Guided Inquiry • Forensics Lab

Date

Using DNA to Identify Human Remains

Problem

How can pedigrees help scientists identify human remains?

Introduction

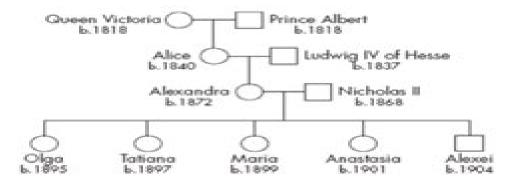
DNA has helped solve countless crimes and some intriguing mysteries—including the fate of the Romanovs. For 300 years the Romanov family raled Russia. The last Romanov ruler was Tsar Nicholas II. His wife, Tsarina Alexandra, was descended from Queen Victoria of England, as shown in Figure 1.

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

Roberto C. Parra, Sara C. Zapico, Douglas H. Ubelaker

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The Handy Biology Answer Book Patricia Barnes-Svarney, Thomas E. Svarney, 2014-07-21 Easy to use and friendly quide 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 its usefulness The Handy Forensic Science Answer Book Patricia Barnes-Svarney, Thomas E. Svarney, 2018-09-01 A practical accessible and informative guide to the science of criminal investigations Covering the fundamentals science history and analysis of clues The Handy Forensic Science Answer Book Reading Clues at the Crime Scene Crime Lab and in Court provides detailed information on crime scene investigations techniques laboratory finding the latest research and controversies It looks at the science of law enforcement how evidence is gathered processed analyzed and viewed in the courtroom and more From the cause manner time of a death and autopsies to blood toxicology DNA typing fingerprints ballistics tool marks tread impressions and trace evidence it takes the reader through the many sides of a death investigation Arson accidents computer crimes criminal profiling and much much more are also addressed The Handy Forensic Science Answer Book gives real world examples and looks at what Hollywood gets right and wrong It provides the history of the science and it introduces the scientists behind breakthroughs An easy to use and informative reference it brings the complexity of a criminal investigation into focus and provides well researched answers to over 950 common questions such as What is the difference between cause of death and manner of death How did a person s skull fit into criminal evidence in the early 1800s When were fingerprints first used to identify a criminal How is the approximate time of death of a crime scene victim determined What is forensic serology What is the National Missing and Unidentified Persons System Can a

forensics expert look at skeletal remains and tell whether the person was obese How can a simple knot analyzed in the crime lab be used as evidence Can fingerprints be permanently changed or destroyed How fast does a bullet travel How was a chemical analysis of ink important in the conviction of Martha Stewart What types of data are often retrieved from a crime scene cellphone Can analyses similar to those used in forensics be used to uncover doping in athletics What is the Personality Assessment Inventory What are some motives that cause an arsonist to start a fire What state no longer allows bite marks as admissible evidence in a trial What is the Innocence Project Why are eyewitness accounts not always reliable Who was Jack the Ripper Providing the facts stats history and science The Handy Forensic Science Answer Book answers intriguing questions about criminal investigations This informative book also includes a helpful bibliography glossary of terms and an extensive index adding to its usefulness 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 **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

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 **All Hands** .1993-07 The Army Lawyer, 2003 comfort for others facing this devastating challenge Clinical **Tuberculosis** Peter D. O. Davies, Stephen B Gordon, Geriant Davies, 2014-04-30 Completely updated and revised Clinical Tuberculosis continues to provide the TB practitioner whether in public health laboratory science or clinical practice with a synoptic and definitive account of the latest methods of diagnosis treatment and control of this challenging and debilitating Clinical Tuberculosis Peter Barnes, Peter D. O. Davies, Stephen disease New in the Fifth Edition Gamma interferon based B Gordon, 2008-04-25 Over three previous editions Clinical Tuberculosis has established itself as an indispensable guide to all aspects of tuberculosis diagnosis and treatment This fully revised and updated fourth edition provides practical guidance to healthcare professionals involved in any aspect of patient management or disease control chapters are included on epidemiology pathology immunology disease presentation diagnosis treatment and management options The problem of TB associated with HIV infection is given special emphasis as are the increasing problems of multi drug resistant strains and

