Guided Inquiry • Forensics Lab

Date

Using DNA to Identify Human Remains

Problem

How can pedigrees help scientists identify human remains?

Introduction

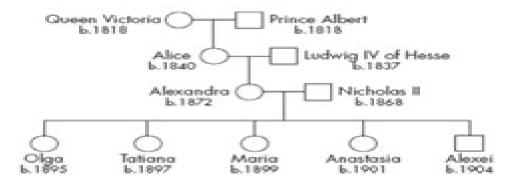
DNA has helped solve countless crimes and some intriguing mysteries—including the fate of the Romanovs. For 300 years the Romanov family raled Russia. The last Romanov ruler was Tsar Nicholas II. His wife, Tsarina Alexandra, was descended from Queen Victoria of England, as shown in Figure 1.

In 1917, revolution swept through Russia. The royal family was captured and held prisoner until they were killed on July 16, 1918. The official report said that all the bodies were burned and then buried in a single grave. However, some witnesses said that one or two of the children were not buried with the others, and for many years there were rumors that Anastasia had survived.

The new government did not allow any research into the fate of the Romanovs. The house in which they were killed was destroyed, and the burial site was kept secret. In 1991, after the breakup of the Soviet Union, scientists were at last allowed to examine the burial site and remove the bones.

In this lab, you will investigate how the scientists classified the skeletons that they found. You will also figure out how pedigrees helped the scientists find living relatives whose DNA could be compared with DNA extracted from the bones.

Figure 1 Simplified pedigree for Tsarina Alexandra



Using Dna To Identify Human Remains Answers

National Institute of Justice (U.S.).
Technical Working Group for Mass
Fatality Forensic Identification

Using Dna To Identify Human Remains Answers:

DNA Analysis for Missing Person Identification in Mass Fatalities Amanda C Sozer, 2014-01-28 Advances in DNA technology have expanded such that forensic DNA profiling is now considered a routine method for identifying victims of mass fatalities Originating from an initiative funded by a grant from the U S Department of State DNA Analysis for Missing Person Identification in Mass Fatalities presents a collection of training modules that supply comprehensive instruction in these complex techniques The book begins with a concise overview of DNA analysis methods and their use in identifying victims of mass fatalities It then goes on to explore Mass fatality response operations including body recovery mortuary operations family assistance the identification of human remains and psychosocial support for families Best practices in DNA sample collection and the different types of reference samples that can be used to identify a reported missing RM individual Autosomal short tandem repeat STR DNA profile analysis and interpretation and procedures to ensure data accuracy Major steps involved in generating a DNA profile and the complex aspects of data analysis and interpretation The importance of data management using information technology tools and tips for maintaining quality operations Accreditation and standards and the major elements of a DNA quality program Setting up a laboratory operation including planning staffing identifying types of equipment and supplies and the procedures for ensuring that laboratory equipment performs appropriately The book includes a discussion of the key steps in the preparation delivery and evaluation of training sessions for personnel responding to a mass fatality human identification event It also provides a comprehensive vocabulary list with terms related to mass fatality DNA identification This text is a must read for organizations contemplating the use of DNA in human identification initiatives following mass fatalities It is also a tremendous value to emergency manager planners medical legal authorities and forensic DNA laboratories Missing Persons and Unidentified Remains ,2007 **NCERT Questions-Answers** ENGLISH LANGUAGE & LITERATURE Class 10th Pushpendra Kaur, 2014-01-01 Keeping in mind the immense importance and significance of the NCERT Textbooks for a student Arihant has come up with a unique book containing only and all Question Answers of NCERT Textbook based questions This book has been designed for the students studying in Class X following the NCERT Textbook of English Language Literature The present book has been divided into two parts according to the syllabi of English Language Literature Term I and Term II further divided into Prose Poetry and Supplementary Reader sections This book has been worked out with an aim of overall development of the students in such a way that it will help students define the way how to write the answers of the textbook based questions This book has answer to each every question covered in the chapters of the textbook for Class X English Language Literature Also each chapter in the book begins with a summary of the chapter which will help in effective understanding of the theme of the chapter and to make sure that the students will be able to answer all popular questions concerned to a particular chapter whether it is Long Answer Type or Short Answer Type Question The book has been designed systematically in the simplest manner for easy

