

A stylized graphic of a DNA double helix. The top half is yellow and the bottom half is dark grey. The helix is rendered in a dark grey color, with the rungs representing the base pairs. The graphic is positioned diagonally across the frame.

# **The Evaluation of Forensic DNA Evidence**

NATIONAL RESEARCH COUNCIL

# Evaluation Of Forensic Dna Evidence

**United States. Congress. Office of  
Technology Assessment**



## Evaluation Of Forensic Dna Evidence:

*The Evaluation of Forensic DNA Evidence* National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on DNA Forensic Science: An Update, 1997-01-12 In 1992 the National Research Council issued DNA Technology in Forensic Science a book that documented the state of the art in this emerging field Recently this volume was brought to worldwide attention in the murder trial of celebrity O J Simpson The Evaluation of Forensic DNA Evidence reports on developments in population genetics and statistics since the original volume was published The committee comments on statements in the original book that proved controversial or that have been misapplied in the courts This volume offers recommendations for handling DNA samples performing calculations and other aspects of using DNA as a forensic tool modifying some recommendations presented in the 1992 volume The update addresses two major areas Determination of DNA profiles The committee considers how laboratory errors particularly false matches can arise how errors might be reduced and how to take into account the fact that the error rate can never be reduced to zero Interpretation of a finding that the DNA profile of a suspect or victim matches the evidence DNA The committee addresses controversies in population genetics exploring the problems that arise from the mixture of groups and subgroups in the American population and how this substructure can be accounted for in calculating frequencies This volume examines statistical issues in interpreting frequencies as probabilities including adjustments when a suspect is found through a database search The committee includes a detailed discussion of what its recommendations would mean in the courtroom with numerous case citations By resolving several remaining issues in the evaluation of this increasingly important area of forensic evidence this technical update will be important to forensic scientists and population geneticists and helpful to attorneys judges and others who need to understand DNA and the law Anyone working in laboratories and in the courts or anyone studying this issue should own this book [The Evaluation of forensic DNA Evidence](#) Mr. Rohit Manglik, 2024-01-14 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **The Evaluation of Forensic DNA Evidence** National Research Council (U.S.). Committee on DNA Forensic Science: an Update, 1996 **Symposium**, 1997 **Genetic Witness** United States. Congress. Office of Technology Assessment, 1990 **The Evaluation of Forensic DNA Evidence** Committee on DNA Forensic Science: An Update, Commission on Life Sciences, Division on Earth and Life Studies, National Research Council, 1996-12-26 In 1992 the National Research Council issued DNA Technology in Forensic Science a book that documented the state of the art in this emerging field Recently this volume was brought to worldwide attention in the murder trial of celebrity O J Simpson The Evaluation of Forensic DNA Evidence reports on developments in population genetics and statistics since the original volume was published The committee comments on statements in the original book that proved

controversial or that have been misapplied in the courts This volume offers recommendations for handling DNA samples performing calculations and other aspects of using DNA as a forensic tool modifying some recommendations presented in the 1992 volume The update addresses two major areas Determination of DNA profiles The committee considers how laboratory errors particularly false matches can arise how errors might be reduced and how to take into account the fact that the error rate can never be reduced to zero Interpretation of a finding that the DNA profile of a suspect or victim matches the evidence DNA The committee addresses controversies in population genetics exploring the problems that arise from the mixture of groups and subgroups in the American population and how this substructure can be accounted for in calculating frequencies This volume examines statistical issues in interpreting frequencies as probabilities including adjustments when a suspect is found through a database search The committee includes a detailed discussion of what its recommendations would mean in the courtroom with numerous case citations By resolving several remaining issues in the evaluation of this increasingly important area of forensic evidence this technical update will be important to forensic scientists and population geneticists and helpful to attorneys judges and others who need to understand DNA and the law Anyone working in laboratories and in the courts or anyone studying this issue should own this book