environmentally opportunistic mycobacteria Chapter authors have been hand picked to represent the most up to date thinking in their particular subject areas making Clinical Tuberculosis the essential reference work for the bookshelves of respiratory physicians infectious disease specialists public health workers and other individuals involved in the management Encyclopedia of Forensic and Legal Medicine, 2015-09-29 Encyclopedia of and control of tuberculosis worldwide Forensic and Legal Medicine Volumes 1 4 Second Edition is a pioneering four volume encyclopedia compiled by an international team of forensic specialists who explore the relationship between law medicine and science in the study of forensics This important work includes over three hundred state of the art chapters with articles covering crime solving techniques such as autopsies ballistics fingerprinting hair and fiber analysis and the sophisticated procedures associated with terrorism investigations forensic chemistry DNA and immunoassays Available online and in four printed volumes the encyclopedia is an essential reference for any practitioner in a forensic medical healthcare legal judicial or investigative field looking for easily accessible and authoritative overviews on a wide range of topics Chapters have been arranged in alphabetical order and are written in a clear and concise manner with definitions provided in the case of obscure terms and information supplemented with pictures tables and diagrams Each topic includes cross referencing to related articles and case studies where further explanation is required along with references to external sources for further reading Brings together all appropriate aspects of forensic medicine and legal medicine Contains color figures sample forms and other materials that the reader can adapt for their own practice Also available in an on line version which provides numerous additional reference and research tools additional multimedia and powerful search functions Each topic includes cross referencing to related articles and case studies where further explanation is required along with references to external sources for further reading NCERT English Class 10 Scorer Guru Publications Rajamohan Srivastava, Amit Ganguli, 2024-05-18 Section A First Flight Prose and Poetry FIRST FLIGHT A Prose 1 A LETTER TO GOD G L Fuentes 2 NELSON MANDELA LONG WALK TO FREEDOM Nelson Rolihlahla Mandela 3 TWO STORIES ABOUT FLYING I HIS FIRST FLIGHT Liam O Flaherty II BLACK AEROPLANE Frederick Forsyth 4 FROM THE DIARY OF ANNE FRANK Anne Frank 5 THE HUNDRED DRESSES I El Bsor Ester 6 THE HUNDRED DRESSES II El Bsor Ester 7 GLIMPSES OF INDIA 8 MILBIL THE OTTER Gavin Maxwell 9 MADAM RIDES THE BUS Vallikkannan 10 THE SERMON AT BENARES Betty Renshaw 11 THE PROPOSAL Anton Chekhov FIRST FLIGHT B POETRY 1 DUST OF SNOW Robert Frost 2 FIRE AND ICE Robert Frost 3 A TIGER IN THE ZOO Leslie Morris 4 HOW TO TELL WILD ANIMALS Carolyn Wells 5 THE BALL POEM John Berryman 6 AMANDA Robin Klein 7 ANIMALS Walt Whitman 8 THE TREES Adrienne Rich 9 FOG Carl Sandburg 10 THE TALE OF CUSTARD THE DRAGON Ogden Nash 11 FOR ANNE GREGORY William Butler Yeats Section B Footprints Without Feet Supplementary Reader 1 A TRIUMPH OF SURGERY James Herriot 2 THE THIEF S STORY Ruskin Bond 3 THE MIDNIGHT VISITOR Robert Arthur 4 A QUESTION OF TRUST Victory Canning 5 FOOTPRINTS WITHOUT FEET H G Wells 6 THE

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Unforgettable W. Michael Gray,2016-10-12 We have an uneasy relationship with the relentless deluge of information gushing out of academia and our media outlets To turn it off is escapist but to attempt to cognitively grapple with it is overwhelming In Unforgettable Enabling Deep and Durable Learning a nationally recognized master teacher gives professors and their students the means to chart a clear path through this information explosion Humans crave explanatory patterns and this book enables teachers to think deeply about their academic disciplines to find and articulate their core explanatory principles and to engage their students in a compelling way of thinking An alternative title for this book could be Why the Best College Teachers Do What They Do because the author articulates a compelling rationale that will equip faculty to create and deliver transformative courses Students in transformative courses grapple with essential questions and gain mental muscle that equips them for real world challenges Multidisciplinary Approaches to Forensic Archaeology Pier Matteo Barone, W. J. Mike Groen, 2018-10-24 This book will present the most advanced research on forensic archaeology presented during the annual European meetings in the last 3 years Thanks to the broad nature of the chapters presented this book will show not only different approaches and different crime scenes around Europe but also how every single European law enforcement has faced forensic investigations This book shows forensic archaeology as practiced in this legal context emerging and solidifying in many European countries differing in some respects because of differences in legal systems but