comprehension of the chapters and their themes As the book has been designed strictly according to the NCERT Textbook of English Language Literature for Class X and provides a thorough and complete coverage of the textbook based questions it for sure will help the Class X students in an effective way for English Language Literature **Lessons Learned from 9/11** National Institute of Justice (U.S.), 2006 This report contains the Kinship and Data Analysis Panel's lessons learned particularly regarding DNA protocols laboratory techniques and statistical approaches in the DNA identification of WTC victims It is written primarily for the Nation's forensic laboratory directors and other officials who may be responsible for organizing and managing the DNA identification response to a mass fatality incident National Institute of Justice Journal New Method of Identifying Family Related Skulls Zvonka Zupanic Slavec, 2012-12-06 If DNA cannot be isolated don t give up the identification. The author has used for the same purpose methods ranging from physical anthropology to forensic medicine and especially a recent method of comparison of epigenetic traits which proved to be very useful for the identification of family related skulls in connection with historical and other data The kinship of 18 identified skulls buried together in a family vault is established by comparison of X ray images of paranasal cavities frontal and maxillary sinuses orbital and nasal cavities the shape and size of which are strongly genetically determined The comparison also extends to numerous other epigenetic trait similarities on the skulls It is recommended for scientists working on human identification and studying heredity forensic scientists physical anthropologists radiologists stomatologists paleopathologists geneticists historians and many others Forensic Dental Evidence C. Michael Bowers, 2010-09-14 Forensic Dental Evidence An Investigators Handbook highlights the discussion regarding unjust convictions caused by inaccurate bitemark opinions The book focuses on cases that use forensic techniques emphasizing modern methods and protocols Through this book the latest information available is offered to the forensic community This book demonstrates expertise in forensic dentistry by presenting chapters on human identification in domestic and international situations investigations on missing person and violent crimes against persons mass disaster planning and disaster response and new threats from terrorist attacks on urban centers Furthermore it discusses topics regarding bitemark evidence such as forensic photography analysis and legal issues The book also presents two chapters on new scientific topics The Next Level in Victim Identification Materials Properties as an Aid in Victim Identification and DNA for First Responders Recognizing Collecting and Analyzing Biological Evidence Related to Dentistry chapters 3 and 8 respectively This book is suited to anyone seeking knowledge on forensic dentistry it will be of great value to investigators lawyers medical examiners nurses and dentists with an interest in forensic dental cases Contributions by internationally recognized and experienced forensic experts cover missing persons cases and mass disaster cases from around the world Contains over 200 full color photographs of crime scene evidence human identification cases and bitemark details Includes many new exoneration cases derived from the Editor's work with the Innocence Project Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies Appropriations for Fiscal Year 2000

United States. Congress. Senate. Committee on Appropriations. Subcommittee on Commerce, Justice, State, the Judiciary, The Handy Biology Answer Book Patricia Barnes-Svarney, Thomas E. Svarney, 2014-07-21 and Related Agencies, 1999 Easy to use and friendly guide explains the inner workings of cells bacteria viruses fungi plants animals as well as evolution the environment DNA and chromosomes genetics and genetic engineering laboratory techniques and much much more Gene therapy Forensic DNA profiling Biochemistry Biotechnology Cloning Stem Cells Super Bugs Genetically modified food Botany Zoology Sex The study of life and living organisms is ancient broad and ongoing Biology combines the Greek word for life bios with the suffix ology or science study knowledge of The new completely revised and updated The Handy Biology Answer Book examines explains and traces mankind s understanding of this important topic From the newsworthy to the practical and from the medical to the historical this entertaining and informative book brings the complexity of life into focus through the well researched answers to more than 1 250 common biology questions such as What is life Why do you need protein in your diet Do animals suffer from allergies just like humans What is the Human Genome Project Why do birds fly in formation Can the environment affect genes Do bacteria get addicted to caffeine What was the historical significance of hemp How are seedless grapes grown What is social Darwinism Can animals suffer from psychological disorders The Handy Biology Answer Book has clear concise answers to questions on everything from genetics to the anatomy of cells to the emotional life of elephants and from the environment and ecology to human biology and evolution It's a must have for any student of life With many photos illustrations and other graphics this tome is richly illustrated Its helpful bibliography and extensive index add to The Handy Technology Answer Book Naomi Balaban, James Bobick, 2015-12-21 Technology pervades its usefulness our daily lives and modern society and not just when it comes to computers and smart phones Before there was the computer there was the abacus Before the smart phone there was the telegraph and ball point pen Electricity penicillin and the compass have all led to revolutionary changes in how we live The Handy Technology Answer Book explains how technology has revolutionized the way people live work and play It covers a broad range of fields including medicine mining buildings transportation the military and agriculture and how they have been changed by technology From the relationship between science and technology to nanotechnology robots and predictions for future technology The Handy Technology Answer Book presents the latest and historical in an engaging and informative format It brings well researched answers to more than 1 100 common questions on technology such as What are the major time periods of technology Who is considered to be the first engineer Which individual was granted the most U S patents What is a Uniform Resource Locator or URL What products are made from recycled plastic Can human beings be cloned What is the future of wearable technology in health care

