



# Forensic DNA Applications: An Interdisciplinary Perspective

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**Forensic DNA Applications: An Interdisciplinary Perspective** was developed as an outgrowth of a conference held by the International Society of Applied Biological Sciences. The topic was human genome-based applications in forensic science, anthropology, and individualized medicine. Assembling the contributions of contributors from numerous regions around the world, this volume is designed as both a textbook for forensic molecular biology students and a reference for practitioners and those in the legal system.

The book 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.

The second section examines the collection and preservation of biological evidence under a variety of different circumstances and the identification of human remains—including in mass disaster settings. It discusses applications to bioterrorism investigations, animal DNA testing in criminal cases, pedigree questions and wildlife forensic problems, applications in forensic entomology, and forensic botany.

The third section explores recent developments and new technologies, including the rigorous identification of tissue of origin, mtDNA profiling using immobilized probe strips, chips and next-generation sequencing, the use of SNPs to ascertain phenotypic characteristics, and the "molecular autopsy" that looks at aspects of toxicogenetics and pharmacogenetics.

The book concludes with a discussion on law, ethics, and policy. It examines the use of DNA evidence in the criminal justice system in both the United States and Europe, ethical issues

in forensic laboratory practices, familial searches, DNA databases, ancestry searches, physical phenotyping, and report writing. The contributors also examine DNA applications in immigration and human trafficking cases and international perspectives on DNA databases.

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