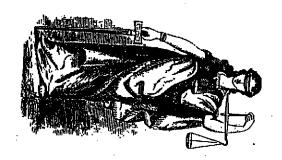
CONTINUING LEGAL EDUCATION Winter 2011

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Chief Medical Examiner and Emerging Legal DNA Issues The "Ins and Outs" of New York City Office of

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Current and Emerging DNA Legal Issues

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legal topics. an educated attorney is certainly more than capable of handling these complex forensic testimonial practices. Attorneys today must keep pace with advances in forensic DNA testing and database as well as how judicial decisions impact long-standing evidentiary These emerging DNA legal issues are certainly challenging, but

familial searching and access-to-offender-database requests. obligations, as well as emerging DNA-related legal issues such as partial matching, This lecture will address legal aspects of traditional DNA related issues such as discovery

keeping pace with and addressing these scientific changes testing, expansion of traditional offender database searches, and how the legal system is At the conclusion of this lecture, participants will be aware of advances in forensic DNA

THE NATIONAL ACADEMY OF SCIENCES REPORT

individualization (more commonly known as matching of an unknown item of evidence) to a specific known source." National Academy of Sciences report. the capacity and with a high degree of certainty, support conclusions about "No forensic method other than nuclear DNA analysis has been rigorously shown to have

forensic science, engineering, medicine, and the law) who, during a two year period, received testimony, reviewed materials, and scrutinized 'the state of forensic science' in independent committee of diverse individuals (experts and practitioners in the fields of Community at the National Academy of Sciences released a report entitled Strengthening In February 2009, the Committee on Identifying the Needs of the Forensic Sciences the United States. Forensic Science in the United States: A Path Forward. The report was prepared by an

practice, and matters of the law. issues related to forensic science and practice, questions of oversight of the science and scientific working groups, and a paucity of research. crime laboratories, subjective interpretations, exaggerated testimony, the coroner system, The committee tried to address such wide ranging topics as inconsistent practices in The NAS report brings together

recommendations: critique of the many disciplines of forensic science and proffered the following thirteen The 'NAS Report' (as it is colloquially called) offered a wide ranging assessment and

- _ accreditation of forensic science laboratories and mandatory independent federal entity, the National Institute of Forensic Science, which will forensic scientists. establish and multidisciplinary research and practice, promote the development of forensic science into a mature enforce best practices, establish Congress should establish and fund an standards certification of for mandatory
- N used in reporting of results of forensic science testing The Forensic Science community should establish standard terminology ಠ ğ
- ယ Congress should appropriate funding to support research development quantifiable measures of uncertainty in conclusions of forensic analysis measure the reliability and accuracy of forensic analysis and to develop
- 4 control of law enforcement agencies or prosecutors' offices All public forensic laboratories should be removed from the administrative
- S observer bias, sources of human error in forensic examination, and effects of Congress should appropriate funding to support research studies contextual bias in forensic practice. on
- 9 in forensic science, and establish protocols for forensic examinations, methods measurement, validation, reliability, information sharing and proficiency testing and practices Forensic Science community needs ð develop tools for advancing
- :~ Mandate laboratory accreditation and individual certification of forensic science professionals
- ∞ reliability of standard operating procedures and protocols; ensure best practices designed to identify mistakes, fraud and bias; confirm continued validity and The Forensic Science community must establish quality control procedures
- 9. and enforced A national code of ethics for all forensic science disciplines should be established
- 10. Improve and develop graduate studies in multidisciplinary fields (physical and life sciences) critical to forensic science practice.
- 11. Improve medicolegal death investigations by:
- а Appropriating funds to establish medical examiner systems, with the goal of eliminating existing coroner systems.

- Ġ pathology Appropriating resources to support education, training and research in forensic
- 0 death investigation; develop and promote standards for best practices. Establishing a Scientific Working Group for forensic pathology and medicolegal
- d. Mandating all medical examiner offices be accredited
- O Restricting federal funding to accredited medical examiner offices
- f certified forensic pathologist. Requiring that all medicolegal autopsies be performed or supervised by a board-
- 7 (quantitation of error rate). fingerprint images and interoperability. Develop standards for communicating image and data among Fund and launch broad-based effort to achieve nationwide fingerprint data [Automated Fingerprint Identification System]. Develop standards to be with computer algorithms to map, record and recognize features in fund research into accuracy of these algorithms
- 00 counterterrorism organizations. including interoperability exercises between local forensic personnel and federal investigators for potential role in managing events affecting homeland security -Provide funding (to CDC and FBI) to prepare forensic scientists and crime scene

pattern interpretation (i.e., tool mark, bite mark, shoe print, fingerprint impressions science disciplines, the report strongly criticizes the forensic science disciplines of challenges within the forensic science community. The significance of the NAS report is its attempt to address (and redress) significant Tackling a broad range of forensic

certification, as well as encourage research to better evaluate the accuracy of forensic The NAS report explores the need to standardize requirements of accreditation and

http://www.nap.edu/catalog.php?record_id=12589 executive summary of the NAS report is available to download for free

