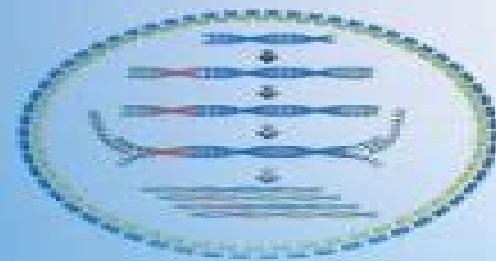


Methods in
Molecular Biology 840

Springer Protocols

Beth Shapiro
Michael Hofreiter *Editors*



Ancient DNA

Methods and Protocols

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Ancient Dna Methods And Protocols Methods In Molecular

Roseli Pellens



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

Paleomicrobiology of Humans Michel Drancourt, Didier A. Raoult, 2020-07-16 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

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

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

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 *Applied Uses of*

Ancient DNA Nic Rawlence,Michael David Martin,Nathan Wales,Michael Knapp,2021-06-17 **Forensic Genetic**

Approaches for Identification of Human Skeletal Remains Angie Ambers,2022-11-15 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 **Viral Metagenomics** Vitantonio Pantaleo,Laura Miozzi,2023-12-07 This second edition volume expands on the previous edition with discussions about the latest viral metagenomics aspects covering a range of different specimens such as soil freshwater wastewater fecal samples blood plasma clinical tissues fungi and herbarium samples Chapters also look at different viral groups including archaeal viruses eukaryotic viruses phages mycoviruses and circular DNA viruses Techniques required for studying the three viral metagenomic steps of samples processing library construction and analysis of data are also discussed 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 Vital Metagenomics Methods and Protocols Second Edition is a valuable resource for researchers who are

interested in learning more about this important and developing field Epigenomics Implication for Economic Traits in Domestic Animals Chunfang Zhao,Zebin Zhang,Bo Han,Guoqiang Yi,Shenghe Li,Sihua Jin,2023-08-02 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 **Human Mobility and Technological Transfer in the Prehistoric Mediterranean** Evangelia Kiriati,Carl Knappett,2016-12-24 The diverse forms of regional connectivity in the ancient world have recently become an important focus for those interested in the deep history of globalisation This volume represents a significant contribution to this new trend as it engages thematically with a wide range of connectivities in the later prehistory of the Mediterranean from the later Neolithic of northern Greece to the Levantine Iron Age and with diverse forms of materiality from pottery and metal to stone and glass With theoretical overviews from leading thinkers in prehistoric mobilities and commentaries from top specialists in neighbouring domains the volume integrates detailed case studies within a comparative framework The result is a thorough treatment of many of the key issues of regional interaction and technological diversity facing archaeologists working across diverse places and periods As this book presents key case studies for human and technological mobility across the eastern Mediterranean in later prehistory it will be of interest primarily to Mediterranean archaeologists though also to historians and anthropologists 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

Reflections of Our Past John H. Relethford, Deborah A. Bolnick, 2018-03-26 The rise of the multi billion dollar ancestry testing industry points to one immutable truth about us as human beings we want to know where we come from and who our ancestors were John H Relethford and Deborah A Bolnick explore this topic and many more in this second edition of *Reflections of Our Past* Where did modern humans come from and how important are the biological differences among us Are we descended from Neandertals How should we understand the connections between genetic ancestry race and identity Were Native Americans the first to inhabit the Americas Can we see evidence of the Viking invasions of Ireland a millennium ago even in the Irish of today Through engaging examination of issues such as these and using non technical language *Reflections of Our Past* shows how anthropologists use genetic information to suggest answers to fundamental questions about human history By looking at genetic variation in the world today and in the past we can reconstruct the recent and remote events and processes that have created the variation we see providing a fascinating reflection of our genetic past

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

Handbook of Molecular Biotechnology Dongyou Liu, 2024-09-05 With a history that likely dates back to the dawn of human civilization more than 10 000 years ago and a record that includes the domestication and selective breeding of plants and animals the harnessing of fermentation process for bread cheese and brewage production and the development of vaccines against infectious diseases biotechnology has acquired a molecular focus during the 20th century particularly following the resolution of DNA double helix in 1953 and the publication of DNA cloning protocol in 1973 and transformed our concepts and practices in disease diagnosis treatment and prevention pharmaceutical and industrial manufacturing animal and plant industry and food processing While molecular biotechnology offers unlimited opportunities for improving human health and well being animal welfare agricultural innovation and environmental conservation a dearth of high quality

books that have the clarity of laboratory manuals without distractive procedural details and the thoroughness of well conversed textbooks appears to dampen the enthusiasm of aspiring students. In attempt to fill this glaring gap, Handbook of Molecular Biotechnology includes four sections with the first three presenting in depth coverage on DNA, RNA, and protein technologies and the fourth highlighting their utility in biotechnology. Recognizing the importance of logical reasoning and experimental verification over direct observation and simple description in biotechnological research and development, the Introduction provides pertinent discussions on key strategies: i.e. be first, be better, and be different; effective thinking: lateral, parallel, causal, reverse, and random; and experimental execution, which have proven invaluable in helping advance research projects, evaluate and prepare research reports, and enhance other scientific endeavors. Key features: Presents state of the art reviews on DNA, RNA, and protein technologies and their biotechnological applications; Discusses key strategies, effective thinking, and experimental execution for scientific research and development; Fills the gap left by detailed, ridden laboratory manuals and insight lacking standard textbooks; Includes expert contributions from international scientists at the forefront of molecular biotechnology research and development. Written by international scientists at the forefront of molecular biotechnology research and development, chapters in this volume cover the histories, principles, and applications of individual techniques, technologies, and constitute stand alone yet interlinked lectures that strive to educate as well as to entertain. Besides providing an informative textbook for tertiary students in molecular biotechnology and related fields, this volume serves as an indispensable roadmap for novice scientists in their efforts to acquire innovative skills and establish solid track records in molecular biotechnology and offers a contemporary reference for scholars, educators, and policymakers wishing to keep in touch with recent developments in molecular biotechnology.

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.

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