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Making Sense of DNA Backlogs, 2010 — Myths vs. Reality

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Making Sense of DNA Backlogs, 2010 — Myths vs. Reality

by Mark Nelson



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About This Report

Federal funding made available by the National Institute of Justice (NIJ) through the DNA Initiative helped state and local governments significantly increase the capacity of their DNA laboratories between 2005 and 2009. At the same time, the demand for DNA testing continues to outstrip the capacity of crime laboratories to process these cases.

The bottom line: crime laboratories are processing more cases than ever before, but their expanded capacity has not been able to meet the increased demand.

Definitions of backlogs

There is no industrywide agreement about what constitutes a backlog; NIJ defines a backlogged case as one that has not been tested 30 days after submission to the crime laboratory. Many crime laboratories, however, consider a case backlogged if the final report has not been provided to the agency that submitted the case. Which definition one uses naturally affects the count of cases backlogged.

In addition to the definition of a backlog, identifying the type of backlog is also important. This report reviews the two types of DNA backlogs found in crime laboratories: those of forensic evidence (also called backlog of DNA cases) and the backlog of DNA samples taken from convicted offenders and/or arrestees pursuant to state statutes. This report also reviews untested forensic DNA evidence in storage in law enforcement agencies.

Nailing down exact numbers of backlogged cases is complicated by the dynamic nature of the business. Backlogs are not static. In many laboratories, new DNA submissions come in at a rate faster than case reports go out. This means that the backlog of cases pending analysis will increase. This does not mean that older cases will not be tested. Laboratories generally require more serious cases to be worked first, and the oldest cases in a backlog to be addressed before newer ones.

Why demand is increasing

The demand for DNA testing is rising primarily because of increased awareness of the potential for DNA evidence to help solve cases. The demand is coming from two primary sources: (1) the increased amount of DNA evidence that is collected in criminal cases and (2) the expanded effort to collect DNA samples from convicted felons and arrested persons.

All states and the federal government have laws that require collecting DNA from convicted offenders. The federal government also requires collecting DNA from arrestees, and there is a growing trend among states to pass legislation to collect DNA samples from arrestees.

Using federal funds to reduce backlogs

Federal funds have been used to purchase automated workstations and high-throughput instruments, hire new personnel and validate more efficient procedures. Without this funding, the backlog picture would be much worse.

NIJ has several programs to help laboratories address their workload. Some programs address overall DNA backlog reduction; others are specifically for testing samples from convicted offenders and arrestees. Some funds are used by laboratories for in-house processing of



cases. Other funds are used by laboratories to outsource the work. NIJ also funds basic research and development to enhance testing processes.

Until laboratories can meet the rising demand for DNA services and until their capacity to process samples is greater than the demand, backlogs will continue to exist and increase in proportion to the demand for services.

Making Sense of DNA Backlogs, 2010 — Myths vs. Reality

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We have all seen the headlines: thousands of rape kits in law enforcement agencies are untested; crime laboratories that have substantial backlogs of DNA cases waiting to be analyzed.

Delays in submitting evidence to a forensic laboratory as well as delays in analyzing the evidence result in delays in justice. In worst-case situations, delays can result in additional victimization by serial offenders or in the incarceration of individuals who have not committed the crime they are accused of or charged with.

Policymakers ask why DNA backlogs persist even after the federal government has provided hundreds of millions of dollars to eliminate the backlog. This is a fair question; to answer it requires understanding both what a backlog is and how backlogs can be reduced. This report addresses that question and the answers to it.

DNA backlog reduction issues are a function of supply and demand.

What is — and is not — a backlogged case?

There is no industrywide definition of a backlog. Some laboratories consider a case backlogged if the DNA has not been analyzed in 90 days. Others consider a case backlogged when the DNA has not been analyzed and the final report has not been sent to the agency that originally submitted the DNA. The National Institute of Justice (NIJ) defines a backlogged case as one that has not been tested 30 days after it was submitted to the laboratory.

