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Ancient DNA : Methods and Protocols 840 (2012, Hardcover ...
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

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Beth Shapiro and Michael Hofreiter (eds.), Ancient DNA: Methods and Protocols , Methods in Molecular Biology, vol. 840, ... University, adhering to strict ancient DNA protocols at all stages.

Chapter 4

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.

Methods for the Study of Ancient DNA | SpringerLink
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Ancient DNA: Methods and Protocols (Methods in Molecular ...
While this has long been possible for morphological characters, ancient DNA (aDNA) methods are now providing a means to also record genetic

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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 - ncbi.nlm.nih.gov

Ancient DNA research really gained momentum following the invention of PCR, which allowed millions of copies to be made of the few remaining DNA molecules preserved in fossils and museum specimens. In Ancient DNA: Methods and Protocols expert researchers in the field describe many of the protocols that are now commonly used to study ancient DNA

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PCR Protocols | ScienceDirect

Here, we present an efficient protocol to extract DNA from formalin-fixed or paraffin-embedded tissues (FFPE). In this protocol, protein-DNA cross-links are reversed using heat and alkali treatment, yielding significantly longer fragments and larger amounts of PCR-amplifiable DNA than standard DNA extraction protocols.

DNA Extraction from Formalin-Fixed Material | SpringerLink

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 2006.

Beth Shapiro - Wikipedia

Ancient DNA (aDNA) is DNA isolated from ancient specimens. Due to

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degradation processes (including cross-linking, deamination and fragmentation) ancient DNA is more degraded in comparison with contemporary genetic material. Even under the best preservation conditions, there is an upper boundary of 0.4-1.5 million years for a sample to contain sufficient DNA for sequencing technologies.

Ancient DNA - Wikipedia

Methods Several kits are currently available, based on, inspired by, or just competing with the protocols we describe here. For example, a number of commercially available kits for DNA extraction from archaeological remains have been introduced, and different cloning systems, combined with various sequencing protocols, have been ...

Protocols for DNA Typing - Academia.dk

ancient DNA studies, both within anthropology and in other fields, lacked rigorous hypothesis testing. However, more recently the true value of ancient DNA studies is being realized, and methods are being applied to a wide variety of anthropological questions. We review the most common methods and applications to date, and describe promising

Ancient DNA in Anthropology: Methods, Applications, and Ethics

all, samples. However, this decrease of contaminant DNA came at a cost,

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as the complexity of endogenous DNA in pretreated libraries was reduced by 63% on average, indicating that bleach Beth Shapiro et al. (eds.), **Ancient DNA: Methods and Protocols, Methods in Molecular Biology, vol. 1963,**

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