

Forensic Wildlife Parts and their Product Identification and Individualization Using DNA Barcoding

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Abstract: Despite very strict wildlife protection acts in several countries and trading laws such as CITES, illegal trading and poaching of wildlife is still active mostly because of the use of their parts in Chinese medicinal products and ornaments. For successfully identifying wildlife and their parts, mitochondrial DNA sequencing is being used now-a-days. DNA bar coding using fragments of cytochrome b and cytochrome oxidase I genes are frequently utilized for mammalian species identification. This mini review describes some of the mtDNA sequences and STR markers used for mammalian species identification in the field of forensic wildlife along with the problems associated and their possible solutions.

Keywords: Cytochrome b, cytochrome oxidase, DNA bar coding, wildlife forensics.

INTRODUCTION

Earth is losing wildlife at an alarming rate and only few new species are being discovered each year. Illegal trade of wildlife parts and their products is worth more than 20 billion per year in black market [1]. In Nepal, every year millions worth of animal parts such as ivory, tiger skin and bone, bear bile, rhino horn and other wildlife materials are illegally transported across the borders mostly via Tibet. This kind of illegal trade creates a serious threat to the global as well as to the local diversity either directly or indirectly. Consequently the role of international organizations such as WWF (World Wildlife Fund), IUCN (International Union for Conservation of Nature) and CITES (Convention on International Trade in Endangered Species of Wild Flora and Fauna) becomes more valuable than ever in protecting wildlife and their habitat. Habitat destruction causes increase of wildlife poaching due to their ever increasing vulnerability of being caught by humans, so that wildlife trade should also be cautiously examined and monitored for any critical illegal transactions [2].

WILDLIFE CONSERVATION

CITES regulates the global trade of wildlife within its 180 signatory countries [3]. It operates by listing wildlife (approximately 5,600 animal and 30,000 plant species are currently listed by CITES) in one of its three appendices (Appendix I, II and III). Since it is a trading treaty, it allows free and controlled trade of wildlife parts and their products from non-endangered wildlife (flora and fauna both), whose survival is not yet threatened but the species registered in Appendix I (620 fauna and 301 flora) [3] are banned from such trade, except for scientific research and other specific purposes. Although CITES is legally binding to the signatory

countries, it does not replace national laws. Problems arise when species of CITES appendix I cannot be verified by the laboratory when confiscated and sent for identification by the forest officers. Most of the time, domestic animal parts are confused with parts from protected and endangered animal species, as it is difficult to identify them through morphological and anatomical studies only. The difficulties that arise after the capture of wildlife parts or their products are: (i) determining the species that was killed with the help of a bloodstain only, (ii) when the sample is in altered or powdered form, (iii) identification up to family of animal but not to the specific species, and (iv) sometimes not even a clue, regarding the wildlife from which the sample originated, can be deciphered from basic morphological or anatomical test procedure [4].

Species identification becomes more problematic because most of the times it's not the whole animal part but rather only a small piece or some modified part such as musk cone, rhino-ceros horn, elephant ivory, elephant tail hair, tiger skin and bone that is traded [1]. This leads to complexity in precisely identifying the concerned protected wildlife species. The suspected animal is then either excluded or not excluded or a family of the animal is discerned for the species but not the species itself. This limitation can be remedied by using molecular tools and techniques for wildlife parts and product identification. Newer techniques such as DNA sequencing can help in identifying the species from which the product originated with great accuracy and reliability.

SPECIES IDENTIFICATION

For the purpose of species identification, although for most of the intact specimens the morphological observations may be enough, but in samples which contain only some part of an animal or their modified products (e.g. powder), DNA based methods are the methods of choice. In the text that follows, we first describe the limitations of conventional

