topical volumes the scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science the goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole the most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed the coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented contributions also offer an outlook on potential future developments in the field

papers presented at a national conference held at new delhi during 22 24 march 2004

a research strategy to examine the taxonomy of the red wolf provides independent guidance about taxonomic research on the red wolf canis rufus building from the 2019 report evaluating the taxonomic status of the mexican gray wolf and the red wolf this report reviews and ranks research applications to determine the taxonomy of wild canid populations in southern louisiana and other relevant locations the report then develops a research strategy to examine the evolutionary relationships between ancient red wolves the extant managed red wolf populations and the unidentified canid populations

a freshly updated discussion of the foundations of and latest developments in molecular anthropology in the newly revised second edition of an introduction to molecular anthropology retired researcher dr mark stoneking delivers an essential primer on genetics and molecular anthropology the book is an accessible resource that covers key recent developments in the production and analysis of genome wide data that highlights advances in methods and technologies as well as the latest findings from ancient dna the updated chapters build on basic genetics and evolutionary concepts to demonstrate how to make inferences about human population history and human evolution in the genomics age it explores how evolution influences genes how genes evolve the different kinds of genetic variation in humans and how they are analyzed and the latest technologies and ethical issues that arise from the sampling of modern populations readers will also find a thorough introduction to the genetic evidence of human origins and the spread of humans around the world comprehensive explorations of the role of selection and adaptation in human evolution practical discussions of the impact of culture on human genetic variation complete treatments of likely future developments within molecular anthropology in the genomics era perfect for anthropology students and others studying introductory human evolution an introduction to molecular anthropology will also benefit practicing anthropologists and researchers in a variety of fields that touch on this topic

ortner s identification of pathological conditions in human skeletal remains third edition provides an integrated and comprehensive treatment of the pathological conditions that affect the human skeletal remains can reveal a treasure trove of information to the modern orthopedist pathologist forensic anthropologist and radiologist this book presents a timely resource beautifully illustrated with over 1 100 photographs and drawings it provides an essential text and material on bone pathology thus helping improve the diagnostic ability of those interested in human dry bone pathology presents a comprehensive review of the skeletal diseases encountered in archaeological human remains includes more than 1100 photographs and line drawings illustrating skeletal diseases including both microscopic and gross features based on extensive research on skeletal paleopathology in many countries reviews important theoretical issues on how to interpret evidence of skeletal disease in archaeological human populations

volume detailing the effects of the molecular revolution on anthropological genetics and how it redefined the field

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

the international encyclopedia of primatology represents the first comprehensive encyclopedic reference focusing on the behaviour biology evolution genetics and taxonomy of human and non human primates represents the first comprehensive encyclopedic reference relating to primatology features more than 450 entries covering topics ranging from the taxonomy history behaviour ecology captive management and diseases of primates to their use in research cognition conservation and representations in literature includes coverage of the basic scientific concepts that underlie each topic along with the latest advances in the field highly accessible to undergraduate and graduate students in primatology anthropology and the medical biological and zoological sciences essential reference for academics researchers and commercial and conservation organizations this work is also available as an online resource at encyclopedia of primatology com

this book entitled tracking environmental change using lake sediments volume 6 sedimentary dna provides an overview of the applications of sedimentary dna based approaches to paleolimnological studies these approaches have shown considerable potential in providing information about the long term changes of overall biodiversity in lakes and their watersheds in response to natural and anthropogenic changes as well as tracking human migrations over the last thousands of years although the first studies investigating the preservation of these molecular proxies in sediments originate from the late 1990s the number of scientific publications on this topic has increased greatly over the last five years alongside numerous ecological findings several sedimentary dna studies have been dedicated to understanding the reliability of this approach to reconstruct past ecosystem changes despite the major surge of interest a comprehensive compilation of sedimentary dna approaches and applications has yet to be attempted the overall aim of this dper volume is to fill this knowledge gap

bandbook 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

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

natural history collections have recently acquired an unprecedented place of importance in scientific research originally created in the context of systematics and taxonomy they are now proving to be fundamental for answering various scientific and societal questions that are as significant as they are current natural history collections in the science of the 21st century presents a wide range of questions and answers raised by the study of collections the billions of specimens that have been collected from all around the world over more than two centuries provide us with information that is vital in our quest for knowledge about the earth the universe the diversity of life and the history of humankind these collections also provide valuable reference points from the past to help us understand the nature and dynamics of global change today their physical permanence is the best guarantee we have of a return to data and to information sources in the context of open science

only recently was it determined that two of the world s most devastating plagues the plague of justinian and the medieval black death were caused by distinct strains of the same pathogen use of paleomicrobiological techniques led to this discovery this work is just one example of the historical mysteries that this emerging field has helped to clarify others such as when tuberculosis began to afflict humans the role of lice in plague pandemics and the history of smallpox are explored and further illuminated in paleomicrobiology of humans led by editors michel drancourt and didier raoult the book s expert contributors address larger issues using paleomicrobiology these include the recognition of human remains associated with epidemic outbreaks identification of the graves of disasters and the discovery of demographic structures that reveal the presence of an epidemic moment in addition the book reviews the technical approaches and controversies associated with recovering and sequencing very old dna and surveys modern human diseases that have ancient roots essentially paleomicrobiologists aim to identify past epidemics at the crossroads of different specialties including anthropology medicine molecular biology and microbiology thus this book is of great interest not only to microbiologists but to medical historians and anthropologists as well paleomicrobiology of humans is the first comprehensive book to examine so many aspects of this new multidisciplinary scientific field

the extended specimen highlights the research potential for ornithological specimens and is meant to encourage ornithologists poised to initiate a renaissance in collections based ornithological research contributors illustrate how collections and specimens are used in novel ways by adopting emerging new technologies and analytical techniques case studies use museum specimens and emerging and non traditional types of specimens which are developing new methods for making biological collections more accessible and usable for ornithological researchers published in collaboration with and on behalf of the american ornithological society this volume in the highly regarded studies in avian biology series documents the power of ornithological collections to address key research questions of global importance

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