

WILDLIFE DNA ANALYSIS

Applications in Forensic Science



Adrian M. T. Linacre | Shanan S. Tobe

WILEY Blackwell

Wildlife Dna Analysis Applications In Forensic Science

**Ettore Randi, Cristiano Tabarroni, Silvia
Rimondi**



Wildlife Dna Analysis Applications In Forensic Science:

Wildlife DNA Analysis Adrian Linacre,Shanan Tobe,2013-03-27 Clearly structured throughout the introduction highlights the different types of crime where these techniques are regularly used This chapter includes a discussion as to who performs forensic wildlife examinations the standardisation and validation of methods and the role of the expert witness in this type of alleged crime This is followed by a detailed section on the science behind DNA typing including the problems in isolating DNA from trace material and subsequent genetic analysis are also covered The book then undertakes a comprehensive review of species testing using DNA including a step by step guide to sequence comparisons A comparison of the different markers used in species testing highlights the criteria for a genetic marker A full set of case histories illustrates the use of the different markers used The book details the use of genetic markers to link two or more hairs feather leaves needles to the same individual organism and the software used in population assignment The problems and possibilities in isolating markers along with the construction of allele databases are discussed in this chapter The book concludes with evaluation and reporting of genetic evidence in wildlife forensic science illustrated by examples of witness statements Wildlife Forensics Jane E. Huffman,John R. Wallace,2012-02-08 Wildlife Forensics Methods and Applications provides an accessible and practical approach to the key areas involved in this developing subject The book contains case studies throughout the text that take the reader from the field to the lab analysis to the court room giving a complete insight into the path of forensic evidence and demonstrating how current techniques can be applied to wildlife forensics The book contains approaches that wildlife forensic investigators and laboratory technicians can employ in investigations and provides the direction and practical advice required by legal and police professionals seeking to gain the evidence needed to prosecute wildlife crimes The book will bring together in one text various aspects of wildlife forensics including statistics toxicology pathology entomology morphological identification and DNA analysis This book will be an invaluable reference and will provide investigators laboratory technicians and students in forensic Science conservation biology classes with practical guidance and best methods for criminal investigations applied to wildlife crime Includes practical techniques that wildlife forensic investigators and laboratory technicians can employ in investigations Includes case studies to illustrate various key methods and applications Brings together diverse areas of forensic science and demonstrates their application specifically to the field of wildlife crime Contains methodology boxes to lead readers through the processes of individual techniques Takes an applied approach to the subject to appeal to both students of the subject and practitioners in the field Includes a broad introduction to what is meant by wildlife crime how to approach a crime scene and collect evidence and includes chapters dedicated to the key techniques utilized in wildlife investigations Includes chapters on wildlife forensic pathology zooanthropological techniques biological trace evidence analysis the importance of bitemark evidence plant and wildlife forensics best practices and law enforcement **Forensic DNA Analysis** Elena Pilli,Andrea Berti,2021-03-30 Forensic DNA

Analysis Technological Development and Innovative Applications provides a fascinating overview of new and innovative technologies and current applications in forensic genetics Edited by two forensic experts with many years of forensic crime experience with the Italian police and with prestigious academic universities the volume takes an interdisciplinary perspective the volume presents an introduction to genome polymorphisms discusses forensic genetic markers presents a variety of new methods and techniques in forensic genetics and looks at a selection of new technological innovations and inventions now available from commercial vendors The book is an important resource for scientists researchers and other experts in the field who will find it of interest for its exhaustive discussion of the most important technological innovations in forensic genetics For those newer to the field the volume will be an invaluable reference guide to the forensic world **A**

Guide to Forensic DNA Profiling Scott Bader,2016-03-21 A Guide to Forensic DNA Profiling A Guide to Forensic DNA Profiling The increasingly arcane world of DNA profiling demands that those requiring to understand at least some of it must find a source of reliable and understandable information Combining material from the successful Wiley Encyclopedia of Forensic Science with newly commissioned and updated material the Editors have used their own extensive experience in criminal casework across the world to compile an informative guide that will provide knowledge and thought provoking articles of interest to anyone involved or interested in the use of DNA in the forensic context Following extensive introductory chapters covering forensic DNA profiling and forensic genetics this comprehensive volume presents a substantial breadth of material covering Fundamental material including sources of DNA validation and accreditation Analysis and interpretation including extraction quantification amplification and interpretation of electropherograms eggs Evaluation including mixtures low template and transfer Applications databases paternity and kinship mitochondrial DNA wildlife DNA single nucleotide polymorphism phenotyping and familial searching Court report writing discovery cross examination and current controversies With contributions from leading experts across the whole gamut of forensic science this volume is intended to be authoritative but not authoritarian informative but comprehensible and comprehensive but concise It will prove to be a valuable addition and a useful resource for scientists lawyers teachers criminologists and judges