Crime laboratories have two kinds of DNA backlogs, and each has its own particular issues:

- 1. Casework backlogs. This type of backlog consists of forensic evidence collected from crime scenes, victims and suspects in criminal cases and submitted to a laboratory. Processing this type of evidence is time-consuming because the evidence must be screened to determine if, and what kind of, biological materials are present before DNA testing can even begin. Some of these samples can be degraded or fragmented and can contain DNA from multiple suspects and victims.
- 2. Convicted offender and arrestee sample backlogs. By 2009, the federal government and all 50 states had passed bills requiring collection of DNA from offenders convicted of certain crimes. In addition, the federal government and many states had also passed legislation to allow collection from people who are arrested for certain crimes.

The processing of convicted offender and arrestee samples involves the DNA testing of the samples and the subsequent review and upload of the resulting DNA profiles into the national DNA database, called CODIS (Combined DNA Index System), which is operated by the FBI. (See sidebar "What Is CODIS?")

Delays in processing convicted offender and arrestee samples may occur at several stages along the way: the analysis, the review or the uploading into CODIS.



NIJ has provided funds to assist in the testing of approximately 1.8 million convicted offender and arrestee samples between 2005 and 2010. More than 18,000 hits in CODIS have resulted

WHAT IS CODIS?

The FBI's Combined DNA Index System (CODIS) is a software platform that blends forensic science and computer technology.

CODIS has multiple levels at which DNA profiles can be stored and searched: the local level (for city and county DNA laboratories), the state level and the national level. Data stored at the national level are found in the National DNA Index System (NDIS). It is at this level that a DNA profile from a crime scene sample (also known as a forensic unknown) can be searched against offender profiles across the nation to solve cases between states.

DNA analysts use CODIS to search DNA profiles obtained from crime scene evidence against DNA profiles from other crime scenes and from convicted offenders and arrestees. CODIS generates leads for investigators when a match is obtained. For example, if the DNA profile from a crime scene matches a sample taken from another crime scene, the cases may be linked in what is called a forensic "hit." If the crime scene sample matches a convicted offender or arrestee sample, an offender hit is obtained. Hits give investigating officers valuable information that helps them focus their investigation appropriately.

At the end of 2004, CODIS contained just over 2 million offender profiles. As of August 2010, the FBI reported that more than 8.7 million offender profiles and 332,000 forensic profiles from crime scene samples had been uploaded to CODIS. The result has been more than 124,800 hits and more than 121,900 investigations aided nationwide.

Learn more about CODIS at the FBI's Web site at http://www.fbi.gov/about-us/lab/codis/codis_brochure.

Because DNA samples taken from convicted offenders and arrestees are always collected on a standard, consistent medium (usually a paper product), they are significantly easier and faster to analyze than casework samples. The standardized collection methods used in each state for convicted offender and arrestee samples make it possible to use automated analysis on robotic platforms that can process approximately 96 samples and controls simultaneously. In addition, the laboratory does not need to "find" the DNA, unlike the forensic casework samples.

Evidence collected from crime scenes and stored in law enforcement evidence rooms waiting to be sent to a laboratory for analysis is not defined as a crime laboratory backlog. Some of the headlines about backlogs refer to rape kits being stored in law enforcement evidence rooms. NIJ considers untested evidence awaiting submission to laboratories to be a separate and different problem from backlogs in crime laboratories. Federal programs to reduce backlogs in crime laboratories are not designed to address untested evidence stored in law enforcement agencies. Untested evidence in law enforcement custody becomes part of a crime laboratory backlog only when law enforcement agencies submit the evidence to a crime laboratory. (See page 5, "Untested Evidence in Law Enforcement Custody," for further discussion.)

Why do backlogs continue to be a problem?

Consider exhibit 1, "DNA Casework Trends: Supply, Demand, Backlogs," and the story it tells about DNA backlogs in the nation's publicly funded crime laboratories.

