

# Forensic Science

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# Fingerprint Activity

### FINGERPRINT WORKSHEET

Take your fingerprints. Put ink on your fingertips, place your finger tip over the designated squares. Press the left edge of your finger tip down and roll your finger towards the right. (Rolling is essential to get a full fingerprint print instead of a partial.)

Analyze your fingerprints. Identify the ridge patterns and provide a pattern, class, and number with the class. Record the class and number of each fingerprint pattern by the total number of fingers. These ridge characteristics for each of your fingerprints. (Circle or

### FINGERPRINT RIDGE PATTERNS

**Loops**  
60% of prints

**Whorls**  
30% of prints

**Arches**  
10% of prints

Ridge Pattern	Class	Number
Ulnar Loop	u-shape, pointing toward ulna (thumb)	1
Radial Loop	u-shape, pointing toward radius (thumb)	2
Plain Whorl	circular shape	3
Double Loop / S-Wheel	u-shape	4
Central Plain Whorl	concentric shape with center u-shape	5
Revolving Whorl	elliptical shape	6
Arch	ridges go over for ridges	7
Plain Arch	flat shape (pointing)	8

**FINGERPRINT MINUTIAE** (ridge characteristics)

Even though identical twins have the same DNA, they do not have identical fingerprints.

# ridge pattern and minutiae information and worksheet

# Forensic Science Fundamentals And Investigations

## Activity 13 1

**Burkhard Madea**



## **Forensic Science Fundamentals And Investigations Activity 13 1:**

**Forensic DNA Transfer** Jane Moira Taupin, 2023-10-10 Forensic DNA Transfer provides a guide to the recognition and current understanding of DNA transfer in forensic criminal investigations. Increased improvements in technology mean that it is now routinely possible to obtain DNA profiles from non visible deposits. How or when the DNA in question was deposited may be an issue in the context of the case especially if the donor of the DNA is not in dispute. A DNA profile alone cannot reveal when or how that DNA was deposited at a crime scene nor can it reveal the body matter from which it originated. Issues of transfer associated with activities may be debated which the traditional discrimination purpose of DNA profiling cannot address. DNA may be everywhere and anywhere in homes at workplaces during transport and on personal items including clothing. DNA from a person may be on an object they have never contacted or in a room they have never entered. Concepts discussed in the book include non self DNA on hands through day to day activities, the prevalence of background DNA in the environment and perhaps on the exhibit, the persistence of any DNA transferred and that a DNA result will depend on these variables as well as recovery techniques. Since DNA may be transferred to an exhibit a during the commission of a crime b before the crime and or c after the crime through handling examination and testing this book covers various transfer pathways and sources of DNA. Documented cases of inadvertent transfer of DNA resulting in wrongful convictions or the misdirection of criminal investigations are discussed with an emphasis on contamination mitigation throughout the entire process. Forensic DNA Transfer examines the additional complexity resulting from non visible deposits of DNA that impact on sampling and testing regimes. The changing understanding of the composition of purported touch DNA deposits from the skin including extracellular DNA transported via body secretions is described. Further the newer focus on interpreting DNA evidence using activity level propositions and the rationale and associated issues is also discussed.

**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 Practitioner's Guide to the Interpretation of Complex DNA Profiles** Peter Gill, Øyvind Bleka, Oskar Hansson, Corina Benschop, Hinda Haned, 2020-06-10 Over the past twenty years there has been a gradual shift in the way forensic scientists approach the evaluation of DNA profiling evidence that is taken to court Many laboratories are now adopting probabilistic genotyping to interpret complex DNA mixtures However current practice is very diverse where a whole range of technologies are used to interpret DNA profiles and the software approaches advocated are commonly used throughout the world Forensic Practitioner's Guide to the Interpretation of Complex DNA Profiles places the main concepts of DNA profiling into context and fills a niche that is unoccupied in current literature The book begins with an introduction to basic forensic genetics covering a brief historical description of the development and harmonization of STR markers and national DNA databases The laws of statistics are described along with the likelihood ratio based on Hardy Weinberg equilibrium and alternative models considering sub structuring and relatedness The historical development of low template mixture analysis theory and practice is also described so the reader has a full understanding of rationale and progression Evaluation of evidence and statement writing is described in detail along with common pitfalls and their avoidance The authors have been at the forefront of the revolution having made substantial contributions to theory and practice over the past two decades All methods described are open source and freely available supported by sets of test data and links to web sites with further information This book is written primarily for the biologist with little or no statistical training However sufficient information will also be provided for the experienced statistician Consequently the book appeals to a diverse audience Covers short tandem repeat STR analysis including database searching and massive parallel sequencing both STRs and SNPs Encourages dissemination and understanding of probabilistic genotyping by including practical examples of varying complexity Written by authors intimately involved with software development training at international workshops and reporting cases worldwide using the methods described in this book

