

1. Record Nr.	UNINA9911020226303321
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Titolo	DNA : forensic and legal applications / / Lawrence Kobilinsky, Thomas F. Liotti, Jamel Oeser-Sweat
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2005
ISBN	9786610346226 9781280346224 1280346221 9780471681908 0471681903 9780471681915 0471681911
Descrizione fisica	1 online resource (392 p.)
Altri autori (Persone)	LiottiThomas F Oeser-SweatJamel
Disciplina	345.73/067
Soggetti	DNA fingerprinting - United States Evidence, Expert - United States Forensic genetics - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 293-294) and index.
Nota di contenuto	DNA: Forensic and Legal Applications; Contents; Foreword; Preface; Acknowledgments; 1. Biochemistry, Genetics, and Replication of DNA; 1.1 Evolution of Identification: From Faces to Fingerprints to DNA; 1.2 DNA and Heredity; 1.2.1 A Look at DNA from the Outside In; 1.2.2 DNA-The Chemistry; 1.2.3 Unique Sequence and Repetitious DNA; 1.3 DNA Replication; 1.3.1 Replication in the Cell; 1.3.2 Cloning (Gene Amplification); 2. Biological Evidence-Science and Criminal Investigation; 2.1 Crime Scene Investigation-Biological Evidence; 2.1.1 Help the Victim; 2.1.2 Protect the Scene 2.1.3 Document the Scene2.1.4 Search the Scene; 2.1.5 Schematic Drawing Showing Location and Photography of Items of Evidence; 2.1.6 Packaging and Preserving Evidence; 2.1.7 Transport to Laboratory; 2.1.8 Sexual Assault Evidence; 2.1.9 Evidence Handling in the Laboratory; 2.1.10 Report Writing; 2.2 Serology; 2.2.1 Blood; 2.2.2

Semen; 2.2.3 Saliva; 2.2.4 Urine; 2.2.5 Hair; 2.3 Chain of Custody; 3. Forensic DNA Analysis Methods; 3.1 Associative Evidence and Polymorphism; 3.2 Restriction Fragment-Length Polymorphism; 3.2.1 Isolation of DNA; 3.2.2 Quantification; 3.2.3 Restriction Enzymes: DNA Scissors; 3.2.4 Gel Electrophoresis; 3.2.5 Southern Blotting; 3.2.6 Hybridization; 3.2.7 Autoradiography and Visualization of DNA Banding Pattern; 3.2.8 Analysis of RFLP Results; 3.2.9 Probe Stripping from Membrane; 3.2.10 Match Criteria; 3.2.11 Statistics and the Product Rule; 3.3 Polymerase Chain Reaction; 3.3.1 Development and Theory; 3.3.2 Isolation of DNA; 3.3.3 Quantification; 3.3.4 Techniques; 3.4 Analysis of Y-Chromosome STRs; 3.4.1 Y-Chromosome Single-Nucleotide Polymorphism Analysis; 3.5 Analysis of Mitochondrial DNA; 3.5.1 The Mitochondrial Genome; 3.5.2 Quantification; 3.5.3 Sequencing; 3.5.4 Interpretation of Sequence Data; 3.5.5 Heteroplasmy; 3.5.6 Statistics; 3.5.7 SNP Analysis of Mitochondrial DNA; 3.6 Problems with PCR; 3.6.1 Contamination; 3.6.2 Degradation; 3.6.3 Sunlight; 3.6.4 Inhibitors; 3.6.5 Allelic Dropout-Null Alleles; 3.6.6 Human Error; 3.7 Underlying Facts and Assumptions in Forensic DNA Testing; 4. Genetics, Statistics, and Databases; 4.1 Human Genetics, Population Genetics, and Statistics; 4.1.1 Power of Forensic DNA Analysis: How Significant Is the Match?; 4.1.2 Genetics and Statistics; 4.1.3 Mendel's Laws of Genetics; 4.1.4 Meiosis; 4.2 Population Genetics; 4.2.1 Hardy-Weinberg Equilibrium; 4.2.2 Subpopulations and Substructure; 4.3 Need for Quality Control and Quality Assurance; 4.4 SWGDAM (Formerly Known as TWGDAM) Standards; 4.5 DNA Advisory Board; 4.6 Mitochondrial DNA and Y-Chromosome STR Analysis and Statistical Calculations; 4.7 Experimental Controls; 4.8 Validation of New DNA Methods; 4.9 Single-Nucleotide Polymorphism Analysis; 4.10 Database Size and Composition; 4.11 DNA Databases; 4.12 Power of Discrimination; 4.13 Mixtures and Statistics; 4.14 Probability of Exclusion; 4.15 Likelihood Ratio (LR); 4.16 Paternity Determinations

Sommario/riassunto

Includes a Foreword by Dr. James D. Watson, the co-discoverer of the DNA double helix, and Dr. Jan A. Witkowski. "From the Foreword by Drs. Watson and Witkowski: 'DNA: Forensic and Legal Applications is a comprehensive and invaluable guide to the field, covering topics ranging from collecting samples in the field to presenting the complex results to a jury. We are sure that it will play its part in promoting this most powerful tool in the forensic scientist's armamentarium.' "DNA: Forensic and Legal Applications covers the technology and laws related to DNA, as well as the use

2. Record Nr.	UNISA996681480003316
Autore	MONETTI, Domenico
Titolo	Parte 2: Champagne e cambiali / Domenico Monetti, Luca Pallanch
Pubbl/distr/stampa	Roma, : Minimum fax, : CSC, 2024
ISBN	978-88-338-9537-6
Descrizione fisica	557 p. : 20 cm
Collana	Minimum fax cinema. Nuova serie ; 32
Altri autori (Persone)	PALLIANCH, Luca
Collocazione	XIII.2. 3176/2
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Dopo Per i soldi e per la gloria, prosegue il racconto del cinema italiano attraverso le voci dei più importanti produttori. Se il primo volume si è concentrato soprattutto sulle grandi dinastie e sulle avventure legate a una stagione irripetibile, tra cinema d'autore, commedia e prodotti pensati per il mercato internazionale, in Champagne e cambiali Monetti e Pallanch orientano la loro ricerca sulle figure che hanno vissuto in prima persona il passaggio dal cinema in sala all'home video e alla distribuzione televisiva. Tra storie avvincenti e aneddoti spesso esilaranti, scorre davanti ai nostri occhi il ritratto collettivo di uno straordinario gruppo di sognatori e avventurieri che hanno tentato, con esiti alterni ma con lo stesso ammirevole coraggio, di trasformare la crisi di un'industria e di un modello di produzione culturale in una nuova opportunità. Fino a scalare Hollywood, dialogare con i grandi studios americani e concretizzare il sogno di un cinema europeo, in grado di parlare a diversi tipi di pubblico, e a paesi e culture differenti.