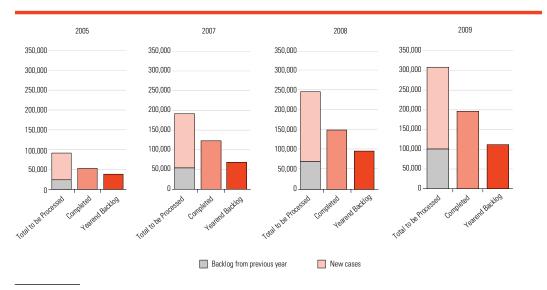
Each of the four graphs depicts DNA backlogs at a particular moment in time. Although data for 2005 and 2006 were



Exhibit 1. DNA casework trends: Supply, demand, backlogs

The 2005 graph is based on information from the Bureau of Justice Statistics report "Census of Publicly Funded Forensic Crime Laboratories." In that report, 124 of 187 laboratories that self-identified as handling forensic DNA contributed data. The 2007 graph is based on data reported by 153 of 154 laboratories in the study "2007 DNA Evidence and Offender Analysis Measurement: DNA Backlogs, Capacity and Funding." Data for 2008, reported by applicants for NIJ's 2009 DNA Backlog Reduction Program, come from 109 applicants representing 160 DNA laboratories. Data for 2009, reported by applicants for NIJ's 2010 DNA Backlog Reduction Program, come from 112 applicants representing 168 laboratories. (In both 2008 and 2009 applications to NIJ, state laboratory systems with multiple DNA laboratories or consortium applications representing more than one laboratory were asked to provide data for all laboratories included in the application.)

Yearend backlog numbers were computed from the information reported by laboratories: the number of cases they had at the beginning of the year plus the number of new requests they received during that year minus the number of those requests that were completed that year.



Sources:

2005 – Durose, Matthew R., Census of Publicly Funded Forensic Crime Laboratories, 2005, Washington, DC: U.S. Department of Justice, July 2008, NCJ 222181, http://bjs.ojp.usdoj.gov/content/pub/pdf/cpfccl05.pdf.

2007 – National Forensic Science Technology Center, "2007 DNA Evidence and Offender Analysis Measurement: DNA Backlogs, Capacity and Funding," final report to NIJ from grant 2006-MU-BX-K002, January 2010, NCJ 230328, http://www.ncjrs.gov/pdffiles1/nij/grants/230328.pdf.

2008 – 2009 grant applications to DNA Backlog Reduction Program, National Institute of Justice.

2009 – 2010 grant applications to DNA Backlog Reduction Program, National Institute of Justice.



collected by a different method, and survey response rates differ slightly, they portray the same pattern: as new cases received by DNA laboratories continue to outpace the ability of laboratories to complete these cases, backlogs persist. Taken together, these data depict increasing laboratory capacity but also growing backlogs. Please note that this exhibit is compiled from all public DNA laboratories that responded to surveys. Some DNA laboratories may have little or no backlogs, whereas others may have significant backlogs.

Today's crime laboratory backlog consists of recent cases, not older cases; the backlogged cases from 2004 — when Congress passed the legislation that created the DNA Initiative — have been analyzed.

The bottom line: Crime laboratories have significantly increased their capacity to work cases, but they are not able to eliminate their backlogs because the demand continues to outstrip the increased capacity.

Why is demand increasing?

Demand for DNA testing is rapidly increasing for many reasons:

Increasing Awareness—Knowledge of the potential of DNA evidence to solve cases has grown exponentially in recent years, not just among professionals in the criminal justice system but also among the general public.

Property Crimes—The number of samples from property crime cases being sent for DNA testing is skyrocketing, and property crimes are considerably more common than violent crimes. (Most laboratories require violent crime cases to be worked before property crime cases.)

Scientific Advances—Thanks to scientific advances, we can test smaller DNA

samples than ever before, such as "touch DNA" samples, which occur when DNA is transferred by the simple touching of an object. This has led to more requests for DNA testing of guns (to find out who may have handled the weapon) and the swabbing of steering wheels from stolen cars to try to identify the last driver of the car.

Cold Cases—Many older and unsolved cases from the "pre-DNA" era are being reopened and subjected to DNA testing with the hope of solving them.

Post-Conviction Testing—Numerous older, pre-DNA cases that resulted in a conviction have been reopened so DNA testing can be done.