IMPACT OF DNA LEGISLATION

ordered CODIS uploads or comparisons? Collaterally, what impact does proposed DNA databases to include persons arrested for violent felony offenses? conviction DNA testing to individuals who have pled guilty? legislation have on prosecutors and public defenders? Elimination of locally-maintained DNA database? What impact does proposed DNA legislation have on a public forensic laboratory? Evidence Preservation? Expansion of entitlement to post-Expansion of offender Court-

convicted offender spent years searching for original crime scene evidence. may be a result of or reaction to, the number of DNA-based exonerations wherein a public forensic laboratories. time that forensic evidence or samples be retained by investigating agencies or increase in legislative initiatives designed to create a statutory minimum period of In the last few years, on both a national and individual state level, there has been an Preservation and retention of crime scene evidence

A public forensic laboratory would certainly be impacted by a requirement to preserve evidence for a certain period of time; in the case of a DNA laboratory, this forensic testing is concluded. physical items of evidence to the custody of the investigating police department after would most likely mean DNA extracts and cuttings as many laboratories return

such databases." conducted "in a manner consistent with federal and state laws and regulations governing risk being directed to perform database searches which may otherwise be impermissible. databases. From the perspective of a CODIS-participating forensic laboratory, legislation must include language that such court-ordered databank searches be a Court to order comparisons of crime scene DNA profiles to the local, state and national Another 'topic' of legislative discussion is the proposal that a defendant be entitled to ask In the absence of such language, CODIS-participating laboratories

DISCOVERY OBLIGATIONS AND PARAMETERS

office or local prosecutor office. Therefore, how a public forensic laboratory handles discovery requests from attorneys involved in a criminal investigation or prosecution a law enforcement agency or prosecutor's office, then the laboratory would not be may be important to know. For example, if a forensic laboratory operates independent of law enforcement, and consequently operate independent of a police department, sheriff 'subject to', nor obliged to adhere to the parameters of a discovery statute. Many public forensic DNA laboratories do not fall within the administrative auspices of

or data: protocols or manuals applicable to the testing performed, the analysts' may request that a forensic laboratory produce any of the following additional documents of the software utilized in the forensic testing process, certificates of accreditation, etc. description of the analysts who performed forensic testing, electronic or raw data, a list curriculum vitae, the analysts' proficiency test results, the tasks and standards or job Beyond the report and case file generated contemporaneous to DNA testing, an attorney

by a forensic laboratory, a prosecutor and defense attorney may want to asses: In assessing a demand for materials in the possession of or relating to testing performed

whether documents or data requested by a defendant fall within the applicable discovery statutes; scope

- **:**: whether it is proper for a defendant in a criminal proceeding to use a subpoena duces tecum to circumvent the limitations of the discovery statute;
- iii. whether the defendant has established factual predicate for the issuance of subpoena duces tecum;
- 7 if the materials sought by the defendant constitute relevant (and possibly exculpatory) material.

PROTECTIVE ORDERS

laboratory practice (e.g., refrain from entering defendant's known DNA profile into a locally-maintained DNA database. defendant's known DNA sample to specific case evidence) or to deviate from a standard forensic laboratory to limit the scope of forensic testing (e.g., to strictly compare a On occasion, commonly at the request of a defendant, a Court may direct a public

telephone call), as well as in a timely fashion. forensic laboratory in an appropriate manner (i.e., via a Court Order, not simply a Prosecutors and defense attorneys must ensure that such protections are conveyed to the It is imperative that the local forensic laboratory be notified of the Court's direction.

directed, the laborator,' will ask that the Order be amended or clarified. misunderstanding (by the Courts or the requesting attorney) of the various DNA the defendant's swab into the state or federal database") is typically the result of a databases and/or the type of forensic analysis performed by the local public forensic A Protective Order which is poorly worded (e.g., "the laboratory is directed not to enter If a Court's Order is not clear to the public forensic laboratory to whom it is