CUET-UG Anthropology [303] Question Bank Book 2500+MCQ Unit Wise with Explanation As Per Updated Syllabus DIWAKAR EDUCATION HUB ,2024-01-14 CUET UG Anthropology Question Bank 2500 Chapter wise question With Explanations As per Updated Syllabus cover all 5 Units The Units are Unit 1 Physical Anthropology Unit 2 Prehistoric

Archaeology Unit 3 Material culture and conomic Anthropology Unit 4 Social Anthropology and Ethnography Unit 5 Ecology Koenig and Schultz's Disaster Medicine Kristi L. Koenig, Carl H. Schultz, 2016-04-18 This is **All Hands** .1993-07 the definitive reference on disaster medicine outlining areas of proficiency for health care professionals handling mass Where'S My Tiffany? Hilary R. Sessions, 2011-02-14 While out exercising the afternoon of February 9 1989 college student Tiffany Sessions disappeared Her mother Hilary frantically tried to find her but after twenty years Tiffany is still missing Wheres My Tiffany is a heartrending glimpse into one mothers struggles to deal with the emotions hardships and grief over the loss of her daughter With intimate detail Sessions reveals how the case unraveled from the first moments of Tiffanys disappearance through the agonizing search for clues and finally to the eventual realization that Tiffany might not come back safely But Sessions also focuses on how she turned her tragedy into a personal victory by never giving up hope Instead of losing to the darkness of despair Sessions sought to help other families of missing children and became a teacher childrens advocate and legislative shepherd She also explores the deeply personal spiritual journey she underwent during the twenty year saga one that made her a stronger more courageous person Brutally honest and deeply moving Wheres My Tiffany offers a rare behind the scenes look at the incredible void left by a missing child Yet it is also a story of hope and comfort for others facing this devastating challenge Implementation of the Crime Victims' Rights Provisions of the Justice for All Act United States. Congress. House. Committee on the Judiciary. Subcommittee on the Constitution, 2006

Journal of the House of Representatives of the United States United States. Congress. House, 1974 Some vols include supplemental journals of such proceedings of the sessions as during the time they were depending were ordered to be kept secret and respecting which the injunction of secrecy was afterwards taken off by the order of the House Fatality Incidents National Institute of Justice (U.S.). Technical Working Group for Mass Fatality Forensic Identification, 2005 In a mass fatality incident correct victim identification is essential to satisfying humanitarian considerations meet civil and criminal investigative needs and identify victim perpetrators. This report provides medical examiners coroners with guidelines for preparing the portion of the disaster plan concerned with victim identification and summarizes the victim identification process for other first responders It discusses the integration of the medical examiner coroner into the initial response process and presents the roles of various forensic disciplines including forensic anthropology radiology odontology fingerprinting and DNA analysis in victim identification This guide represents the experience of dozens of Federal State and private forensic experts who took part in the Technical Working Group for Mass Fatality Forensic Identification **Botany** for NEET and other Medical Entrance Examinations Khwaja Salahuddin, 2020-02-13 The book Botany for NEET and other Medical Entrance Examinations is meant for students who want to compete the medical entrance examinations viz NEET AIIMS and JIPMER This book contains 24 chapters adhering to the latest syllabus of NCERT Each chapter contains short and long answers type questions in the end for the benefit of students preparing for NEET The content is thorough and

