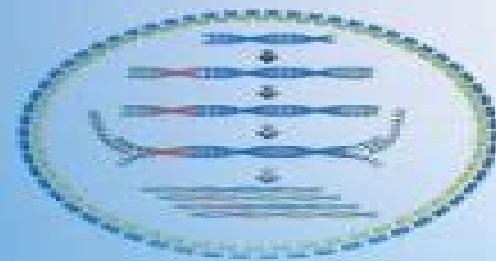


Methods in
Molecular Biology 840

Springer Protocols

Beth Shapiro
Michael Hofreiter *Editors*



Ancient DNA

Methods and Protocols

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Aleš Hrdlička



Ancient Dna Methods And Protocols Methods In Molecular:

Ancient DNA Beth Shapiro, Axel Barlow, Peter D. Heintzman, Michael Hofreiter, Johanna L.A. Paijmans, André E.R. Soares, 2019-05-15 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

Frontiers in Developmental Biology Robert A. Meyers, 2019-05-28 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

Diagnostic Molecular Biology Chang-Hui Shen, 2023-06-29 Diagnostic Molecular Biology Second Edition describes the fundamentals of molecular biology in a clear concise manner with each technique explained within its conceptual framework and current applications of clinical laboratory techniques comprehensively covered This targeted approach covers the principles of molecular biology including basic knowledge of nucleic acids proteins and chromosomes the basic techniques and instrumentations commonly used in the field of molecular biology including detailed procedures and explanations and the applications of the principles and techniques currently employed in the clinical laboratory Topics such as whole exome sequencing whole genome sequencing RNA seq and ChIP seq round out the discussion Fully updated this new edition adds recent advances in the detection of respiratory virus infections in humans like influenza RSV hAdV hRV but also corona This book expands the discussion on NGS application and its role in future precision medicine Provides explanations on how techniques are used to diagnosis at the molecular level Explains how to use information technology to communicate and assess results in the lab Enhances our understanding of fundamental molecular biology and places techniques in context Places protocols into context with practical applications Includes extra chapters on respiratory viruses Corona

Zoological Collections of Germany Lothar A. Beck, 2018-02-05 This book is devoted to the knowledge of up to 250 years of collecting organizing and preserving animals by generations of scientists

Zoological Collections are a huge resource for modern animal research and should be available for national and international scientists and institutions as well as prospective public and private customers Moreover these collections are an important part of the scientific enterprise supporting scientific research human health public education and the conservation of biodiversity Much of what we are beginning to understand about our world we owe to the collection preservation and ongoing study of natural specimens Properly preserved collections of marine or terrestrial animals are libraries of Earth s history and vital to our ability to learn about our place in its future The approach employed by the editor involves not only an introduction to the topic but also an external view on German collections including an assessment of their value in the international and national context and information on the international and national collection networks Particular attention is given to new approaches of sorting preserving and researching in Zoological Collections as well as their neglect and or threat In addition the book provides information on all big Public Research Museums on important Collections in regional Country and local District Museums and also on University collections This is a highly informative and carefully presented book providing scientific insight for readers with an interest in biodiversity taxonomy or evolution as well as natural history collections at large Handbook of Archaeological Sciences A. Mark Pollard,Ruth Ann Armitage,Cheryl A.

Makarewicz,2023-02-09 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 **Epigenomics Implication for Economic Traits in Domestic Animals** Chunfang Zhao,Zebin Zhang,Bo

Han,Guoqiang Yi,Shenghe Li,Sihua Jin,2023-08-02

Applied Uses of Ancient DNA Nic Rawlence,Michael David

Martin,Nathan Wales,Michael Knapp,2021-06-17

Molecular Methods in Ecology Allan Baker,2009-04-01 The

incorporation of molecular methods in ecological research has added an exciting new dimension to conventional studies and