SPEEDY TRIAL

depending on by an individual jurisdictions' criminal procedure law excludable time, in the context of a prosecutor's speedy trial statutory obligation, The time period it takes to perform forensic DNA testing may be chargeable or

independent from law enforcement or a prosecutor's office, this may impact whether the prosecutor's office, the prosecutor may be held to keep 'closer watch' or track of DNA if a forensic laboratory is under the administrative auspices of law enforcement or a DNA testing in a criminal case is 'under the control' of the prosecutor's office. Meaning, time period in which DNA testing is performed is chargeable or excludable. One important factor to keep in mind is whether the forensic laboratory which performed On the other hand, if the forensic laboratory performing DNA analysis operates

DNA testing may be excludable, in calculating the 'speedy trial clock' if the prosecutor

assigned case detective or prosecutors) and the forensic analysts who are performing or supervising testing of a specific case practice of many public forensic laboratories to keep 'case contacts' of communications question then is how does the prosecutor demonstrate this due diligence? has exercised due diligence in tracking the testing process and obtaining results. The between the parties who are investigating or prosecuting a criminal case (i.e., the

LOW TEMPLATE DNA

DNA, or 'Touch' DNA) allows a DNA profile to be developed from smaller amounts of Low Template testing (sometimes also referred to as Low Copy DNA, High Sensitivity

the number of times the extracted DNA is amplified. testing, with slight modifications to increase the sensitivity of the testing process. High Copy and Low Template DNA analysis differ only in the amount of DNA amplified and Low template DNA testing uses the same procedures as traditional ("High Copy") DNA

quantitation, amplification, and electrophoresis. In simple terms, there are four basic steps in the DNA testing process: extraction

chemicals remove the DNA from the sample by isolating the DNA from the rest of the material. The extracted DNA is then purified. Quantitation is next. In extraction, chemicals are added to the evidence sample to be analyzed.

High Copy DNA analysis may be performed. If quantitation yields less than 20 pg/ul (or 100pg or less in the amplification), then Low Template DNA analysis may be utilized. During quantitation, the amount and quality of the DNA that was extracted is determined If quantitation yields 20 pg/ul or more (or more than 100pg in the amplification), then Amplification is next.

device that cycles it through successive temperature plateaus. During this process, the DNA repeatedly copies itself, or "amplifies." contains taq polymerase enzyme and DNA primers (short synthetic pieces of DNA that match defined locations of base pairings). This 'mixture' is then placed in a heating developed. During amplification, the extracted DNA is added to a mixture which amount of a sample is copied in sufficient quantities so that a DNA profile can be Amplification is often described as "molecular xeroxing": a process during which a small

additional cycles of amplification. is amplified in exactly the same way as traditional DNA analysis, but with three is repeated 31 times. process is repeated 28 times. In Low Template DNA analysis, the amplification process With Low Template analysis, in order to increase the sensitivity of the process, the DNA In High Copy DNA analysis, the amplification

results and is therefore admissible at trial. The Court also ruled Low Template DNA testing as performed by the New York City Office of Chief Medical Examiner is not a accepted as reliable in the forensic scientific community, consistently yields reliable novel scientific procedure within the scope of the FRYE doctrine performed by the New York City Office of Chief Medical Examiner is generally DNA experts testified, a New York City Court ruled that Low Template DNA testing as In February 2010, at the conclusion of a FRYE hearing, where a total of seven forensic

IS A DNA REPORT 'TESTIMONIAL' IN A <u>CRAWFORD</u> ANALYSIS

focus shifted to whether or not the proposed evidence is "testimonial." was whether there were "circumstantial guarantees of reliability." testimonial statement is unavailable and the defendant had a prior opportunity to crosswhich are "testimonial" in nature are prohibited unless the witness who made such landscape of a defendant's Sixth Amendment right to confrontation with respect to hearsay evidence. In this 2004 decision, the Court ruled that out-of-court statements hearsay evidence. examine him/her. The Crawford decision triggered a significant shift in the analysis of The United States Supreme Court's decision in Crawford v. Washington altered the Before Crawford, the key issue in the evaluation of hearsay evidence After Crawford, the

in a <u>Crawford</u> analysis: Factors that may be relevant in determining whether a DNA report is testimonial

