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(PDF) Ancient DNA: methods and protocols

Ancient DNA: Methods and Protocols Shapiro, Beth ISBN-13: 9781617795152 Table of Contents Preface B. Shapiro* and M. Hofreiter Â Chapter 1:Â Setting Up An Ancient DNA LaboratoryT. L. Fulton* Â Chapter 2: A Phenol-Chloroform Protocol for Extracting DNA from Ancient Samples R. Barnett* and G. Larson Â Chapter 3: DNA

Ancient DNA: Methods and Protocols

Abstract. Whereas the analysis of ancient DNA (aDNA) has become an increasingly popular mode of investigation in both archaeological and evolutionary studies, this approach is complicated by the degraded nature of ancient nucleic acids, the presence of enzymatic inhibitors in aDNA extracts, as well as the risk of contamination during either excavation or manipulation of samples.

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Methods for the Study of Ancient DNA | SpringerLink

Ancient DNA presents an overview of the many of the protocols commonly used to study ancient DNA. These include laboratory instructions, extraction protocols, laboratory techniques, and suggestions for appropriate analytical approaches to make sense of the sequences obtained.

Ancient DNA: Methods and Protocols by Beth Shapiro (Editor ...

Ancient DNA: Methods and Protocols 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 ...

Ancient DNA: Methods and Protocols | NHBS Academic ...

Several methods for ancient DNA extraction exist, including ethanol or isopropanol precipitation 14, 15, concentration of DNA using membranes 22 and binding DNA to silica 16. Compared to these...

Ancient DNA extraction from bones and teeth | Nature Protocols

The use of high-throughput Next Generation Sequencing (NGS) techniques in the field of ancient DNA research has been essential for reconstructing the genomes of ancient or extinct organisms. A single-stranded DNA (ssDNA) library preparation method has sparked great interest among ancient DNA (aDNA) researchers.

Ancient DNA - Wikipedia

A variety of DNA extraction methods have been employed successfully to extract DNA from museum specimens. Toe pads are a common source of ancient DNA in birds, as they are generally

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not an informative character and can be removed without significant destruction of precious specimens.

Case Study: Recovery of Ancient Nuclear DNA from Toe Pads ...

While this has long been possible for morphological characters, ancient DNA (aDNA) methods are now providing a means to also record genetic changes in real time, at least over short geological time-scales. The initial aDNA publications are just two decades old, and the methods and standards of this new field are still evolving rapidly.

Ancient DNA

Protocols. Ancient DNA (aDNA) Extraction from Bones for PCR (Nucleic Acids Research) A simple and effective modified ethanol precipitation-based protocol is described for the preparation of DNA from ancient human bones. This method is fast and requires neither hazardous chemicals nor special devices.

DNA Extraction & Purification/Ancient DNA (aDNA) ...

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Beth Alison Shapiro (born 1976) is an American evolutionary molecular biologist. She is a Professor in the Department of Ecology & Evolutionary Biology at the University of California, Santa Cruz. Shapiro's work has centered on the analysis of ancient DNA. She was awarded a MacArthur Fellowship (aka "genius grant") in 2009 and a Royal Society University Research Fellowship (URF) in

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