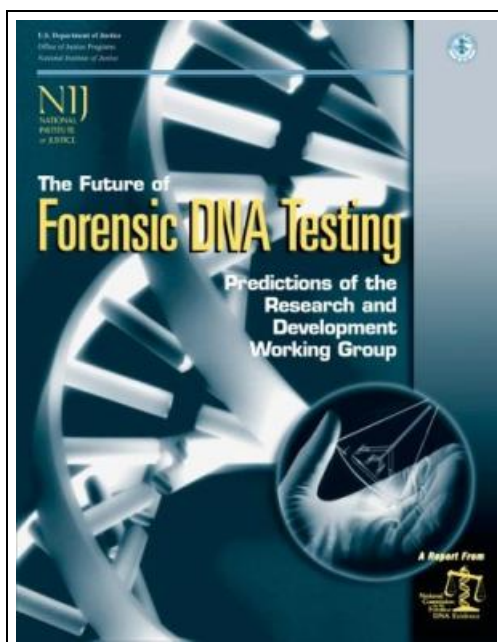


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(Prof. Ernestine Emard)

THE FUTURE OF FORENSIC DNA TESTING: PREDICTIONS OF THE RESEARCH AND DEVELOPMENT WORKING GROUP



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Createspace, United States, 2012. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.The principal assignment given to the Research and Development Working Group was to identify the technical advances in the forthcoming decade and to assess the expected impact of these on forensic DNA (deoxyribonucleic acid) analysis. Progress in forensic analysis was slow until recently, but since 1985 more powerful techniques have increased explosively. The first useful marker system, the ABO blood groups, was discovered in 1900. The second, the MN groups, came a quarter century later. By the 1960s, there were 17 blood group systems known, but not all were useful for forensics, and in the 1970s a few serum proteins and enzymes were added. By the 1980s, some 100 protein polymorphisms were known but most were not generally useful for forensics. The year 1985 brought a major breakthrough. VNTRs (variable number of tandem repeats) showed much greater variability among people than previous systems and immediately began to be used for forensic studies. They are still used, but are rapidly being replaced by STRs (short tandem repeats). We can also expect improvements in collection and purification techniques. Automation will make the process more efficient and rapid, and we expect interpretative software for analysis of complex problems, such as mixtures. There also is progress toward miniaturization, using a combination of chip technology and molecular genetics. Portable, handheld systems are now working in laboratory experiments; how soon these will be available for routine use is not clear. We also expect an increasing amount of re-examination of cases in which the conviction was based on evidence other than DNA. Greater automation and higher throughput approaches will help reduce the backlog. Formats that can analyze multiple STR loci in miniaturized, mobile instruments are...



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