comprehensive in each chapter which have limited number of most probable and standard multiple choice questions The language of the book is lucid and is arranged in readable and interesting manner This book will also cater to the needs of all such students who are associated with Botany **Molecular Diagnostics: Promises and Possibilities** Mousumi Debnath, Godavarthi B.K.S. Prasad, Prakash S. Bisen, 2010-01-29 A rapid development in diverse areas of molecular biology and genetic engineering resulted in emergence of variety of tools These tools are not only applicable to basic researches being carried out world over but also exploited for precise detection of abnormal conditions in plants animals and human body Although a basic researcher is well versed with few techniques used by him her in the laboratory they may not be well acquainted with methodologies which can be used to work out some of their own research problems The picture is more blurred when the molecular diagnostic tools are to be used by physicians scientists and technicians working in diagnostic laboratories in hospitals industry and academic institutions Since many of them are not trained in basics of these methods they come across several gray areas in understanding of these tools. The accurate application of molecular diagnostic tools demands in depth understanding of the methodology for precise detection of the abnormal condition of living body To meet the requirements of a good book on molecular diagnostics of students physicians scientists working in agricultural veterinary medical and pharmaceutical sciences it needs to expose the reader lucidly to Give basic science behind commonly used tools in diagnostics Expose the readers to detailed applications of these tools and Make them aware the availability of such diagnostic tools The book will attract additional audience of pathologists medical microbiologists pharmaceutical sciences agricultural scientists and veterinary doctors if the following topics are incorporated at appropriate places in Unit II or separately as a part of Unit III in the book Molecular diagnosis of diseases in agricultural crops Molecular diagnosis of veterinary diseases Molecular epidemiology which helps to differentiate various epidemic strains and sources of disease outbreaks Even in different units of the same hospital the infections could be by different strains of the same species and the information becomes valuable for infection control strategies Drug resistance is a growing problem for bacterial fungal and parasitic microbes and the molecular biology tools can help to detect the drug resistance genes without the cultivation and in vitro sensitivity testing Molecular diagnostics offers faster help in the selection of the proper antibiotic for the treatment of tuberculosis which is a major problem of the in the developing world The conventional culture and drug sensitivity testing of tuberculosis bacilli is laborious and time consuming whereas molecular diagnosis offers rapid drug resistant gene detection even from direct clinical samples The same approach for HIV malaria and many more diseases needs to be considered Molecular diagnostics in the detection of diseases during foetal life is an upcoming area in the foetal medicine in case of genetic abnormalities and infectious like TORCH complex etc The book will be equally useful to students scientists and professionals working in the field of molecular diagnostics NCERT English Class 10 Rajamohan Srivastava, Amit Ganguli, 2025-01-10 Section A First Flight Prose and Poetry FIRST FLIGHT A Prose 1 A LETTER TO GOD G L Fuentes 2

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Table of Contents Using Dna To Identify Human Remains Answers

- 1. Understanding the eBook Using Dna To Identify Human Remains Answers
 - The Rise of Digital Reading Using Dna To Identify Human Remains Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Using Dna To Identify Human Remains Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Using Dna To Identify Human Remains Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Using Dna To Identify Human Remains Answers
 - Personalized Recommendations
 - Using Dna To Identify Human Remains Answers User Reviews and Ratings
 - Using Dna To Identify Human Remains Answers and Bestseller Lists

- 5. Accessing Using Dna To Identify Human Remains Answers Free and Paid eBooks
 - Using Dna To Identify Human Remains Answers Public Domain eBooks
 - Using Dna To Identify Human Remains Answers eBook Subscription Services
 - Using Dna To Identify Human Remains Answers Budget-Friendly Options
- 6. Navigating Using Dna To Identify Human Remains Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Using Dna To Identify Human Remains Answers Compatibility with Devices
 - Using Dna To Identify Human Remains Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Using Dna To Identify Human Remains Answers
 - Highlighting and Note-Taking Using Dna To Identify Human Remains Answers
 - o Interactive Elements Using Dna To Identify Human Remains Answers
- 8. Staying Engaged with Using Dna To Identify Human Remains Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Using Dna To Identify Human Remains Answers
- 9. Balancing eBooks and Physical Books Using Dna To Identify Human Remains Answers
 - ∘ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Using Dna To Identify Human Remains Answers
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Using Dna To Identify Human Remains Answers
 - Setting Reading Goals Using Dna To Identify Human Remains Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Using Dna To Identify Human Remains Answers
 - Fact-Checking eBook Content of Using Dna To Identify Human Remains Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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