- Whether the agency that produced the record is independent of law enforcement
- 7 Whether the document reflects objective facts at the time of their recording
- ω Whether the report has been biased in favor of law enforcement
- 4 Whether the report accuses the defendant by directly linking him or her to the

analysis), since they are merely contemporaneous recordings of a testing process Many courts have held that DNA reports are not "testimonial" (under the Crawford

the accused in the absence of an expert's opinion that the results genetically match a from a machine that conducts forensic testing is not 'testimonial' Courts have reasoned that raw data in the form of non-identifying graphical information known sample Moreover, graphical DNA test results, standing alone, shed no light on the guilt of in any meaningful

MELENDEZ DIAZ

the live testimony of the analyst who performed the testing when the prosecutor submitted results of forensic analysis though an affidavit and not by Court ruled it was a violation of the defendant's Sixth Amendment right of confrontation In Melendez-Diaz v. Massachusetts, 129 S.Ct. 2527 (2009), the United States Supreme

asserting that the Supreme Court decision in Crawford v. Washington required that the with Massachusetts law. Defendant Melendez-Diaz objected to their admission and admitted the certificates as evidence of the conclusions of the forensic testing. forensic analyst testify in person as to the results. The trial court overruled the objection, well as the weight of the narcotics. memorialized the results of forensic analysis: that the substance was in fact cocaine, as At trial, the prosecutor had introduced into evidence three 'certificates of analysis' which The certificates were also notarized in accordance

Sixth Amendment right of confrontation was violated. not afford defendant Melendez-Diaz the opportunity to confront the forensic analyst, his a witness for purposes of the Confrontation clause. Therefore, because the trial court did and therefore were the functionally equivalent to live, in-court direct testimony. The were prepared (while contemporaneous to the testing) for a possible, later criminal trial -Court consequently ruled that the forensic analyst who tested the narcotic substance was The Supreme Court held that the certificates constituted testimonial evidence in that they

Significantly, the Court held that that it was not ruling that anyone who's testimony may the testing device, must appear in person as part of the prosecution's case. be relevant in establishing the chain of custody, authenticity of the sample, or accuracy of

routine, objective cataloging the results of routine tests. search for evidence in anticipation of prosecution or trial. Rather, their data entries are a Laboratory technicians are not engaged in a law enforcement function - meaning, a

the defendant objects) be introduced live. Additionally, documents prepared in the rather than its admissibility. It is up to the prosecution to decide what steps in the chain must be called. Gaps in the chain of custody normally go to the weight of the evidence the chain of custody, this does not mean that everyone who laid hands on the evidence as part of the prosecution's case. While it is the obligation of the prosecution to establish custody, authenticity of a sample, or accuracy of a testing device, must appear in person regular course of equipment maintenance may well qualify as nontestimonial records of custody are so crucial as to require evidence; but what testimony is introduced must (if is not the case, that anyone whose testimony may be relevant in establishing the chain of For confrontation clause purposes, the United States Supreme Court has not held, and it

right of confrontation in part because the confrontation clause imposes a burden on the whether pursuant to state law or the compulsory process clause, is no substitute for the defendant's ability to subpoena analysts of evidence incriminating the accused,

prosecution to present its witnesses, not on the defendant to bring those adverse witnesses into court.

the very least the analyst who actually conducted the tests? Or is it the province of the described in the statements. testimony of a supervisor or other person who did not perform the laboratory analysis introduce testimonial statements of a non-testifying forensic analyst through the in-court prosecutor to choose how to present and prove scientific results, as long as the choice emerging In the wake of the United States Supreme Court's decision in Melendez-Diaz, ar features a live witness? question is whether the Confrontation Clause permits the prosecution to Does the defendant have a constitutional right to confront at

concerning cause and manner death, etc. limited merely to DNA forensic analysts, but also to medical examiners who testify This particular issue will be the subject of many appeals and decisions to come - not

PARTIAL MATCHING & FAMILIAL SEARCHING

and a known offender's DNA profile. databank search indicates a possible familial association between a forensic DNA profile A 'partial match' occurs or reveals itself in the 'CODIS candidate match stage' - where a

profile, it is critical to understand that the offender is *not* the source of the crime scene profile. Meaning, the offender is excluded as the source of the crime scene profile. relationship may exist between the partial-matching offender and the perpetrator. the offender might be the actual source of the crime scene profile. However, with a 'partial match', a possibility may exist that a close biological relative of When a 'partial match' occurs between a forensic DNA profile and an offender DNA A potential familial

biological relative who may be the source of the crime scene profile. an offender - excluded as the source of a crime scene profile - who may have a close When a 'partial match' is detected, the question becomes whether to release the name of

