

# Forensic Scientist CV Template

- Recording findings, taking photographs and collecting trace evidence from scenes of crimes and accidents
- Determining the best order of examination for the exhibits to obtain biological material for DNA analysis without compromising other evidence types
- Screening of blood, semen, saliva, and other biological material for analysis
- Performing microscopy and chemical analysis on bodily fluid stains
- Producing accurate and concise notes and reports, suitable for use in court
- Justifying findings under cross-examination in courts of law
- Tracking evidence via the LIMS system
- Correctly inputting and extracting data and information from medical databases
- Coordinating with outside agencies on a case-by-case basis
- Researching and developing new techniques
- Performing general quality control duties

Sept 2013 – Dec 2014

Lab Technician

National Health Service

Main duties performed:

- Setting up all equipment required for forensic investigations
- Collecting and analysing samples, including blood and saliva
- Ensuring equipment is sterile for use and in a serviceable condition
- Writing laboratory reports so that experiments could be replicated by other medical professionals when required

## Professional Training and Qualifications

- Professional Member of the Chartered Society of Forensic Sciences - 2016
- Accredited in LabCollector (laboratory management software) – 2014
- Emergency First Aid at Work qualification

## Skills

- ✓ **Forensic Techniques:** I have knowledge and experience of various forensic methods including examination of evidence for hairs, fibres, cellular material and body fluids, including blood, semen and saliva, performing fingerprint analysis, conducting footwear & tire track examination and tracing evidence by performing pattern and fibre analysis.
- ✓ **Problem-solving:** I have achieved a high level of proficiency in dealing with a wide range of marks and traces evidence types; glass, paint, fibres, footwear impression evidence and fire scene investigation.
- ✓ **Attention to detail:** Adept at seeking out the tiniest of clues during investigations, including in outdoor crime scenes which are the most difficult to investigate.
- ✓ **Organisational skills:** Ability to work under pressure, deliver urgent casework on time and prioritise own workload.

## References

*References are available upon request.*

# Forensic Science Profile Template

**Jo-Anne Bright, Michael Coble**

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the authors' names.

## **Forensic Science Profile Template:**

**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 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 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 LR and their interpretation and population genetic models including Mendelian inheritance and Hardy Weinberg equilibrium It is important that analysts understand how LR 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      **Weight-of-Evidence for Forensic DNA Profiles** David J.

Balding,Christopher D. Steele,2015-05-11 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      *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 was 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

**Advanced Topics in Forensic DNA Typing: Interpretation** John M. Butler, 2014-07-28 Advanced Topics in Forensic DNA Typing Interpretation builds upon the previous two editions of John Butler's internationally acclaimed Forensic DNA Typing textbook with forensic DNA analysts as its primary audience Intended as a third edition companion to the Fundamentals of Forensic DNA Typing volume published in 2010 and Advanced Topics in Forensic DNA Typing Methodology published in 2012 this book contains 16 chapters with 4 appendices providing up to date coverage of essential topics in this important field Over 80 % of the content of this book is new compared to previous editions Provides forensic DNA analysts coverage of the crucial topic of DNA mixture interpretation and statistical analysis of DNA evidence Worked mixture examples illustrate the impact of different statistical approaches for reporting results Includes allele frequencies for 24 commonly used autosomal STR loci the revised Quality Assurance Standards which went into effect September 2011 *Canadian Society of Forensic Science journal*, 2000 **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 Science Review**, 2003 *The Forensic Use of Bioinformation* Nuffield Council on Bioethics, 2007 This report considers whether current police powers in the UK to take and retain bioinformation are justified by the need to fight crime The principle of proportionality is used as the basis for a number of recommendations made to policy makers