opened windows into previously intractable areas of research at the interface between ecology and genetics Using these new methods it has now become routine to use genetic markers to study ecological phenomena from molecular sexing of individuals and parentage of offspring through to population structure of species and phylogenetic relationships of taxa These methods have stimulated an explosion of empirical and analytical developments in molecular ecology which have in turn increasingly attracted students and professional biologists eager to employ them in their studies Molecular Methods in Ecology traces the development of molecular ecology by reviewing basic molecular biological techniques and earlier methods such as protein electrophoresis DNA DNA hybridisation restriction analysis of DNA and DNA fingerprinting Later chapters review methods using newer classes of markers such as microsatellites introns MHC SSRs and AFLP markers in plants and molecular sexing in animals The strengths and limitations of methods are discussed and guidance is provided in selecting the most appropriate methods for particular problems in ecology This book will provide both postgraduates and researchers with a guide to choosing and employing appropriate methodologies for successful research in the field of molecular ecology Provides up to date summaries of the latest molecular approaches in this rapidly expanding field Gives guidance on the appropriate choice of methods for particular problems in ecology and their strengths and limitations Provides brief laboratory protocols for each molecular method and summaries of software available for analysis of data in molecular ecology Outlines examples of the latest research results from studies of both plants and animals integrated within the framework of molecular ecology

Europe's Lost Frontiers: Volume 1 Vincent Gaffney, Simon Fitch, 2022-08-11 Europe's Lost Frontiers was the largest directed archaeological research project in Europe investigating the inundated landscapes of the Early Holocene North Sea often referred to as Doggerland The first in a series of monographs presenting the results of the project this book provides the context of the study and method statements

An Archaeological Palimpsest in Minoan Crete Georgia Flouda, 2023-01-01 This publication presents the archaeological evidence from two associated Minoan sites situated at Apesokari in the Mesara Plain of South Central Crete Tholos Tomb A and the neighboring free standing domestic complex on Vigla Hill It thoroughly reconstructs the natural and social landscape of this Cretan community from the late Prepalatial to the early Neopalatial periods through its interdisciplinary character this includes photogrammetric two and three dimensional models of the architectural remains viewshed analysis of both monuments and of the earlier Tholos Tomb B as well as a DNA and stable isotope analysis of the bones The study of the burial dataset provides insights into the social construction of collective memory and identity by the burying social group whereas the habitational deposits from the building on Vigla hill establish the longevity and function of the site as a node of the southern Mesara communication and exchange networks

Forensic DNA Typing Protocols Angel Carracedo, 2008-02-02 A state of the art collection of readily reproducible laboratory methods for DNA identity analysis including Y chromosome haplotyping mtDNA and SNP typing The book offers well tested protocols for DNA quantification using real time PCR on forensic samples and for the determination of

the number of amelogenine gene copies For forensic geneticists there are readily reproducible methods for species identification ancient DNA and pharmacogenetics Additional chapters address new applications in the forensic genetics lab such a species identification or typing of CYP polymorphisms for the analysis of adverse to drugs *PCR Protocols* John M. S. Bartlett, David Stirling, 2008-02-03 In this new edition the editors have thoroughly updated and dramatically expanded the number of protocols to take advantage of the newest technologies used in all branches of research and clinical medicine today These proven methods include real time PCR SNP analysis nested PCR direct PCR and long range PCR Among the highlights are chapters on genome profiling by SAGE differential display and chip technologies the amplification of whole genome DNA by random degenerate oligonucleotide PCR and the refinement of PCR methods for the analysis of fragmented DNA from fixed tissues Each fully tested protocol is described in step by step detail by an established expert in the field and includes a background introduction outlining the principle behind the technique equipment and reagent lists tips on trouble shooting and avoiding known pitfalls and where needed a discussion of the interpretation and use of results **The International Encyclopedia of Primatology, 3 Volume Set** Agustín Fuentes, 2017-04-24 The International Encyclopedia of Primatology represents the first comprehensive encyclopedic reference focusing on the behaviour biology ecology 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 www.encyclopediaofprimatology.com **A Research Strategy to Examine the Taxonomy of the Red Wolf** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Board on Life Sciences, Committee on Assistance to the U.S. Fish and Wildlife Service on Taxonomic Studies of the Red Wolf: A Review of Applications to Carry Out Research and Development of a Research Strategy, 2021-01-29 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 **Natural History Collections in the Science of the 21st Century** Roseli Pellens, 2021-11-30 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