ultimately sharing common grounds Differently from similar books this will be not only a collection of research and case studies in which forensic practitioners demonstrate the extent and complexity of the various aspects of forensic archaeology but also it will show the necessity of cooperation as a condition for any work in forensic archaeology among scientists of different disciplines and law enforcers **Sedona Pack - Books 6-9** Lisa Kessler, 2023-05-09 After the destruction of the Nero Organization the world of shifters struggles to remain hidden from the human world The Sedona Pack is faced with rebuilding and healing old wounds while banding together to fight off roque jaguar assassins bent on revenge But the real enemy could be the American government who stands on the brink of de classifying the controversial Operation Moonlight project and with it bringing shifters into the spotlight not as upstanding citizens but as cold blooded killers A new Alpha will rise from the ashes and the diversity of this Pack may be the only hope against the coming storm Now you can dive into the final 4 books from the Sedona Pack series for a super price Voted 2019 Best Shifter Series Paranormal Romance Guild Set includes Sedona Sacrifice Sedona Suspect Sedona Sanctuary Sedona Salvation Forensic Pathology Max M. Houck, 2016-09-23 Forensic Pathology the latest volume in the Advanced Forensic Science series that grew out of the recommendations from the 2009 NAS Report serves as a graduate level text for those studying and teaching forensic pathology and is an excellent reference for forensic pathologists libraries or for use in their casework Coverage includes postmortem interval autopsy trauma causes of death identification and professional issues Edited by a world renowned leading forensic expert this series provides a long overdue solution for the forensic science community Provides basic principles of forensic science and an overview of forensic pathology Contains sections on postmortem interval autopsy trauma causes of death and identification Includes a section on professional issues such as crime scene to court expert witness testimony health and safety deaths in custody and suicide Incorporates effective pedagogy key terms review questions discussion questions and additional reading suggestions The Use of Forensic Anthropology Robert B. Pickering, David Bachman, 2009-01-22 A forensic investigation requires a team of specialists from many different scientific fields of study along with legal and law enforcement specialists In recent years the range of cases on which forensic anthropologists have been consulted has expanded dramatically The Use of Forensic Anthropology provides these professionals with guidelines fo Investigating Chemistry Matthew Johll, 2006-03-17 Matthew Johll s book introduces students from a non science background to the fundamentals of chemistry through an array of examples and applications from real life crime scenes Sherlock Holmes stories and authentic accounts of drug deals murders and thefts Forensic Science and Humanitarian Action Roberto C. Parra, Sara C. Zapico, Douglas H. Ubelaker, 2020-01-28 Widens traditional concepts of forensic science to include humanitarian social and cultural aspects Using the preservation of the dignity of the deceased as its foundation Forensic Science and Humanitarian Action Interacting with the Dead and the Living is a unique examination of the applications of humanitarian forensic science Spanning two comprehensive volumes the text is sufficiently detailed for forensic practitioners yet accessible enough for non specialists and discusses both the latest technologies and real world interactions Arranged into five sections this book addresses the management of the dead across five major areas in humanitarian forensic science Volume One presents the first three of these areas History Theory Practice and Legal Foundation Basic Forensic Information to Trace Missing Persons and Stable Isotopes Forensics Topics covered include Protection of The Missing and the Dead Under International Law Social Cultural and Religious Factors in Humanitarian Forensic Science Posthumous Dignity and the Importance in Returning Remains of the Deceased The New Disappeared Migration and Forensic Science Stable Isotope Analysis in Forensic Anthropology Volume Two covers two further areas of interest DNA Analysis and the Forensic Identification Process It concludes with a comprehensive set of case studies focused on identifying the deceased and finding missing persons from around the globe including Forensic Human Identification from an Australian Perspective Skeletal Remains and Identification Processing at the FBI Migrant Deaths along the Texas Mexico Border Humanitarian Work in Cyprus by The Committee on Missing Persons CMP Volc n De Fuego Eruption Natural Disaster Response from Guatemala Drawing upon a wide range of contributions from respected academics working in the field Forensic Science and Humanitarian Action is a unique reference for forensic practitioners communities of humanitarian workers human rights defenders and government and non governmental officials Manual of Forensic Odontology Andzrej Huczynski, 2017-11-15 The most exhaustive book on forensic dentistry the fourth edition of this volume covers the latest advances in the field including regulations affecting forensic dental practice and procedures in light of the Health Insurance Portability and Accessibility Act updated ABFO guidelines and new digital radiographic and photographic developments Th

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