*Weight-of-Evidence for Forensic DNA Profiles* David J. Balding, Christopher D. Steele, 2015-07-20 DNA evidence is widely used in the modern justice system Statistical methodology plays a key role in ensuring that this evidence is collected interpreted analysed and presented correctly This book is a guide to assessing DNA evidence and presenting that evidence in a courtroom setting It offers practical guidance to forensic scientists with little dependence on mathematical ability and provides the scientist with the understanding they require to apply the methods in their work Since the publication of the first edition of this book in 2005 there have been many incremental changes and one dramatic change which is the emergence of low template DNA LTDNA profiles This second edition is edited and expanded to cover the basics of LTDNA technology The author s own open source R code likeLTD is described and used for worked examples in the book Commercial and free software are also covered

**Weight-of-Evidence for Forensic DNA Profiles** David J. Balding, 2005-04-08 Assessing Weight of Evidence for DNA Profiles is an excellent introductory text to the use of statistical analysis for assessing DNA evidence It offers practical guidance to forensic scientists with little dependence on mathematical ability as the book includes background information on statistics including likelihood ratios population genetics and courtroom issues The author who is highly experienced in this field has illustrated the book throughout with his own experiences as well as providing a theoretical underpinning to the subject It is an ideal choice for forensic scientists and lawyers as well as statisticians and population geneticists with an interest in forensic science and DNA

**Forensic DNA Evidence Interpretation** Christopher M. Triggs, John S. Buckleton, Simon J. Walsh, 2004-11-29 Forensic DNA Evidence Interpretation is the most comprehensive resource for DNA casework available today Written by leaders in the fields of biology and statistics the book emphasizes the interpretation of

test results and provides the necessary formulae in an easily accessible manner The book begins by reviewing all pertinent biology a Statistics and the Evaluation of Evidence for Forensic Scientists Colin Aitken,Franco Taroni,2004-08-13 The first edition of Statistics and the Evaluation of Evidence for Forensic Scientists established itself as a highly regarded authority on this area Fully revised and updated the second edition provides significant new material on areas of current interest including Glass Interpretation Fibres Interpretation Bayes Nets The title presents comprehensive coverage of the statistical evaluation of forensic evidence It is written with the assumption of a modest mathematical background and is illustrated throughout with up to date examples from a forensic science background The clarity of exposition makes this book ideal for all forensic scientists lawyers and other professionals in related fields interested in the quantitative assessment and evaluation of evidence There can be no doubt that the appreciation of some evidence in a court of law has been greatly enhanced by the sound use of statistical ideas and one can be confident that the next decade will see further developments during which time this book will admirably serve those who have cause to use statistics in forensic science D V Lindley

**DNA Technology in Forensic Science** National Research Council,Division on Earth and Life Studies,Commission on Life Sciences,Committee on DNA Technology in Forensic Science,1992-01-01 Matching DNA samples from crime scenes and suspects is rapidly becoming a key source of evidence for use in our justice system DNA Technology in Forensic Science offers recommendations for resolving crucial questions that are emerging as DNA typing becomes more widespread The volume addresses key issues Quality and reliability in DNA typing including the introduction of new technologies problems of standardization and approaches to certification DNA typing in the courtroom including issues of population genetics levels of understanding among judges and juries and admissibility Societal issues such as privacy of DNA data storage of samples and data and the rights of defendants to quality testing technology Combining this original volume with the new update The Evaluation of Forensic DNA Evidence provides the complete up to date picture of this highly important and visible topic This volume offers important guidance to anyone working with this emerging law enforcement tool policymakers specialists in criminal law forensic scientists geneticists researchers faculty and students Forensic DNA Trace Evidence Interpretation Duncan Taylor,Bas Kokshoorn,2023-05-30 Forensic DNA Trace Evidence Interpretation Activity Level Propositions and Likelihood Ratios provides all foundational information required for a reader to understand the practice of evaluating forensic biology evidence given activity level propositions and to implement the practice into active casework within a forensic institution The book begins by explaining basic concepts and foundational theory pulling together research and studies that have accumulated in forensic journal literature over the last 20 years The book explains the laws of probability showing how they can be used to derive from first principles the likelihood ratio used throughout the book to express the strength of evidence for any evaluation Concepts such as the hierarchy of propositions the difference between experts working in an investigative or evaluative mode and the practice of case assessment and interpretation are explained to