**The Science of Forensic Entomology** David B. Rivers, Gregory A. Dahlem, 2022-10-03 A thoroughly updated

introduction to forensic entomology In the newly revised second edition of *The Science of Forensic Entomology* two distinguished entomologists deliver a foundational and practical resource that equips students and professionals to be able to understand and resolve questions concerning the presence of specific insects at crime scenes Each chapter in the book addresses a topic that delves into the underlying biological principles and concepts relevant to the insect biology that grounds the use of insects in legal and investigational contexts In addition to non traditional topics including the biology of maggot masses temperature tolerances of necrophagous insects chemical attraction and communication reproductive strategies of necrophagous flies and archaeoentomology the book also offers readers A thorough introduction to the role of forensic science in criminal investigations and the history of forensic entomology Comprehensive discussions of the biology taxonomy and natural history of forensically important insects Fulsome treatments of the postmortem decomposition of human remains and vertebrate carrion In depth introduction to the concepts of accumulated degree days and the use of insect development for estimation of the postmortem interval New chapters dedicated to forensic entomotoxicology aquatic insects in forensic investigations microbiomes of forensic insects and carrion professional standards and case studies Perfect for graduate and advanced undergraduate students in forensic entomology forensic biology and general forensic science *The Science of Forensic Entomology* will also earn a place in the libraries of law enforcement and forensic investigators as well as researchers in forensic entomology

**Fundamentals of Criminal Investigation** Charles E. O'Hara, Gregory L. O'Hara, 1988

*Fundamentals of Analytical Toxicology* Robert J. Flanagan, Eva Cuypers, Hans H. Maurer, Robin Whelpton, 2020-08-03

*Fundamentals of Analytical Toxicology* is an integrated introduction to the analysis of drugs poisons and other foreign compounds in biological and related specimens Assuming only basic knowledge of analytical chemistry this invaluable guide helps trainee analytical toxicologists understand the principles and practical skills involved in detecting identifying and measuring a broad range of compounds in various biological samples Clear easy to read chapters provide detailed information on topics including sample collection and preparation spectrophotometric and luminescence techniques liquid and gas liquid chromatography and mass spectrometry including hyphenated techniques This new edition contains thoroughly revised content that reflects contemporary practices and advances in analytical methods Expanding the scope of the 1995 World Health Organization WHO basic analytical toxicology manual the text includes coverage of separation science essential pharmacokinetics xenobiotic absorption distribution and metabolism clinical toxicological and substance misuse testing therapeutic drug monitoring trace elements and toxic metals analysis and importantly the clinical interpretation of analytical results Written by a prominent team of experienced practitioners this volume Focuses on analytical statistical and pharmacokinetic principles Describes basic methodology including colour tests and immunoassay and enzyme based assays Outlines laboratory operations such as method validation quality assessment staff training and laboratory accreditation Follows IUPAC nomenclature for chemical names and recommended International Non proprietary Name rINN for drugs and