Crime laboratory backlogs are not static: The numbers are in constant flux as (1) laboratories increase their capacity by improving processes, getting additional or newer and faster equipment, and hiring new staff; (2) more jurisdictions pass legislation to collect DNA from arrestees; and (3) laboratories receive more and more requests for DNA analysis or lose trained DNA analysts.

Do the data in exhibit 1 mean that the problem of casework backlogs is getting worse instead of better? The answer is "yes" and "no." Exhibit 1 shows that casework backlogs are increasing, but only in proportion to the increased demand for service. Crime laboratories have significantly increased their capacity to work DNA cases, but they have not been able to reduce backlogs because the increase in demand is outpacing the increases in capacity.

The good news is that thousands more cases were solved in 2009 than in 2005 as laboratories processed more DNA cases and the resulting profiles were uploaded into CODIS.

All the cases that
were in backlog in
2004 when Congress
passed the DNA
Initiative were worked
years ago. Today's
backlog consists
of recent cases.



Untested evidence in law enforcement custody

The issue of untested evidence in law enforcement agencies was first measured in an NIJ-funded study published in 2009. A nationwide sample of more than 2,000 agencies found that in 2007, 14 percent of unsolved homicide cases (an estimated 3,975 cases) and 18 percent of unsolved rape cases (an estimated 27,595 cases) contained forensic evidence that was not submitted by law enforcement agencies to a crime laboratory for analysis.¹

Serological/biological evidence and DNA were the most common forms of forensic evidence associated with these cases. Results also indicated that 23 percent of all unsolved property crimes (an estimated 5,126,719 cases) contained unanalyzed forensic evidence.

There are many reasons why a law enforcement agency might not submit forensic evidence to a crime laboratory for analysis. For example, subsequent investigation may show that the evidence is not probative, charges might have been dropped in the case, the case might be unfounded or a guilty plea may have already been taken.²

More research is needed to completely understand how law enforcement agencies decide to submit or not submit evidence to a laboratory, what proportion of open cases could benefit from forensic testing and how cases should be prioritized for testing.

There are several implications to the findings from the study of law enforcement forensic evidence not submitted to a laboratory:

- Law enforcement personnel may benefit from improved training on the benefits and use of forensic analysis.
- Many law enforcement agencies lack information management systems to track forensic evidence.
- There is a need for more standardized policies for evidence retention.

Submitting untested evidence in law enforcement custody for analysis could have a serious impact on DNA backlogs in crime laboratories if the evidence were suddenly submitted to a crime laboratory all at once. It would cause huge spikes in the workload and immediately drive up backlogs.

A better approach would be for investigating officers to carefully review the untested evidence and the case files to determine if forensic analysis is needed and if the laboratory would need additional elimination samples to identify suspects. Evidence may not need to be submitted, for example, in cases that have been adjudicated (either by trial or plea bargain) and in those cases where the victim has withdrawn the criminal complaint or the prosecutor has refused to file charges.

Open, active cases where the analysis of the evidence may provide important investigative leads to solve the case should be given the highest priority for submission to a crime laboratory. Evidence should be submitted gradually over time rather than all at once.

What is NIJ doing to deal with DNA backlogs?

Congress has provided hundreds of millions of dollars to reduce DNA backlogs in crime laboratories and grow the FBI's

Myth — Backlogs are a onetime event. As long as one chips away at the backlog of untested cases, it will eventually go away.

Reality — Backlogs are not a onetime event. They are dynamic and subject to the law of supply and demand. They may go down, but they may go up.



national DNA database, called CODIS. (See sidebar "What Is CODIS?") NIJ distributes the money through several programs that address different aspects of the backlog issues. These programs are making a big difference.

1. DNA Backlog Reduction Program.

This is NIJ's largest funding program. It provides direct grants to accredited public-sector DNA laboratories. The program's short-term goal is to reduce the backlog of untested cases by providing crime laboratories with funds to work more cases. The crime laboratories can either outsource backlogged cases to private laboratories or test more cases in-house.

The long-term goal is to build the capacity of crime laboratories by providing funds to purchase high-throughput instruments capable of processing multiple samples at the same time, automated robotic systems and laboratory information management systems to manage the data generated more efficiently. Funds can also be used to validate newer, more efficient laboratory procedures and hire additional personnel.