A Companion to Anthropological Genetics Dennis H. O'Rourke, 2019-03-19 Explore the latest research in anthropological genetics and understand the genome's role in cultural and social development A Companion to Anthropological Genetics illustrates the role of genetic analysis in advancing the modern study of human origins populations evolution and diversity Broad in scope this essential reference work establishes and explores the relationship between genetic research and the major questions of anthropological study Through contributions by leading researchers this collection explores molecular genetics and evolutionary mechanisms in the context of macro and microevolution paleontology phylogeny diet and disease with detailed explanations of quantitative methods including coalescent and approximate Bayesian computation With an emphasis on contextualizing new and developing genetic research within anthropological frameworks this text offers critical perspective on the conditions of molecular evolution that accompany cultural and social transformation while also addressing critical disciplinary questions such as the ethical issues surrounding ancestry testing and community based genetic research Acts as an essential reference on the contributions of genetic science to the field of anthropology Features new work by leading researchers of the field Explores the evolution of immunity including the genetics and epigenetics of pathogens chronic illness and disease resistance Provides in depth examination of mutation and dietary adaptation including AMY1 lactase persistence and sensory polymorphisms Explains essential quantitative and phylogenetic methods for aligning genomic analysis with evolution and migration time scales Offering thorough coverage on leading questions and developing research A Companion to Anthropological Genetics is a comprehensive resource for students and scholars

The Grape Genome Dario Cantu, M. Andrew Walker, 2019-11-13 This book describes the current state of international grape genomics with a focus on the latest findings tools and strategies employed in genome sequencing and analysis and genetic mapping of important agronomic traits It also discusses how these are having a direct impact on outcomes for grape breeders and the international grape research community While *V. vinifera* is a model species it is not always appreciated that its cultivation usually requires the use of other *Vitis* species as rootstocks The book discusses genetic diversity within the *Vitis* genus the available genetic resources for breeding and the available genomic resources for other *Vitis* species Grapes *Vitis vinifera* spp *vinifera* have been a source of food and wine since their

domestication from their wild progenitor *Vitis vinifera* ssp *sylvestris* around 8 000 years ago and they are now the world's most valuable horticultural crop. In addition to being economically important, *V. vinifera* is also a model organism for the study of perennial fruit crops for two reasons. Firstly, its ability to be transformed and micropropagated via somatic embryogenesis, and secondly, its relatively small genome size of 500 Mb. The economic importance of grapes made *V. vinifera* an obvious early candidate for genomic sequencing, and accordingly, two draft genomes were reported in 2007. Remarkably, these were the first genomes of any fruiting crop to be sequenced and only the fourth for flowering plants. Although riddled with gaps and potentially omitting large regions of repetitive sequences, the two genomes have provided valuable insights into grape genomes. Cited in over 2 000 articles, the genome has served as a reference in more than 3 000 genome-wide transcriptional analyses. Further recent advances in DNA sequencing and bioinformatics are enabling the assembly of reference-grade genome references for more grape genotypes, revealing the exceptional extent of structural variation in the species.

DNA, Race, and Reproduction Emily Klancher Merchant, Meaghan O'Keefe, 2025-01-07. A free ebook version of this title is available through Luminos University of California Press's Open Access publishing program. Visit www.luminosoa.org to learn more. *DNA, Race, and Reproduction* helps readers inside and outside of academia evaluate and engage with the current genomic landscape. It brings together expertise in law, medicine, religion, history, anthropology, philosophy, and genetics to examine how scientists, medical professionals, and laypeople use genomic concepts to construct racial identity and make or advise reproductive decisions, often at the same moment. It critically and accessibly interrogates how DNA figures in the reproduction of racialized bodies and the racialization of reproduction and examines the privileged position from which genomic knowledge claims to speak about human bodies, societies, and activities. The volume begins from the premise that reproduction, regardless of the means, forces a confrontation between biomedical, scientific, and popular understandings of genetics, and that those understandings are often racialized. It therefore centers reproduction as both a site of analysis and an analytic lens.

Wood in Archaeology Lee A. Newsom, 2022-01-20. It considers research involving archaeological wood in all forms, ranging from fuelwood to ships' timbers, from sites around the globe.

Applied Environmental Genomics Oliver F. Berry, Clare E. Holleley, Simon N. Jarman, 2023-12-01. DNA is the essence of life, and the original big data. New technologies are allowing scientists to access and make sense of this information like never before, and they are using it to solve the world's greatest environmental challenges. *Applied Environmental Genomics* synthesises the latest and most exciting uses of genomic technologies for environmental science and management. With an emphasis on diversity of applications and real-world demonstrations, leading researchers have contributed detailed chapters on innovative approaches to obtaining critical management-relevant information about the natural world. These chapters are complemented by perspective sections written by environmental managers who describe their experiences using genomics to support evidence-based decisions. Ideal for students, researchers, and professionals working in natural resource management and policy. *Applied Environmental*

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