pesticides Includes discussion of designer drugs novel pharmaceutical substances NPS Fundamentals of Analytical Toxicology Clinical and Forensic 2nd Edition is an indispensable resource for advanced students and trainee analytical toxicologists across disciplines such as clinical science analytical chemistry forensic science pathology applied biology food safety and pharmaceutical and pesticide development **Fundamentals of Abnormal Psychology** Ronald J. Comer, 2011 Ronald J Comer clearly integrates theoretical models research findings clinical experiences therapies and controversies within the context of social and cultural influences in this study of abnormal psychology **Nuclear Science Abstracts**, 1973 *Handbook of Forensic Medicine* Burkhard Madea, 2014-03-17 Forensic Medicine encompasses all areas in which medicine and law interact This book covers diverse aspects of forensic medicine including forensic pathology traumatology and violent death sudden and unexpected death clinical forensic medicine toxicology traffic medicine identification haemogenetics and medical law A knowledge of all these subdisciplines is necessary in order to solve routine as well as more unusual cases Taking a comprehensive approach the book moves beyond a focus on forensic pathology to include clinical forensic medicine and forensic toxicology All aspects of forensic medicine are covered to meet the specialist needs of daily casework Aspects of routine analysis and quality control are addressed in each chapter The book provides coverage of the latest developments in forensic molecular biology forensic toxicology molecular pathology and immunohistochemistry A must have reference for every specialist in the field this book is set to become the bench mark for the international forensic medical community **Cumulated Index Medicus**, 1965 *Fundamentals of Human Sexuality* Herant A. Katchadourian, 1989 **American Book Publishing Record**, 2007 **Textbook of Geriatric Dentistry** Poul Holm-Pedersen, Angus W. G. Walls, Jonathan A. Ship, 2015-06-19 Textbook of Geriatric Dentistry Third Edition provides a comprehensive review of the aging process and its relevance to oral health and dentistry Now in full colour this third edition has been fully revised and updated with new material encompassing recent research and clinical developments within geriatric dentistry Written in a clear and accessible style this is an essential guide to geriatric dental practice for undergraduate and postgraduate dentistry students and practicing clinicians alike Key features include Contributions from an international group of expert authors Comprehensive coverage of oral healthcare issues in the older adult from demographics and physiology through to nutrition and pharmacology Provides both foundational knowledge and a guide to clinical management New chapters including material on orofacial pain quality of life and treatment planning *Arthropod Venom Components and Their Potential Usage* Katsuhiro Konno, Gandhi Rádis-Baptista, 2020-03-25 Thousands of arthropod species ranging from arachnids spiders and scorpions to hymenopterans ants bees and wasps and myriapods centipedes are venomous and use their venoms for both defense and predation These venoms are invariably harmful to humans and some may cause serious injuries e.g. those from scorpions spiders and wasps Arthropods venoms are also known as rich sources of biologically active compounds and have attracted the attention of toxin researchers for years In this century venom

component analysis has progressed considerable due to the advances in analytical techniques in particular mass spectrometry and next generation deep DNA and RNA sequencing As such proteomic and peptidomic analyses using LC MS have enabled the full analysis of venom components revealing a variety of novel peptide and protein toxins sequences and scaffolds potentially useful as pharmacological research tools and for the development of highly selective peptide ligands and therapeutic leads like chlorotoxin Due to their specificity for numerous ion channel subtypes including voltage and ligand gated ion channels arthropod neurotoxins have been investigated to dissect and treat neurodegenerative diseases and control epileptic syndromes This Special Issue collects information on such progress encouraging contributions on the chemical and biological characterization of venom components not only peptides and proteins but also small molecules their mechanisms of action and the development of venom derived peptide leads *The Criminal Justice Periodical Index* ,1975

*Расследование преступлений. проблемы и пути их решения. No 1(7)/2015 ,2022-04-26* **Occupational Therapy in Mental Health** Catana Brown, Virginia C Stoffel, Jaime Munoz, 2019-02-05 This revision of a well loved text continues to embrace the confluence of person environment and occupation in mental health as its organizing theoretical model emphasizing the lived experience of mental illness and recovery Rely on this groundbreaking text to guide you through an evidence based approach to helping clients with mental health disorders on their recovery journey by participating in meaningful occupations Understand the recovery process for all areas of their lives physical emotional spiritual and mental and know how to manage co occurring conditions *Ultimate Psychology Collection* Connor Whiteley, The Ultimate Psychology Boxset for A University Student or Psychology professional Contains a wide range of great easy to understand books on everything from biological psychology to clinical psychology to forensic psychology and much more BUY IT NOW *Social Psychology A Guide To Social and Cultural Psychology Third Edition* Do you want to learn why groups behaviour like they do Do you want to learn how our groups influence us Do you want to learn how our culture impacts our behaviour If the answer to any of these questions and more is yes then this is the book for you In this book you ll learn about social and cultural psychology and how this affects our behaviour By the end of this book you ll learn What is social psychology How our culture impacts our behaviour Why groups behave as they do How persuasion works and why it can fail The psychology of aggression And more BUY NOW TO READ ABOUT THIS AMAZING AREA OF PSYCHOLOGY *Cognitive Psychology A Guide to Neuroscience Neuropsychology and Cognitive Psychology Third Edition* Do you want to know how our mental processes impact our behaviour Have you ever wondered about memory works and why is it flawed Do you want to know how we think and what affects our decisions If the answer to any of these questions is yes then this is the book for you By the end of this book you ll learn What is cognitive psychology How memory works What affects our memory How we learn language How technology affects our mental processes And more If you want a great engaging easy to understand book about cognitive psychology You will love this book BUY IT NOW *Biological Psychology* Do you want to know how our biology can impact our

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