Even though backlogs persist, NIJ's DNA Backlog Reduction Program has helped

crime laboratories nationwide to reduce backlogs by 172,761 cases. It has also helped state and local DNA laboratories significantly increase their capacity to work cases between 2004 and 2010. (See exhibits 2 and 3.)

Without federal funds, there is no doubt many laboratories would not have been able to increase beyond the capacity they had in 2005.³

In a 2007 survey of publicly funded crime laboratories, 90 percent reported that they would not have sufficient funding if NIJ grants were no longer available. They estimated that on average about 26 percent of their casework budget comes from NIJ. With respect to particular aspects of DNA analysis, the laboratories estimated that federal funding covered 10 percent of the budget for reagents, 85 percent for instrumentation and 20 percent for training.

Federal funds have been used to purchase automated DNA extraction robots, high-throughput genetic analyzers, expert systems to assist in the analysis of DNA profile data, and laboratory information management systems to collect, process and assimilate case data. Funds have also been used to hire and train personnel and

Wyth — If we test
every single
backlogged case
in one huge effort,
then we will
solve the backlog
problem and will
never have to deal
with it again.

Reality — DNA
backlogs will exist
until the supply
(capacity of the
nation's crime
laboratories
to test cases)
surpasses demand
(new service
requests).

Exhibit 2. Funding for DNA Backlog Reduction Program

Year	Funding Provided
2004	\$66,566,231.00*
2005	\$48,440,901.00*
2006	\$55,296,599.00*
2007	\$44,239,199.00
2008	\$53,245,922.00
2009	\$62,271,832.00
2010	\$64,811,981.00
Total	\$394,872,665.00

^{*} Funding levels updated

Exhibit 3. Number of cases tested with federal funds

Year	Number of Cases Funded		
2004	29,414		
2005	19,369		
2006	16,057		
2007	9,278		
2008	30,350		
2009	31,285		
2010	37,008		
Total	172,761		



renovate laboratory space to increase efficiency.

The degree of reliance on federal funding reported by many laboratories suggests a critical need for state and local governments to seriously evaluate investment in their own forensic crime laboratories. Without a commitment to find permanent funding solutions for crime laboratories, it is likely that laboratory dependence on federal grants will continue.

2. Convicted Offender and Arrestee Backlog Reduction Programs. The software available in CODIS allows DNA analysts to automatically check unsolved case DNA profiles against profiles of convicted offenders and arrestees stored in CODIS. When a match is made, investigators get

a lead as to the potential perpetrator of an unsolved crime.

Delays and backlogs in testing convicted offender and arrestee samples and uploading their DNA profiles into CODIS limit the potential to identify suspects and may result in additional victimization by repeat offenders. Delays in uploading DNA profiles from both casework and convicted offender and arrestee samples give law enforcement fewer opportunities to get a match, identify and arrest a culprit, and prevent a future crime.

Exhibit 4 shows the status of backlogs in convicted offender and arrestee samples between 2007 and 2009.

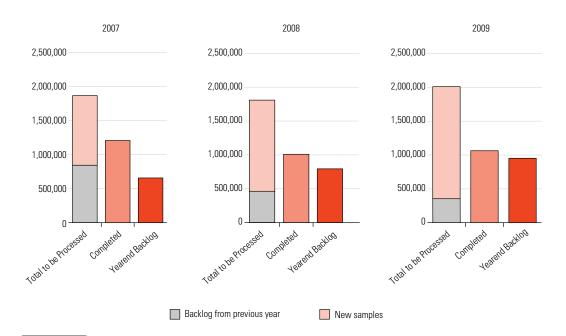


Exhibit 4. DNA trends: Combined convicted offender and arrestee data

Sources:

^{2007 –} National Forensic Science Technology Center, "2007 DNA Evidence and Offender Analysis Measurement: DNA Backlogs, Capacity and Funding," final report to NIJ from grant 2006-MU-BX-K002, January 2010, NCJ 230328, http://www.ncjrs.gov/pdffiles1/nij/grants/230328.pdf.