**Forensic Science Handbook** Richard Saferstein, 2002 The second in a three volume series this popular and widely circulated professional handbook describes the theories and practices of today's criminalistics and covers a wide range of subject areas relevant to the services rendered by crime laboratories and related facilities Presents authoritative reviews from recognized forensic criminologists and forensic scientists well versed in their chosen areas of expertise Considers a specific examination technique for a wide range of evidence prevalent in the modern crime laboratory e.g. DNA hair paint soil glass petroleum products explosives alcohol in blood and breath and questioned documents Describes the theory operation and forensic utilization of such modern analytical instruments as mass spectrometry capillary electrophoresis high performance liquid chromatography and the visible microspectrophotometer Emphasizes the symbiotic

relationship between forensic science and criminal law as it examines the role and conduct of the expert witness rules of evidence and the legal requirements governing the admissibility of scientifically evaluated evidence For professionals in forensic science and criminology     *Encyclopedia of Forensic Sciences* Jay A. Siegel,Pekka J. Saukko,Geoffrey C. Knapfer,2000 Encyclopedia of Forensic Sciences is a comprehensive reference source of current knowledge made available in the field of forensic science Covers the core theories methods and techniques employed by forensic scientists and their application in forensic analysis     **Molecular Forensics** Ralph Rapley,David Whitehouse,2007-05-21 Molecular Forensics offers a comprehensive coverage of the increasingly important role that molecular analysis plays within forensic science Starting with a broad introduction of modern forensic molecular technologies the text covers key issues from the initial scenes of crime sampling to the use of evidential material in the prosecution of legal cases The book also explores the questions raised by the growing debate on the applications of national DNA databases and the resulting challenges of developing maintaining and curating such vast data structures The broader range of applications to non human cases is also discussed as are the statistical pitfalls of using so called unique data such as DNA profiles and the ethical considerations of national DNA databases An invaluable reference for students taking courses within the Forensic and Biomedical sciences and also useful for practitioners in the field looking for a broad overview of the subject Provides a comprehensive overview of modern forensic molecular technologies Explores the growing debate on the applications of national DNA databases Discusses the initial phases of investigation to the conclusion of cases involving molecular forensic analysis

**Encyclopedia of Forensic and Legal Medicine** Roger Byard,Tracey Corey,Carol Henderson,2005-06-10 The Encyclopedia of Forensic Legal Medicine comprehensively covers forensic and legal medicine including related specialities and scientific technical and legal issues and is available online and in three printed volumes offering any practitioner in a forensic medical healthcare legal judicial or investigative field easily accessible and authoritative overviews on a wide range of topics The work is edited and written by experienced professionals with medical legal or dual training and who are internationally renowned for their experience or expertise within their areas of specialty The Editorial Board reflects the multidisciplinary multi jurisdictional and global emphasis of forensic and legal medicine The individual articles are written in a clear and concise manner and are supplemented by diagrams tables and full color images Key further reading and extensive cross referencing make this work an invaluable reference source for undergraduates and graduates looking for an introduction to key fields and experts reading outside their specialization     **Progress in Forensic Genetics** International Society for Forensic Haemogenetics. Congress,2004     **McGraw-Hill Yearbook of Science and Technology** McGraw-Hill,2005-12 From one of the most trusted sources for high quality information authoritative reviews of the most significant recent developments in science and technology Edited and illustrated for clarity and ease of understanding by non specialist and expert alike     Analytical Advances in Forensic Science Katie Maree Horsman,2007     Journal of the Indian