database searched, the lower the probability of finding false positive partial matches. offender database searched, the greater number of 'false positives.' individuals who fortuitously share at least one allele at all loci increases. The larger the database searched. The number of 'false positive partial matches' is influenced by the size of the offender familial lead Conversely, the smaller the database searched, the greater the likelihood of finding a true As offender DNA databases get larger, the number of unrelated The smaller the

of the known offenders whose DNA profiles are on file in the national DNA index. parents, siblings (who may be the true source of a forensic DNA profile) of the millions Familial searching is a means to attempt to identify and locate the biological children,

offenders as an investigative tool to investigate their close familial relatives. of candidate profiles that appear to be genetically similar, and then use the list of known purposefully compared against an offender databank within the intent of generating a list Familial searching is a 'database trolling technique' whereby a crime scene profile is

familial searching and may erode judicial confidence in the constitutionality of offender caution that offender databases were never originally intended to be used to conduct surveillance - where offenders unwittingly become genetic informants. Opponents of Partial Matching and Familial Searching argue this creates lifelong genetic Opponents also

In 2006, the FBI requested the Scientific Working Group on DNA Analysis Methods (SWGDAM) to explore this phenomenon of partial matches and to make should be handled. recommendations about how these CODIS searches which result in partial matches

formalized an approved partial match policy. New York State is poised to join Colorado and California as states which have

DATABANK ACCESS

"Your honor, the principal witness my client is a computer database."

number of pairs of individuals within the offender database who 'match' each other at 9 alternate suspects by studying the actual incidences of coincidental matches (e.g., the database in an effort to challenge the reliability of a match, or 'unearth' the existence of An emerging DNA legal issue is the request by a defendant to access a State's offender or 10 loci).

or the number of pairs of offenders who match at 10 loci. share a high number of shared loci, a question is whether a Court may order a State to run release of full genetic DNA profiles of offenders who (due to genetics or fortuitousness) a search of its offender database for the number of pairs of offenders who match at 9 loci While it may be highly doubtful that a Court would have the authority to order the

the general population versus a random match probability within the offender database utilized in determining the DNA rarity of a DNA profile: a random match probability in These requests for database searches are aimed at challenging the statistical calculations

CASE LAW REFERENCES

DNA-based Prosecutions

reasonable doubt; conviction reversed; indictment dismissed). innocent inferences and is insufficient to sustain conviction of burglary beyond a butt found outside house, albeit near hatchet and shattered glass doors, is subject to People v. Person, 74 AD3d 1239 (2d Dept June 22, 2010)(defendant's DNA on cigarette

sustain indictment). DNA recovered from a screwdriver found near the cash box) is legally sufficient to burglary(only evidence linking defendant to theft of money from locked cash box was People v. Goodman, J. Dwyer, Kings County Supreme Court, decided September 16, 2010 (circumstantial evidence of defendant's identity as perpetrator of commercial

Complex Discovery Request

not discoverable under CPL 240.20) (defense request for electronic data associated with DNA testing denied; information is People v. Heyward, J. Zweibel, New York County Supreme Court, decided July 6, 2010

provided no legal authority in support of proposition that these demands are within the (defense request for electronic data associated with DNA testing denied; defendant has scope of CPL 240.20) People v. Sandy, J. Griffin, Queens County Supreme Court, decided September 14, 2010

Motion to Compel Defendant to Provide Exemplar for DNA comparison

indication that requested buccal swab would yield material evidence; motion to compel have demonstrated probable cause to believe defendant committed a crime and clear People v. Jones, J. Dwyer, Kings County Supreme Court, decided July 27, 2010 (People

Motion for Protective Order

entering his profile into local DNA databank) denied). compare defendant's known DNA profile to specific case evidence and to refrain from People v. Noel, J. Walsh, Kings County Supreme Court, decided December 9, 2009 (defendant's motion for protective order (that forensic laboratory be directed to strictly

entering his profile into local DNA databank) denied). compare defendant's known DNA profile to specific case evidence and to refrain from (defendant's motion for protective order (that forensic laboratory be directed to strictly People v. Zelaya, J. Mullen, Kings County Supreme Court, decided January 14, 2008)

speedy 1 riai

as a delay occasioned by exceptional circumstances). (time period necessary to obtain the results of DNA testing in a rape case was excludable People v. Robinson, 47 AD3d 847 (2d Dept 2008), Iv denied 10 NY3d 869 (2008)

necessary to obtain DNA results constitutes "exceptional circumstances, and is therefore excludable time). 2007(defendant's motion to dismiss on speedy trial grounds is denied; time period Bell, J. Scherer, New York County Supreme Court, decided July 26,