^{2008 – 2009} grant applications to DNA Backlog Reduction Program, National Institute of Justice.

^{2009 – 2010} grant applications to DNA Backlog Reduction Program, National Institute of Justice.



Exhibit 4 also shows the trends in offender samples (convicted offender and arrestee samples combined) between 2007 and 2009. The new sample collections and submissions increased from roughly 1 million samples in 2007, to approximately 1.3 million samples in 2008, to about 1.7 million samples in 2009. This increase is a direct reflection of new state statutes increasing the number of offenses that qualify for collection as well as the trend of collecting samples from arrestees. Since capacity has been relatively stable at approximately 1 million samples per year in 2008 and 2009, the yearend backlog of offender samples has increased steadily, from 657,166 in 2007, to 793,852 in 2008, to 952,393 in 2009. In late 2006 and early 2007, NIJ expanded the funding available for offender backlog reduction by including funding for arrestee samples. Major contracts for outsourcing of arrestee samples and backlogged convicted offender samples were made in 2006 and 2007, which helped clear backlogs and increase the number of samples completed (see exhibit 5). Requests for federal assistance for testing offender samples have decreased from the peak requests in 2006 and 2007.

NIJ offers two programs to help laboratories reduce the backlog of convicted offender and arrestee samples:

- 1. Convicted Offender/Arrestee DNA Backlog Reduction Program. Funds from this program are delivered in the form of grants to state agencies responsible for database sample analysis. Between 2005 and 2010, NIJ made more than \$36 million available to the nation's DNA database laboratories to reduce the backlog of convicted offender and arrestee samples. See exhibit 6.
- 2. Convicted Offender/Arrestee Backlog Reduction Outsourcing Program. Funds from NIJ's Convicted Offender/Arrestee Backlog Reduction Outsourcing Program are delivered via federal contracts to pay

Exhibit 5. Funding for outsourcing of convicted offender/arrestee backlog reduction

Year	Funding Provided		
2005	\$2,562,105		
2006	\$9,741,077		
2007	\$7,947,984		
2008	\$790,208		
2009	\$665,104		
2010	\$299,256		
Total	\$22,005,734		

Exhibit 6. Funding for in-house convicted offender/ arrestee backlog reduction

Year	Funding Provided		
2005	\$4,746,710		
2006	\$6,669,608		
2007	\$5,486,756		
2008	\$6,022,421		
2009	\$9,178,072		
2010	\$4,349,119		
Total	\$36,452,686		

"The Kentucky State Police Forensic
Laboratory is indebted to the National
Institute of Justice and its continued support
for the DNA operations of the Kentucky State
Police Forensic Laboratory. Without this
valuable funding, backlogs would be on the
rise instead of steadily falling and the laboratory would have no choice but to severely
restrict the number and/or types of cases
accepted for DNA analysis. Beyond meeting
the needs of today, the consistent support is
allowing us to build for the future."

— Laura Sudkamp *Laboratory Manager*Kentucky State Police Forensic Laboratories



vendors directly for samples residing in a state's backlog. Exhibit 5 shows funding levels by year.

Between 2005 and 2010, the two programs together have provided funds to help test approximately 1.8 million convicted offender and arrestee samples. The result has been more than 18,000 CODIS hits.

Notes

1. Strom, Kevin J., Jeri Ropero-Miller, Shelton Jones, Nathan Sikes, Mark Pope, and Nicole Horstmann, The 2007 Survey of Law Enforcement Forensic Evidence Processing, Research Triangle Park, NC: RTI International, October 2009, NCJ 228415, http://www.ncjrs.gov/pdffiles1/nij/grants/228415.pdf.

- 2. Read more about evidence in law enforcement agencies on NIJ's Web topic page at http://www.ojp.usdoj.gov/nij/topics/law-enforcement/handling-evidence/unanalyzed-evidence.htm.
- 3. Cantillon, Dan, Kathy Kopiec, and Heather Clawson, Evaluation of the Impact of the Forensic Casework DNA Backlog Reduction Program, Fairfax, VA: ICF International, February 2009, NCJ 225803, http://www.ncjrs.gov/pdffiles1/nij/grants/225803.pdf.
- 4. National Forensic Science Technology Center, "2007 DNA Evidence and Offender Analysis Measurement: DNA Backlogs, Capacity and Funding," January 2009, final report submitted to NIJ, grant no. 2006-MU-BX-K002, NCJ 230328, http://www.ncjrs.gov/pdffiles1/nij/grants/230328.pdf.