Forensic Entomology Jason H. Byrd,Jeffery K. Tomberlin,2019-11-27 Forensic Entomology The Utility of Arthropods in Legal Investigations Third Edition continues in the tradition of the two best selling prior editions and maintains its status as the single most comprehensive book on Forensic Entomology currently available It includes current in the field best practices contributed by top professionals in the field who have advanced it through research and fieldwork over the last several decades The use of entomology in crime scene and forensic investigations has never been more prevalent or useful given the work that can be done with entomological evidence The book recounts briefly the many documented historical applications of forensic entomology over several thousand years Chapters examine the biological foundations of insect biology and scientific underpinnings of forensic entomology the principles that govern utilizing insects in legal and criminal investigations The field

today is diverse both in topics studied researched and practiced as is the field of professionals that has expanded throughout the world to become a vital forensic sub discipline Forensic Entomology Third Edition celebrates this diversity by including several new chapters by premier experts in the field that covers such emerging topics as wildlife forensic entomology microbiomes urban forensic entomology and larval insect identification many of which are covered in depth for the first time The book will be an invaluable reference for investigators legal professionals researchers practicing and aspiring forensic entomologists and for the many students enrolled in forensic science and entomology university programs

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

Investigative and Predictive DNA Testing Hirak Ranjan Dash,2025-11-01 Investigative and Predictive DNA Testing delves into the cutting edge of DNA analysis presenting a comprehensive guide that unlocks the potential of DNA in solving complex cases This book stands as a vital resource for students practitioners and researchers in fields such as biology zoology medicine anthropology microbiology and genetics Designed for those with a basic understanding of biological sciences it is particularly beneficial for graduate post graduate and research level students The book explores the evolution of DNA analysis focusing on predictive methods and investigative leads such as ancestry lineage and phenotype Each chapter contributed by internationally renowned experts highlights the transformative role of artificial intelligence and machine learning in enhancing the accuracy and utility of DNA analysis The book is comprised of various sections starting with fundamental concepts of investigative and predictive DNA analysis followed by technological advancements in the field and concluding with the challenges and future concerns of DNA analysis It serves as an indispensable tool for anyone looking to expand their knowledge and skills in DNA analysis making it

a must read for the scientific community Simplifies complex concepts in DNA analysis making them accessible to readers with a basic biological science background including students and professionals in fields including biology zoology medicine anthropology and microbiology Showcases the integration of AI and machine learning in DNA analysis emphasizing how these technologies enhance accuracy and efficiency Presents information with clarity and precision using visual aids and real time images to facilitate understanding and engagement for readers at various levels of expertise Serves as a comprehensive reference on the technological advancements in DNA fingerprinting and predictive analysis for undergraduate and post graduate students as well as researchers

Advanced Topics in Forensic DNA Typing: Methodology John M. Butler, 2011-07-21 John M Butler [Forensic DNA Applications](#) Dragan Primorac, Moses Schanfield, 2014-01-29 Forensic DNA Applications An Interdisciplinary Perspective was developed as an outgrowth of a conference held by the International Society of Applied Biological Sciences The topic was human genome based applications in forensic science anthropology and individualized medicine Assembling the contributions of contributors from numerous regions a **Handbook of Transnational Environmental Crime** Lorraine Elliott, William H. Schaedla, 2016-07-27 Crimes associated with the illegal trade in wildlife timber and fish stocks pollutants and waste have become increasingly transnational organized and serious They warrant attention because of their environmental consequences their human toll their impacts on the rule of law and good governance and their links with violence corruption and a range of crossover crimes This ground breaking multi disciplinary Handbook brings together leading scholars and practitioners to examine key sectors in transnational environmental crime and to explore its most significant conceptual operational and enforcement challenges **Journal of Forensic Sciences**, 1996 Includes papers read at the Academy's annual meeting previously published separately as Proceedings of the American Academy of Forensic Sciences [Forensic DNA Applications](#) Dragan Primorac, Moses Schanfield, 2014 Forensic DNA Applications An Interdisciplinary Perspective was developed as an outgrowth of a conference held by the International Society of Applied Biological Sciences The topic was human genome based applications in forensic science anthropology and individualized medicine Assembling the contributions of contributors from numerous regions around the world this volume is designed as both a textbook for forensic molecular biology students and a reference for practitioners and those in the legal system The book begins with the history and development of DNA typing and profiling for criminal and civil purposes It discusses the statistical interpretation of results with case examples mitochondrial DNA testing Y single nucleotide polymorphisms SNPs and short tandem repeats STRs and X SNP and STR testing It also explores low copy number DNA typing mixtures and quality assurance and control The second section examines the collection and preservation of biological evidence under a variety of different circumstances and the identification of human remains including in mass disaster settings It discusses applications to bioterrorism investigations animal DNA testing in criminal cases pedigree questions and wildlife forensic problems applications in forensic entomology and forensic botany The third

