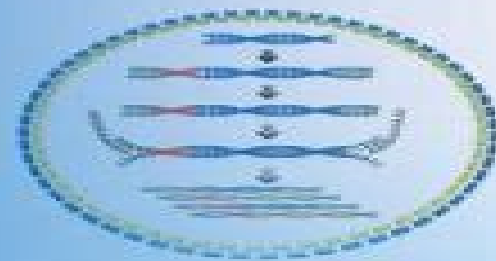


Methods in
Molecular Biology 840

Springer Protocols



Beth Shapiro
Michael Hofreiter *Editors*

Ancient DNA

Methods and Protocols

 Humana Press

Ancient Dna Methods And Protocols Methods In Molecular

John M. S. Bartlett, David Stirling



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

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

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

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

Epigenomics Implication for Economic Traits in Domestic Animals Chunfang

Zhao,Zebin Zhang,Bo Han,Guoqiang Yi,Shenghe Li,Sihua Jin,2023-08-02

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 Applied Uses of Ancient DNA Nic Rawlence,Michael David

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

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

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