LEARN MORE

About benchmarking in forensic science laboratories:

Houck, Max M., Richard A. Riley, Paul J. Speaker, and Tom S. Witt, "FORESIGHT: A Business Approach to Improving Forensic Science Services," in *Forensic Science Policy and Management: An International Journal* 1 (2) (May 2009): 85–95.

- About the FBI's Combined DNA Index System (CODIS):
 - http://www.fbi.gov/about-us/lab/codis.
- About untested evidence in law enforcement agencies:

http://www.ojp.usdoj.gov/nij/topics/law-enforcement/handling-evidence/unanalyzed-evidence.htm.

- About using DNA in property crimes:
 - —Ritter, Nancy, "DNA Solves Property Crimes (But Are We Ready for That?)," *NIJ Journal* 261 (October 2008): 2–12, http://www.ojp.usdoj.gov/nij/journals/261/dna-solves-property-crimes.htm.
 - —Web topic page: http://www.dna.gov/solving-crimes/property-crimes.



AN OVERVIEW OF DNA ACTIVITIES AT NIJ

Solving Cold Cases With DNA

NIJ has a program supporting the resolution of older cold cases using DNA technologies. For more information on this program, visit http://www.dna.gov/solving-crimes/cold-cases.

Missing Persons

NIJ has funded the collection and analysis of DNA from cases involving missing persons and unidentified remains, and supports laboratories that perform this type of work. For more information on this program, visit http://www.dna.gov and click on the link for Identifying Persons and Victims.

In 2007, NIJ launched the National Missing and Unidentified Persons System (NamUs). NamUs is the first national online repository designed to help medical examiners and coroners share information about missing persons and the unidentified dead. For more information on this program, or to report a missing person, visit http://www.namus.gov.

Post-Conviction Testing

Since the advent of forensic DNA analysis, a number of people convicted of crimes have been subsequently exonerated through DNA analysis of crime scene evidence that was not tested at the time of trial. To learn more about NIJ's efforts to support post-conviction testing, visit http://www.dna.gov/funding/postconviction.

Training

NIJ has supported the development of training for law enforcement officers, officers of the court and forensic DNA analysts. To review the portfolio of training opportunities, visit http://www.dna.gov/training.

Improving DNA Unit Efficiency

NIJ has supported the development of novel and innovative technologies towards improving the efficiency of DNA unit operations. To learn more about this program, visit http://www.dna.gov/funding/laboratory-efficiency.

Research and Development

NIJ uses novel ways to harness the tremendous growth in fields such as molecular biology, genetics and biotechnology, and direct it toward the development of highly discriminating, reliable, cost-effective and rapid forensic DNA testing methods. As a result, NIJ has developed technologies that have:

- Increased the success rate of the analysis of samples (such as skeletal remains) that are degraded, damaged, limited in quantity or otherwise compromised.
- Improved the examination of sexual assault evidence
- Miniaturized the DNA testing process and made it field portable.

For more information on NIJ's DNA Research and Development Portfolio, visit http://www.dna.gov/research.

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About the National Institute of Justice

NIJ is the research, development, and evaluation agency of the U.S. Department of Justice. The Institute's mission is to advance scientific research, development, and evaluation to enhance the administration of justice and public safety. NIJ's principal authorities are derived from the Omnibus Crime Control and Safe Streets Act of 1968, as amended (see 42 U.S.C. §§ 3721–3723).

The NIJ Director is appointed by the President and confirmed by the Senate. The Director establishes the Institute's objectives, guided by the priorities of the Office of Justice Programs, the U.S. Department of Justice, and the needs of the field. The Institute actively solicits the views of criminal justice and other professionals and researchers to inform its search for the knowledge and tools to guide policy and practice.

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