



OVERVIEW

Key Concepts of Forensic Science

- Applications of a scientific method, tool, or technique to aid an investigation or judicial proceeding
- Used to support or refute hypotheses about how an event occurred
- Results integrated into the investigation, part of a larger story
- Many subdisciplines

Forensic laboratory



Medical examiner



Characteristics of Forensic Data and Results

- Specific and complete, including caveats or limitations
- Reproducible; another forensic scientist provided with the same evidence and information should obtain the same results
- **Falsifiable**; results must be stated such that they can be tested for accuracy and completeness. A specific DNA profile or a specific blood alcohol measurement is falsifiable because the results can be confirmed by scientific testing
- Relevant to the case at hand. The analysis of a bloodstain sample would be done to obtain the DNA profile; cholesterol level in the blood is irrelevant

Selected Historical Figures

- Alphonse Bertillon (1853–1914; French)
 - Used measurements of physical features for identification called **anthropometry** or **Bertillonage**. Replaced by fingerprinting
- Francis Galton (1822–1911; English)
 - Fingerprints
- Alexander Genter (1883–1968; American)
 - Forensic toxicology. Performed chemical analysis for the New York Office of Chief Medical Examiner (OCME)
- Calvin Goddard (1891–1955; American)
 - Comparison microscopy and firearms
- Hans Gross (1847–1915; Austrian)
 - Coined the term **criminalistics**

- Alice Jefferys (1950–; English)
 - Developed early DNA testing methods
 - First to use DNA typing in a criminal matter (Colin Pitchfork case)
- Paul Kirk (1902–1970; American)
 - Generalist and educator
- Edmond Locard (1877–1966; French)
 - Trace evidence. Opened an early forensic laboratory
 - Credited for Locard's Exchange Principle, paraphrased as "every contact leaves a trace"
- Charles Norris (1867–1935; American)
 - Physician. Early head of the OCME
- Mathieu Orfila (1787–1853; Spanish)
 - Worked in Italy and France. Forensic toxicologist and educator
 - Utilized the Marsh test for arsenic in the LaFarge case
- Bernard Spilsbury (1877–1947; English)
 - Physician and forensic pathologist

Bias and Human Error

- **Bias** can cause results of a forensic analysis to be influenced by factors other than evidence and testing results
- Usually unintended and unconscious
- Can be caused by **contextual information** irrelevant to the case
- **Confirmation bias** can occur if a specific result is anticipated or expected
- Prosecutorial bias/defense bias favors a specific side in the dispute

Interface with the US Legal System

- **US legal system**
 - Legal system designed to settle disputes
- **Adversarial**: based on comparing competing arguments
 - Criminal cases
 - Accused/defendant vs. government (local/state/federal)
 - Prosecution vs. defense
 - **Burden of proof** on prosecution
 - Standard of proof: beyond a reasonable doubt
 - Civil cases
 - Individual vs. individual, corporations, companies, etc.
 - Plaintiff vs. defense

Quality assurance/quality control (QA/QC)

- Practices and procedures used to ensure that forensic data are relevant and trustworthy
- **Cradle-to-grave process**—from evidence creation to final disposition
- Forensic laboratories can be **accredited**
- Analysts may be **certified** in some disciplines

- Burden of proof on prosecution
- Standard of proof: preponderance of evidence
- **Jurisdiction**: the entity empowered to hear a case—local (town, city, county), state, and federal
- Decision rendered by **trier of fact** (judge or jury)
- Relies on precedent—rulings by previous courts

US Rules of Evidence

- Process to allow evidence to be presented in a legal proceeding
- Evidence is admissible if it meets **admissibility standards**
- Applies to forensic results and data
- Admissibility standards vary across jurisdictions
- **Frigo standard**
 - Informally called **general acceptance** admissibility standard
 - 1923 ruling
 - Decision to reject admission of polygraph (lie detector) test
 - Court ruled that to admit new type of test, it must have been accepted within that scientific discipline
- Federal Rules of Evidence
 - Congressionally enacted 1975
 - Frequently updated
 - Applies to federal jurisdictions
 - Adopted by other jurisdictions
 - Guidelines for expert testimony
- **Daubert standard**
 - Informally called **gatekeeper** standard
 - 1993 ruling in civil case
 - Trial judge to make admissibility decision; judge as **gatekeeper**
 - Ruling provided guidelines for making this decision
 - Included general acceptance, validation of method, standards, limitations, and potential errors
 - Part of **Daubert trilogy** of cases
- **Joiner decision**
 - Second of **Daubert trilogy**
 - 1997 ruling in civil case
 - Scientific evidence must be directly relevant
- **Kumho decision**
 - Third case of **Daubert trilogy**
 - 1999 ruling in civil case
 - Extended definition of expert beyond traditional sciences

- Methods executed by **standard operating procedure (SOP)**
- **Traceability**: ability to trace result directly to nationally/internationally accepted standard
- **Control samples** analyzed with evidence
- Results reviewed by colleagues (**peer review**)
- Data reviewed and confirmed

Laboratory accreditation



Analyst certification

Forensic Science Study Guide

Zhe Xu



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FORENSIC SCIENTIST I (TOXICOLOGY) National Learning Corporation, 2019

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information and evidence record keeping and other related areas The Complete Guide to the ABC Molecular Biology Certification Exam Tiffany Roy,Tatum Price,2020-04-03 In 2009 the National Academy of Sciences NAS authored the report Strengthening Forensic Science in the United States A Path Forward In it the Committee expressed the need for accreditation and certification Accreditation long recognized by public labs as an important benchmark in quality was recognized as an important way to standardize laboratories that provide forensic services Certification can play an important role as a method of oversight in the forensic sciences something also recommended by the National Commission on Forensic Science in October 2014 The Complete Guide to the ABC s Molecular Biology is a professional certification examination preparation text for forensic scientists taking the American Board of Criminalistics Examination in Molecular Biology The book serves as a resource for forensic scientists who are facing more and more pressure to become certified to support them in their pursuit of forensic certification In the years since the NAS report was published there has been increased discussion of forensic certification requirements ABC s Molecular Biology exam is a quality certification and learning the concepts for it will invariably help any professional working in the field The book prepares readers in all relevant topic areas including accreditation safety biological screen principles anatomy and cell biology crime scene and evidence handling concepts in genetics biochemistry statistics DNA evidence and DNA testing The book will be particularly helpful for forensic science laboratory technicians police and investigations professionals forensic serology and DNA analysts attorneys and forensic science students This study guide follows the guidelines for the exam and presents all the information necessary to prepare individuals to pass the exam *Gale Researcher Guide for: Overview of Criminal Investigation and Forensic Science* Julie Campbell,2018-08-30 Gale Researcher Guide for Overview of Criminal Investigation and Forensic Science is selected from Gale s academic platform Gale Researcher These study guides provide peer reviewed articles that allow students early success in finding scholarly materials and to gain the confidence and vocabulary needed to pursue deeper research

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