provide the reader with a broad grounding in the topics that are important to understanding evaluation of evidence Activity level evaluations are discussed in relation to biological material transferred from one object to another the ability for biological material to persist on an item for a period of time or through an event the ability to recover the biological material from the object when sampled for forensic testing and the expectations of the prevalence of biological material on objects in our environment These concepts of transfer persistence prevalence and recovery are discussed in detail in addition to the factors that affect each of them The authors go on to explain the evaluation process how to structure case information and formulate propositions This includes how a likelihood ratio formula can be derived to evaluate the forensic findings introducing Bayesian networks and explaining what they represent and how they can be used in evaluations and showing how evaluation can be tested for robustness Using these tools the authors also demonstrate the ways that the methods used in activity level evaluations are applied to questions about body fluids There are also chapters dedicated to reporting of results and implementation of activity level evaluation in a working forensic laboratory Throughout the book four cases are used as examples to demonstrate how to relate the theory to practice and detail how laboratories can integrate and implement activity level evaluation into their active casework

#### **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 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

#### **Interpreting Complex Forensic DNA**

**Evidence** Jane Moira Taupin,2019-11-14 Interpreting Complex Forensic DNA Evidence is a handy guide to recent advances and emerging issues in interpreting complex DNA evidence and profiles for use in criminal investigations In certain cases DNA cannot be connected to a specific biological material such as blood semen or saliva How or when the DNA was

deposited may be an issue The possibility of generating DNA profiles from touched objects where there may not be a visible deposit has expanded the scope and number of exhibits submitted for DNA analysis With such advances and increasing improvements in technological capabilities in testing samples this means it is possible to detect ever smaller amounts of DNA There are also many efforts underway to seek ways to interpret DNA profiles that are sub optimal either relative to the amount required by the testing kit and potentially the quality of the obtained sample Laboratories often use enhancements in order to obtain a readable DNA profile The broad reaching implications of improving DNA sensitivity have led to this next emerging generation of more complex profiles Examples partial profiles that do not faithfully reflect the proposed donor or mixtures of partial DNA from multiple people A complexity threshold has been proposed to limit interpretation of poor quality data Research is now addressing the interpretation of transfer of trace amounts of DNA Complex issues are arising in trial that need to be reconciled as such complexity has added challenges to the interpretation of evidence and its introduction or dismissal in certain cases in the courts Key Features Addresses DNA transfer from person to person as well as to objects Outlines each stage required to produce a DNA profile from an exhibit including collection handling storage and analysis Discusses ethics subjectivity and bias including cognitive dissonance as they relate specifically to complex DNA evidence Highlights current techniques and the latest advances in DNA analysis including advances in familial DNA searches Interpreting Complex Forensic DNA Evidence provides tools to assist the criminal investigator forensic expert and legal professional when posed with a DNA result in a forensic report or testimony The result and any associated statistic may not reveal any ambiguity complexity or the assumptions involved in deriving it Questions from resolved criminal cases are posed and the relevant forensic literature provided for the reader to assess a DNA result and any associated statistic Case studies throughout illustrate concepts and emphasize the need for conclusions in the forensic report that are supported by the data