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Forensic DNA Typing: Principles, Applications and Advancements Pankaj Shrivastava, Hirak Ranjan Dash, Jose A. Lorente, Jahangir Imam, 2020-12-11 The book explores the fundamental principles advances in forensic techniques and its application on forensic DNA analysis The book is divided into three modules the first module provides the historical prospect of forensic DNA typing and introduces fundamentals of forensic DNA typing methodology and technical advancements application of STRs and DNA databases for forensic DNA profile analysis Module 2 examines the problems and challenges encountered in extracting DNA and generating DNA profiles It provides information on the methods and the best practices for DNA isolation from forensic biological samples and human remains like ancient DNA DNA typing of skeletal remains and disaster victim identification the importance of DNA typing in human trafficking and various problems associated with capillary electrophoresis Module 3 emphasizes various technologies that are based on SNPs STRs namely Y STR X STR mitochondrial DNA profiling in forensic science Module 4 explores the application of non human forensic DNA typing of domestic animals wildlife forensics plant DNA fingerprinting and microbial forensics The last module discusses new areas and alternative methods in forensic DNA typing including Next Generation Sequencing and its utility in forensic science oral microbes and forensic DNA phenotyping Given its scope the book is a useful resource in the field of DNA fingerprinting for scientists forensic experts and students at the postgraduate level Conservation Genetics in the Neotropics Pedro M. Galetti Jr., 2023-08-29 This book explores how genetics and the new technologies in genomics have been used for conservation of plants and animals in the Neotropics It shows the new perspective for conservation genetics beyond the use of theoretical and methods in genetics at species level and presents how genetics and genomics can be used for assessing communities Conservation genetics and genomics are presented as a helpful field of study for resolving taxonomic uncertainties and hidden biodiversity understanding populations and extinction risk genetic management wildlife forensic genetics assessing biology and molecular ecology assessing communities conservation genomics and the use of conservation biology and genetics in science learning highlighting case studies in the Neotropics Applications of conservation genetics for management or policy decision making planning and implementation of conservation practice in the Neotropics are addressed across chapters This book will interest to researchers and students in conservation genetics and biology conservation interested in the Neotropics Stakeholders and decision makers in conservation biology may also find this book useful , **DNA Fingerprinting: Advancements and Future Endeavors** Hirak Ranjan Dash, Pankaj Shrivastava, Braja Kishore Mohapatra, Surajit Das, 2018-11-01 This book describes the basics and various applications of DNA fingerprinting including in actual case studies The book is divided in four modules Module 1 Basics of DNA Fingerprinting Module 2 Applications of DNA Fingerprinting Module 3 DNA Fingerprinting Case Studies and Module 4 Future of DNA Fingerprinting Each module consists of 4 to 5 chapters written by reputed researchers academics and forensic scientists from around the

globe The respective chapters cover e.g. related fields the tools and techniques used various genotyping kits real world case studies ancient DNA and wild life forensics molecular diagnosis of human diseases legal aspects microbial forensics and the economics of the DNA fingerprinting technique The book offers a practical guide for professionals graduate and post graduate students in the fields of Forensic Science Medicine Genetics Anthropology Microbiology and Zoology It also serves as a useful reference resource summarizing major technological advances in the field of DNA fingerprinting the problems faced in this field of science and possible new solutions to these problems Presently DNA fingerprinting is utilized in solving the majority of criminal cases as such the book is also helpful for investigating agencies as it includes representative case studies

Volume 2: Marine Ecology Juan M. Molina, Gabriela E. Blasina, 2025-04-17 Marine systems face a multitude of anthropogenic stressors such as climate change recreational and commercial fishing aquaculture practices pollution and coastal urbanization These stressors exert escalating pressure on marine ecosystems leading to noticeable changes in habitat conditions as well as alterations in the abundance and diversity of their communities Understanding the impacts of these stressors proves challenging due to their interactions with various factors such as species richness environmental fluctuations system openness stressor tolerance and the occurrence rate and intensity of each stressor Therefore a comprehensive analysis of the entire ecosystem is crucial It is essential to consider the unique characteristics of each marine environment when assessing the cumulative stress that affects them This book provides insights into the functioning of marine ecosystems and their responses to both natural and human induced drivers within the framework of sustainable marine resource utilization This book will make a valuable contribution to the scientific community serving as a resource to inform decision makers and the general public about the current state of knowledge regarding the marine environment and the human footprints on our seas

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Reviewing **Forensic Wildlife Parts And Their Product Identification**: Unlocking the Spellbinding Force of Linguistics

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