

Biological Affinity In Forensic Identification Of Human Skeletal Remains Beyond Black And White

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~~Detecting and denying DNA evidence: a history of forensic identification~~

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~~The Real Science of Forensics~~~~Radioimmunoassay/ RIA~~

~~Forensic DNA Profiling, Part I~~~~Identification | Part 1 | Revision of Forensic Medicine | Target-NBET-PQ-2021 | Dr. Ambuj-Mittal~~ ~~DNA Fingerprinting | Genetics | Biology | FuseSchool~~ ~~Epigenetics in forensics (PhD trial lecture)~~ ~~Forensic Anthropology 2011 : 01 : Concept of \"Race\"~~ ~~Thin-layer chromatography (TLC) principle explained 01~~ ~~Introduction to Forensic Toxicology (CH-06)~~ ~~Introduction to Chemical Biology-128~~ ~~Lecture-06- DNA Reactivity with Small Molecules- Defending Against Biological Terrorism~~ ~~2019-02-27 Ramus Nielsen - Analysis of Ancient Human DNA Dye Analysis Biological Affinity In Forensic Identification~~
Baker, L.E. Identification of Deceased Unauthorized Border Crossers in the U.S. In: Biological Affinity in Forensic Identification of Human Skeletal Remains: Beyond Black and White. 2014. Gregory Berg ...

Lori E. Baker, PhD

The year is 1614, and the Kingdom of Kakheti, a hilly region situated in eastern Georgia, is under the threat of invasion from Shah Abbas I, the Emperor ...

How Indian Scientists Helped Identify a Murdered Georgian Queen 400 Years After Her Death

The global biological ... for disease identification and fuel the trend to provide personalized medication. The biological sample handling addresses various applications such as forensic ...

Global Biological Sample Handling Market (2020 to 2026) - Featuring Alliance Pharma, Abbott Laboratories and Thermo Fisher Scientific Among Others

An ELISA is an immunological assay commonly used to measure antibodies or antigens, including proteins or glycoproteins, in biological samples ... from non-specific binding or cross-reactivity Poor ...

An Introduction to the Enzyme-Linked Immunosorbent Assay - ELISA Test

Cepheid's GeneXpert and SmartCycler extracts and tests DNA and RNA from blood, microbial spores and other biological ... samples for victim identification and forensic DNA profiling.

Go with the microflow

The "Biological ... for disease identification and fuel the trend to provide personalized medication. The biological sample handling addresses various applications such as forensic investigation ...

The Globe and Mail

Unfortunately, efforts to address the health status are often impaired by inability to access biological samples ... adapt a mitogen-based blastogenesis approach that we developed for identification ...

Can Blind Monk Seals Help Us See?

A research team led by Professor Billy K C CHOW from the Research Division for Molecular and Cell Biology ... when allergens bind to the high-affinity IgE receptor on mast cells, whereas the ...

Naturally abundant venom peptide from ants can activate a pseudo allergic pathway unravelling a novel immunomodulatory pathway of MRGPRX2

Moreover, the collection and storage of human biological samples support the R&D industry for disease identification and fuel the trend to provide personalized medication. The biological sample ...

Ancestry determination in the identification of unknown remains can be a challenge for forensic scientists and anthropologists, especially when the remains available for testing are limited. There are various techniques for the assessment of ancestry, ranging from traditional to new microbiological and computer-assisted methods. Biological Affinity in Forensic Identification of Human Skeletal Remains: Beyond Black and White presents a range of tools that can be used to identify the probable socio-cultural "race" category of unknown human remains. Gathering insight from those who have made recent improvements and scientific advances in the field, the book begins with the historical foundations of the concept of biological affinity and the need for increased research into methods for determining ancestry of skeletal remains. The contributors cover a range of topics, including: Ancestry estimation from the skull using morphoscopic and morphometric traits and variables Innovative methods from metric analyses of the postcrania, and new approaches to dental non-metric variation The biological diversity of Hispanic populations and use of discriminant function analysis and 3D-ID software to determine ancestry Methods of age progression and facial reconstructions to create two-dimensional (2D) and three-dimensional (3D) facial composites for missing people The preparation of skeletal remains for DNA extraction and sampling, and mtDNA methods that are available for identification of haplogroups (e.g., ancestral populations) No single method or technique is adequate in the assessment of ancestry. For accurate determinations, the use of traditional and new techniques combined yields better results. This book demonstrates the large repertoire of tools available to those tasked with these challenging determinations.

This robust, dynamic, and international field has grown to include interdisciplinary research, continually improving methodology, and globalization of training. Reflecting the diverse nature of the science from experts who have shaped it, Forensic Anthropology: A Comprehensive Introduction Second Edition builds off of the success of the first edition and incorporates standard practices in addition to cutting-edge approaches in a user-friendly format, making it an ideal introductory-level text.