section explores recent developments and new technologies including the rigorous identification of tissue of origin mtDNA profiling using immobilized probe strips chips and next generation sequencing the use of SNPs to ascertain phenotypic characteristics and the molecular autopsy that looks at aspects of toxicogenetics and pharmacogenetics The book concludes with a discussion on law ethics and policy It examines the use of DNA evidence in the criminal justice system in both the United States and Europe ethical issues in forensic laboratory practices familial searches DNA databases ancestry searches physical phenotyping and report writing The contributors also examine DNA applications in immigration and human trafficking cases and international perspectives on DNA databases

Molecular Ecology and Conservation Genetics of Neotropical Mammals Maximiliano Nardelli, Juan Ignacio Túnez, 2021-04-02 Although all living beings modify their environment human beings have acquired the ability to do so on a superlative space time scale As a result of industrialization and the use of new technologies the anthropogenic impact has been increasing in the last centuries causing reductions in the sizes or the extinction of numerous wild populations In this sense from the field of conservation genetics various efforts have been made in recent decades to provide new knowledge that contributes to the conservation of populations species and habitats In this book we summarize the concrete contributions of researchers to the conservation of the Neotropical mammals using Molecular Ecology techniques The book is divided into three major sections The first section provides an up to date review of the conservation status of Neotropical mammals the applications of the molecular markers in its conservation and the use of non invasive and forensic genetic techniques The second and third sections present respectively a series of case studies in various species or taxonomic groups of Neotropical mammals

A Guide to Forensic DNA Profiling Scott Bader, 2016-03-08 A Guide to Forensic DNA Profiling A Guide to Forensic DNA Profiling The increasingly arcane world of DNA profiling demands that those requiring to understand at least some of it must find a source of reliable and understandable information Combining material from the successful Wiley Encyclopedia of Forensic Science with newly commissioned and updated material the Editors have used their own extensive experience in criminal casework across the world to compile an informative guide that will provide knowledge and thought provoking articles of interest to anyone involved or interested in the use of DNA in the forensic context Following extensive introductory chapters covering forensic DNA profiling and forensic genetics this comprehensive volume presents a substantial breadth of material covering Fundamental material including sources of DNA validation and accreditation Analysis and interpretation including extraction quantification amplification and interpretation of electropherograms epgs Evaluation including mixtures low template and transfer Applications databases paternity and kinship mitochondrial DNA wildlife DNA single nucleotide polymorphism phenotyping and familial searching Court report writing discovery cross examination and current controversies With contributions from leading experts across the whole gamut of forensic science this volume is intended to be authoritative but not authoritarian informative but comprehensible and comprehensive but concise It will prove to be a valuable addition and a

useful resource for scientists lawyers teachers criminologists and judges *Handbook of Forensic Genetics* António Amorim,2016-05 The use of genetics for the resolution of legal conflicts has recently been gaining a higher profile largely as a result of scientific and technological advancements and the substantial broadening of applications The theoretical framework underlying forensic genetics is the same irrespective of the materials and technology involved however a great divide still exists in the manner and processes related to human and non human analyses This advanced handbook intends to overcome the historical barriers between the scientific fields of legal medicine biodiversity and conservation and food analysis by presenting a unifying global perspective on the implications of genetic analyses on forensic affairs This global perspective is presented in three parts modes of inheritance and reproduction and taxonomic implications current technological approaches and future perspectives and a comprehensive systematization of the types of applications and organisms Finally a critical revision of the current investigative expert systems and future perspectives is undertaken This book provides a collection of international research thereby constituting a reference platform for the forensic community and an advanced textbook for graduate students It encompasses the theoretical bases of the field and presents in the context of both perspectives of forensic action probative and investigative a comprehensive coverage of the current applications and technological state of the art **Canadian Society of Forensic Science journal** ,1992 Wildlife Research ,2013

Forensic genetics and the Washington Convention CITES Ettore Randi,Cristiano Tabarroni,Silvia Rimondi,2002

The Ohio State University College of Veterinary Medicine Advances in Veterinary Medicine Ohio State University. College of Veterinary Medicine,2007 *Modern Scientific Evidence* ,2006

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