17, 2010)(defendant's motion to dismiss on speedy trial grounds is granted) People v. Smith and Rogers, J. Ward, New York County Supreme Court, decided June

18, 2010 (defendant's motion to dismiss on speedy trial grounds is granted). 51477U, 244 N.Y.L.J. 38, J. Ward, New York County Supreme Court, decided August People v. Ellison and Hadaway, 2010 N.Y. Misc. LEXIS 3882, 2010 NY Slip Op

Sixth Amendment: Right of Confrontation

through the testimony of supervising analyst). People v. Brown, 13 N.Y.3d 332 (2010)(records of a contract laboratory admissible

Confrontation Clause claims relating to DNA test documents). Campbell, 62 AD3d 535 (1st Dept 2009)(Court rejects defendant's

to confrontation under Crawford as the report did not constitute a testimonial statement). laboratory analyst who did not testify at trial did not violate his Sixth Amendment right admission into evidence of a laboratory report containing DNA profile data prepared by a People v. Palmer, 65 A.D.3d 1389 (2nd Dept 2009)(1v denied, 14 N.Y.3d 891, 2010)(

a well-recognized scientific test). records are a contemporaneous recording of procedures employed and state the results of People v. Meekins, 10 NY3d 136 (2008)(DNA data generated is not testimonial; DNA

People v. Freycinet, 11 NY3d 38 (2008) (non-testifying ME's findings admissible)

term is used in Crawford). United States v. Erbo, 2006 US Dist Lexis 5244 (autopsy reports not testimonial as that

John Doe Indictment

indictment). People v. Martinez, 52 AD3d 83 $(1^{st}$ Dept 2008)(court upholds John Doe DNA

Low Template DNA

Slip Op 20037; 2010 NY Misc LEXIS 223 People v. Megnath, Supreme Court of the State of New York, Queens County, 2010 NY

procedure within the scope of the FRYE doctrine) scientific community and is not a novel scientific City Office of Chief Medical Examiner is generally accepted as reliable in the forensic February 8, 2010, decided. (Low Template DNA testing as performed by the New York

<u>People v. Tribble</u>, J. Barrett, Bronx County Supreme Court, decided June 3, 2010 (defendant's motion for a FRYE hearing denied).

June 8, 2010 (defendant's motion for a FRYE hearing denied). People v. Atkins and Cherry, J. Carruthers, New York County Supreme Court, decided

Statistical Analysis of DNA results

People v. Bell, 299 AD2d 557 (2d Dept. November 2002)(court rejects defendant's analysis). contention that DNA evidence should not have been admitted without statistical

Post Conviction DNA Testing

explicit requirement for obtaining post conviction DNA testing; this relief unavailable to defendant because of his guilty plea). People v. Byrdsong, 33 AD 3d 175 (2d Dept. August 2006), lv denied 7 NY3d 900 (2006)(pursuant to statutory language, conviction by verdict and judgment after trial is

post conviction testing Liability for administrative or investigative role in submitting DNA evidence for

enjoy absolute immunity where testing undertaken in connection with post-trial proceedings, and therefore integral to the advocacy function). Warney v. Monroe County, 587 F3d 113 (2d Cir. 2009)(court holds that prosecutors

of sperm on a rape kit slide did not violate the defendant's constitutional rights, even lacked any alternative biological evidence which could rule him out as the rapist). though the test rendered the slide useless for serological analysis and the defendant Colon v. Kuhlmann, 865 F.2d 20 (2d Cir. 1988) (a police laboratory test for the presence

Recommended DNA Resources:

important role DNA plays in forensic science; introduce the steps involved in forensic understanding of the National DNA database system. DNA testing using NIJ-sponsored online course is to provide 'students' with an understanding of the Testing, delivered at no cost by the Forensic Training Network. The National Institute of Justice has an online course Essential Aspects of Forensic DNA the latest methods and technologies; and provide a The main goal of this

The President's DNA Initiative: Includes information on forensic DNA and its uses, case

studies, statutes and case law

Denver District Attorney's Office resource page: Includes rulings, statistics, forensic DNA articles, and good links

studies of note American Society of Law, Medicine and Ethics DNA Fingerprinting and Civil Liberties Project: Includes presentations, reports, summaries of important legislation, cases and