Osteoarchaeology: A Guide to the Macroscopic Study of Human Skeletal Remains covers the identification of bones and teeth, taphonomy, sex, ancestry assessment, age estimation, the analysis of biodistances, growth patterns and activity markers, and paleopathology. The book aims to familiarize the reader with the main applications of osteoarchaeology and provide the necessary knowledge required for the implementation of a broad range of osteological methods. It is ideal as a complement to existing textbooks used in upper level undergraduate and graduate courses on osteoarchaeology, human osteology, and, to some extent, forensic anthropology. Pedagogical features include ample illustrations, case study material, revision exercises, and a glossary. Additional features comprise macros that facilitate data processing and analysis, as well as an extensive chapter on applied statistics. Contains coverage of nearly every aspect of human osteological macroscopic analysis Presents detailed descriptions of the application of different methods Includes a variety of online resources, including macros designed by the author for the calculation of the number of individuals in commingled assemblages, processing cranial landmarks and nonmetric traits, and more

Biological Distance Analysis: Forensic and Bioarchaeological Perspectives synthesizes research within the realm of biological distance analysis, highlighting current work within the field and discussing future directions. The book is divided into three main sections. The first section clearly outlines datasets and methods within biological distance analysis, beginning with a brief history of the field and how it has progressed to its current state. The second section focuses on approaches using the individual within a forensic context, including ancestry estimation and case studies. The final section concentrates on population-based bioarchaeological approaches, providing key techniques and examples from archaeological samples. The volume also includes an appendix with additional resources available to those interested in biological distance analyses. Defines datasets and how they are used within biodistance analysis Applies methodology to individual and population studies Bridges the sub-fields of forensic anthropology and bioarchaeology Highlights current research and future directions of biological distance analysis Identifies statistical programs and datasets for use in biodistance analysis Contains cases studies and thorough index for those interested in biological distance analyses

Forensic Odontology: Principles and Practice details the aspects necessary to become an accomplished forensic odontologist, including an illustration of the skills necessary to become an expert witness. The book is ideal for both the experienced and novice forensic odontologist, covering many fields of expertise, including civil and criminal matters. The civil side involves standard of care and personal injury matters, while the criminal side involves not only dental identification, but management of mass fatality incidents, age assessment, child and elder abuse, and bitemark analysis. Provides a comprehensive review of forensic odontology, including the skills necessary to become a competent expert witness Covers the fields of forensic odontology, the basic skills, legal aspects, legal precedents, report writing and expert witness testimony Includes numerous illustrations, including charts and graphs, along with B&W and color images

Research Methods in Human Skeletal Biology serves as the one location readers can go to not only learn how to conduct research in general, but how research is specifically conducted within human skeletal biology. It outlines the current types of research being conducted within each sub-specialty of skeletal biology, and gives the reader the tools to set up a research project in skeletal biology. It also suggests several ideas for potential projects. Each chapter has an inclusive bibliography, which can serve as a good jumpstart for project references. Provides a step-by-step guide to conducting research in human skeletal biology Covers diverse topics (sexing, aging, stature and ancestry estimation) and new technologies (histology, medical imaging, and geometric morphometrics) Excellent accompaniment to existing forensic anthropology or osteology works

With contributions from 70 experienced practitioners from around the world, this second edition of the authoritative Handbook of Forensic Archaeology and Anthropology provides a solid foundation in both the practical and ethical components of forensic work. The book weaves together the discipline's historical development; current field methods for analyzing crime, natural disasters, and human atrocities; an array of laboratory techniques; key case studies involving legal, professional, and ethical issues; and ideas about the future of forensic work--all from a global perspective. This fully revised second edition expands the geographic representation of the first edition by including chapters from practitioners in South Africa and Colombia, and adds exciting new chapters on the International Commission on Missing Persons and on forensic work being done to identify victims of the Battle of Fromelles during World War I. The Handbook of Forensic Anthropology and Archaeology provides an updated perspective of the disciplines of forensic archaeology and anthropology.

Through a set of unique case studies written by an international group of practicing forensic anthropologists, Case Studies in Forensic Anthropology: Bonified Skeletons prepares students and professionals for the diverse range of cases and challenges they will encounter in the field. Every forensic anthropology case is unique. Practitioners routinely face new challenges and unexpected outcomes. Courses and introductory texts generally address standard or ideal cases. In practice, however, forensic anthropologists must improvise frequently during forensic archaeological recoveries and laboratory analyses based on case circumstances. Most forensic anthropologists have encountered unconventional cases with surprising results. While these cases act as continuing education for practitioners--better preparing them for future encounters-- such learning opportunities may be limited by the extent of personal experiences. This text exposes practitioners and students to a diverse array of case examples they may not otherwise encounter, sharing experiential knowledge and contributing to the advancement of the field. Case Studies in Forensic Anthropology aims to both prepare aspiring forensic anthropologists and inform current practitioners. The cases are interesting and unique, detailing how specific challenges contribute to the body of forensic anthropological knowledge and practice. Key Features Full-color photographs illustrate the scenes and skeletal features "Lessons Learned" sections for each case study emphasize take-away points Thought-provoking "Discussion Questions" encourage readers to think critically and facilitate group discussions Actual case experiences by diverse array of forensic anthropologists who discuss innovative methods and unique challenges

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) Volcán De Puego 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.

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