**An Introduction to Forensic DNA Analysis, Second Edition** Norah Rudin, Keith Inman, 2001-12-21 Significant advances in DNA analysis techniques have surfaced since the 1997 publication of the bestselling *An Introduction to Forensic DNA Analysis* DNA typing has become increasingly automated and miniaturized Also with the advent of Short Tandem Repeat STR technology even the most minute sample of degraded DNA can yield a profile providing valuable case information However just as the judicial system slowly and reluctantly accepted RFLP and AmpliType PM DQA1 typing it is now scrutinizing the admissibility of STRs Acknowledging STR typing as the current system of choice *An Introduction to Forensic DNA Analysis Second Edition* translates new and established concepts into plain English so that laypeople can gain insight into how DNA analysis works from sample collection to interpretation of results In response to the shift toward more efficient techniques the authors cover the legal admissibility of STR typing expand the chapter on DNA databases and revise the section on automated analysis They also present key decisions and appellate or supreme court rulings that provide precedent at the state and federal levels Discussing forensic DNA issues from both a scientific and a legal perspective the authors of *An*

Introduction to Forensic DNA Analysis Second Edition present the material in a manner understandable by professionals in the legal system law enforcement and forensic science They cover general principles in a clear fashion and include a glossary of terms and other useful appendices for easy reference Forensic DNA Analysis Jaiprakash G. Shewale, Ray H.

Liu, 2013-08-19 The field of forensic DNA analysis has grown immensely in the past two decades and genotyping of biological samples is now routinely performed in human identification HID laboratories Application areas include paternity testing forensic casework family lineage studies identification of human remains and DNA databasing Forensic DNA Analysis

**Forensic DNA Trace Evidence Interpretation** Duncan Taylor, Bas Kokshoorn, 2023-05-30 Forensic DNA Trace Evidence Interpretation Activity Level Propositions and Likelihood Ratios provides all foundational information required for a reader to understand the practice of evaluating forensic biology evidence given activity level propositions and to implement the practice into active casework within a forensic institution The book begins by explaining basic concepts and foundational theory pulling together research and studies that have accumulated in forensic journal literature over the last 20 years The book explains the laws of probability showing how they can be used to derive from first principles the likelihood ratio used throughout the book to express the strength of evidence for any evaluation Concepts such as the hierarchy of propositions the difference between experts working in an investigative or evaluative mode and the practice of case assessment and interpretation are explained to provide the reader with a broad grounding in the topics that are important to understanding evaluation of evidence Activity level evaluations are discussed in relation to biological material transferred from one object to another the ability for biological material to persist on an item for a period of time or through an event the ability to recover the biological material from the object when sampled for forensic testing and the expectations of the prevalence of biological material on objects in our environment These concepts of transfer persistence prevalence and recovery are discussed in detail in addition to the factors that affect each of them The authors go on to explain the evaluation process how to structure case information and formulate propositions This includes how a likelihood ratio formula can be derived to evaluate the forensic findings introducing Bayesian networks and explaining what they represent and how they can be used in evaluations and showing how evaluation can be tested for robustness Using these tools the authors also demonstrate the ways that the methods used in activity level evaluations are applied to questions about body fluids There are also chapters dedicated to reporting of results and implementation of activity level evaluation in a working forensic laboratory Throughout the book four cases are used as examples to demonstrate how to relate the theory to practice and detail how laboratories can integrate and implement activity level evaluation into their active casework **Forensic DNA Applications** Dragan Primorac, Moses Schanfield, 2023-04-24 Forensic DNA Applications An Interdisciplinary Perspective Second Edition is fully updated to outline the latest advances in forensic DNA testing techniques and applications It continues to fill the need for a reference book for people working in the field of forensic molecular biology testing and research as well as individuals investigating and

adjudicating cases involving DNA evidence whether they be civil or criminal cases DNA techniques have greatly impacted obvious traditional forensic areas but such advances have also positively affected myriad new areas of research and inquiry It is possible today to think about solving forensic problems that were simply unheard of even a few years ago As such the book pulls all relevant research and applied science together into a detailed and comprehensive collection Part I 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 Part II moves on to cover the various uses and applications of analyzing collected physical evidence victim identification in mass disasters analyzing animal DNA forensic botany and other unique applications Part III is dedicated to the latest advances and developments in human molecular biology and Part IV looks at policies and laws and ethics governing DNA evidence and its utilization in various cases and the courts Forensic DNA Applications Second Edition covers cutting edge research and advancements in the field and is the most up to date reference available Edited and contributed to by the world's foremost leaders in the field it is a must have reference for established professionals and an essential resource to legal professionals lawyers and judges dealing with civil and criminal cases involving DNA technology as well as students entering the fields of genetics and forensic DNA analysis