Academy of Forensic Sciences Indian Academy of Forensic Sciences, 1996      Advancing Forensic DNA Profiling Through Microchip Technology Hang Ieng Yeung, 2008      *Criminology, Penology, and Police Science Abstracts*, 1992      *16th Congress of the International Society for Forensic Haemogenetics (Internationale Gesellschaft für forensische Hämo-genetik e.V.), Santiago de Compostela, 12-16 September 1995* Angel Carracedo, Bernd Brinkmann, Walter Bär, 1996 The 6th volume of *Advances in Forensic Haemogenetics* comprises the scientific contributions to the 16th Congress of the International Society for Forensic Haemogenetics ISFH held on Sept 12-16 1995 at Santiago de Compostela Spain. The numerous papers mainly deal with the applicability of DNA technology to forensic questions. The invited speakers approached important topics such as variation of mitochondrial DNA in ancient and modern humans, the STR approach to solve forensic questions, the statistical analysis of STR data, automation of DNA analysis, long PCR and its applications, national DNA databases and ethical and legal aspects of DNA analysis. It has become obvious that PCR-based polymorphic systems clearly dominate the scene of forensic DNA analysis worldwide. It will however be necessary to make efforts to standardize the still increasing number of systems with regard to nomenclature to achieve a universal comparability of results. Legal systems differ from country to country which has to be taken into account when reporting DNA results. There is still controversy about the way DNA results are to be presented in court rooms. We should make efforts to assess the value of DNA evidence by a common scientific statistical approach that is comprehensive enough to treat all possible hypotheses such as involved relatives, different ethnicities and or the not so rare situations with mixed stains.

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Mental Disorders, Fifth Edition (DSM-5), is the 2013 update to the Diagnostic and Statistical Manual of Mental ... Diagnostic and statistical manual of mental disorders: DSM ... The American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders (DSM) is a classification of mental disorders with associated ... Diagnostic and Statistical Manual of Mental Disorders Fifth ... The Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, Text Revision (DSM-5-TR), is the most comprehensive, current, and critical resource ... Diagnostic and Statistical Manual of Mental Disorders (5th ... The American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders" (DSM-5) is used to diagnose and classify mental disorders. Diagnostic and Statistical Manual of Mental Disorders, Text ... The Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, Text Revision (DSM-5-TR), is the most comprehensive, current, and critical ... Understanding mass balance for food compliance Nov 6, 2022 — Mass balance, in relationship to food production, can be defined as being the ability to account for all quantities of raw materials, waste, ... Tolerance on Mass Balance for Recall/withdrawal for BRC Aug 3, 2016 — Tolerance on Mass Balance for Recall/withdrawal for BRC - posted in BRCGS ... For example, if you have used 100 Kg of raw materials and 1000 donut ... BRC Auditing - What To Expect Under Food Issue 8 Oct 17, 2019 — The mass balance is the quantity of incoming raw material against the quantity used in the resulting finished products, taking process waste and ... The Mass Balance Approach in Feedstock Substitution An established method to foster sustainability in existing infrastructure · Benefits of the Mass Balance Approach · Biomass balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. "Material Flow Analysis" or "Substance Flow Analysis." Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every. Clustering | Introduction, Different Methods and Applications Clustering | Introduction, Different Methods and Applications Cluster analysis Cluster analysis or clustering is the task of grouping a set of objects in such a way that objects in the same group (called a cluster) are more similar (in ... What is cluster analysis? Overview and examples Cluster analysis is a statistical method for processing data. It works by organizing items into groups - or clusters - based on how closely associated they are. A Comprehensive Guide to Cluster Analysis Cluster Analysis is a useful tool for identifying patterns and relationships within complex datasets and uses algorithms to group data points into clusters. Cluster Analysis - Methods, Applications, and Algorithms What is cluster analysis? Cluster analysis is a data analysis technique that

explores the naturally occurring groups within a data set known as clusters. What is Cluster Analysis in Marketing? | Adobe Basics Mar 26, 2021 — Cluster analysis in marketing refers to the practice of analyzing shared characteristics between groups and comparing them. Conduct and Interpret a Cluster Analysis The Cluster Analysis is an explorative analysis that tries to identify structures within the data. Cluster analysis is also called segmentation analysis. Cluster Analysis - What Is It and Why Does It Matter? Cluster analysis is the grouping of objects based on their characteristics such that there is high intra-cluster similarity and low inter-cluster ... What is Cluster Analysis? What is Cluster Analysis? • Cluster: a collection of data objects. - Similar to one another within the same cluster. - Dissimilar to the objects in other ... Statistics: 3.1 Cluster Analysis 1 Introduction 2 Approaches to ... Cluster analysis is a multivariate method which aims to classify a sample of subjects (or ob- jects) on the basis of a set of measured variables into a ...