**Forensic DNA Profiling** Jo-Anne Bright, Michael Coble, 2019-12-09 DNA testing and its forensic analysis are recognized as the gold standard in forensic identification science methods However there is a great need for a hands on step by step guide to teach the forensic DNA community how to interpret DNA mixtures how to assign a likelihood ratio and how to use the subsequent likelihood ratio when reporting interpretation conclusions Forensic DNA Profiling A Practical Guide to Assigning Likelihood Ratios will provide a roadmap for labs all over the world and the next generation of analysts who need this foundational understanding The techniques used in forensic DNA analysis are based upon the accepted principles of molecular biology The interpretation of a good quality DNA profile generated from a crime scene stain from a single source donor provides an unambiguous result when using the most modern forensic DNA methods Unfortunately many crime scene profiles are not single source They are described as mixed since they contain DNA from two or more individuals Interpretation of DNA mixtures represents one of the greatest challenges to the forensic DNA analyst As such the book introduces terms used to describe DNA profiles and profile interpretation Chapters explain DNA extraction methods the polymerase chain reaction PCR capillary electrophoresis CE likelihood ratios LRs and their interpretation and population genetic models including Mendelian inheritance and Hardy Weinberg equilibrium It is important that analysts understand how LRs are generated in a probabilistic framework ideally with an appreciation of both semicontinuous and fully continuous probabilistic approaches

**KEY FEATURES** The first book to focus entirely on DNA mixtures and the complexities involved with interpreting the results Takes a hands on approach offering theory with worked examples and exercises to be

easily understood and implementable by laboratory personnel New methods heretofore unpublished previously provide a means to innovate deconvoluting a mixed DNA profile assign an LR and appropriately report the weight of evidence Includes a chapter on assigning LRs for close relatives i e It s not me it was my brother and discusses strategies for the validation of probabilistic genotyping software Forensic DNA Profiling fills the void for labs unfamiliar with LRs and moving to probabilistic solutions and for labs already familiar with LRs but wishing to understand how they are calculated in more detail The book will be a welcome read for lab professionals and technicians students and legal professionals seeking to understand and apply the techniques covered

Review of the Federal Bureau of Investigation Laboratory's Forensic DNA Case Backlog Glenn A. Fine, 2011-03 Forensic DNA casework testing involves the identification and evaluation of biological evidence using DNA technologies Forensic DNA analysis can be used to implicate or eliminate a suspect solve cases that had previously been thought of as unsolvable link evidence from different crime scenes or aid in the identification of victims The backlog in analyzing convicted offender samples is mainly caused by recent federal legislation that expanded the scope of DNA sample collection from violent convicted federal offenders to include anyone who commits a federal offense as well as non U S citizens who are detained in the U S This review found issues that affect the FBI Lab s ability to reduce the backlog This is a print on demand publication

## Whispering the Secrets of Language: An Mental Journey through **Evaluation Of Forensic Dna Evidence**

In a digitally-driven world wherever monitors reign great and quick transmission drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within phrases frequently get unheard. Yet, nestled within the pages of **Evaluation Of Forensic Dna Evidence** a charming fictional treasure blinking with raw emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this wonderful opus attracts readers on an introspective journey, softly unraveling the veiled truths and profound influence resonating within the very fabric of every word. Within the psychological depths of this emotional review, we shall embark upon a sincere exploration of the book is primary styles, dissect its charming writing design, and yield to the strong resonance it evokes strong within the recesses of readers hearts.

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## **Evaluation Of Forensic Dna Evidence Introduction**

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