

Arizona Department of Public Safety

DNA Evidence

Collection for Agencies

Today's Presenters

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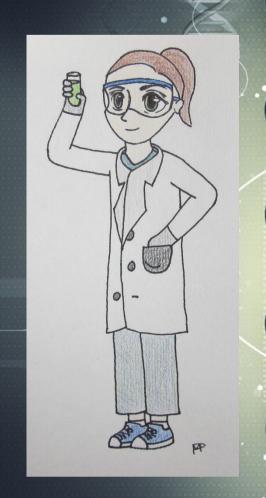
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Your friendly, neighborhood Forensic Scientists



Evidence Collection and Submission



What can DNA do for you?

CSI Effect affecting you?

- We're here to help bridge the gap
- How to get your evidence processed instead of sent back
- What can/does the lab even do????

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Communication

- We are here to start the conversation
 - Help us help you
- Please ask questions
 - Sticky notes

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Housekeeping

- Bathroom location
- Class is broken into 3 parts
 - With breaks in between
- Class Materials Packet
 - Survey
 - Flow chart
 - Handouts

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Disclaimer

Please note: anyone from an agency that does not typically submit DNA evidence to the DPS laboratory system (i.e. Scottsdale PD, Phoenix PD, Mesa PD) be aware that this presentation will entail information that is specific to the AZDPS crime lab submission guidelines and requirements. Your crime lab may have different requirements, recommendations and guidelines.

Topics

- What is DNA?
- What can forensic DNA answer?
- Types of DNA samples
- -Short Break-
- CODIS introduction
- Collection techniques
- -Short Break-
- Packaging of evidence
- Request for Scientific Examination
- DNA lab workflow

Performance Objectives

- 1. Identify three sources of DNA
- 2. Identify CODIS eligible/not CODIS eligible evidence given scenarios
- 3. Demonstrate how to collect DNA from various types of evidence....
- 4. Demonstrate how to properly fill out the AZDPS DNA Supplemental Form

What is DNA?

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 DNA stands for Deoxyribonucleic Acid

 DNA is the genetic instructions inherited from mother and father

What is DNA?

- Can be found in most cells in the body. Best sources of DNA are body fluids and tissues.
- DNA is unique to each individual

(exception - identical siblings)



We look at STR's (short tandem repeats) to assemble a DNA profile



What is a DNA profile?

- A list of numbers that represent the length of small areas of your DNA
- We look at 23 areas of your DNA
- There are 2 numbers for each of the 23 areas (one from each parent)
- The list of these numbers is unique to you

	Item # and Sample Description						
LOCUS	Crime Scene Evidence						
AMEL	X,Y						
D3S1358*	14,16						
D1S1656	11,11						
D2S441	11,12						
D10S1248	12,13						
D13S317*	8,9						
PENTA E	14,28						
D16S539*	9,12						
D18S51*	13,15						
D2S1338	24,24						
CSF1PO*	11,12						
PENTA D	11,13						
TH01*	8,9						
vWA*	14,18						
D21S11*	22,22						
D7S820*	11,12						
D5S818*	7,12						
TPOX*	8,12						
D8S1179*	13,14						
D12S391	28,28						
D19S433	13,13						
SE33	19,28.2						
D22S1045	15,15						
DYS391	9						
FGA*	21,23						
DYS576	19						
DYS570	29						
CODIS		*					
Comments							

	Identify and Council Description						
	Item # and Sample Description						
LOCUS	Crime Scene	Suspect 1					
	Evidence	1					
AMEL	X,Y	X,Y					
D3S1358*	14,16	14,16					
D1S1656	11,11	11,12					
D2S441	11,12	8,9					
D10S1248	12,13	14,15					
D13S317*	8,9	8,9					
PENTA E	14,28	15,1					
D16S539*	9,12	8,1					
D18S51*	13,15	13, 4					
D2S1338	24,24	23 24					
CSF1PO*	11,12	10 15					
PENTA D	11,13	8,18 7,1			2		
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D7S820*	11,12	10,16		~ 3			
D5S818*	7,12	19,21					
TPOX*	8,12	12,12					
D8S1179*	13,14	15,16	15				
D12S391	28,28	21,23			•		
D19S433	13,13	5,11					
SE33	19,28.2	28.2,28.2					
D22S1045	15,15	13,13					
DYS391	9	10					
FGA*	21,23	22,23					
DYS576	19	15					
DYS570	29	21					
CODIS							
Comments							

	Item # and Sample Description					
	Crime					
LOCUS	Scene	Suspect				
LOCUS		2				
	Evidence	2				
AMEL	X,Y	X,Y				
D3S1358*	14,16	14,16				
D1S1656	11,11	11,11				
D2S441	11,12	11,12				
D10S1248	12,13	12,13				
D13S317*	8,9	8,9				
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D16S539*	9,12	9,12				
D18S51*	13,15	13,15				
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DYS391	9	9				
FGA*	21,23	21,23				
DYS576	19	19				
DYS570	29	29				
CODIS						
Comments						

- It is not any one number that is unique to each person, but rather the list of numbers
- The more numbers on the list, the more unique the profile is.

DNA Rocks 5432 S. Helix Lane Genetics, AZ 85009



JAMES WATSON

1953 Crick Ave.

Forensicland, AZ 83254

Because DNA is unique to an individual, it is useful in forensic investigations.

Understanding how DNA can help your investigation will-help you apply this technology in the most effective manner.

In terms of each case, think about what questions you are trying to answer and how DNA can help you answer those questions.



Some cases are just not DNA cases.

Can help generate investigative leads in cold cases and cases without a suspect, utilizing CODIS (national database).

Example: A DNA profile from a cigarette butt found at the crime scene is put into CODIS and "hits" a profile already in CODIS.

Whether a particular DNA profile is present on an item or at a crime scene (forensic evidence triangle)

Example: The DNA profile from the blood found on the knife collected from the suspect matches the DNA profile of the victim.

Forensic Evidence Triangle CRIME SCENE



SUSPECT

Suspect's knife has victim's blood on it

Perpetrator of a sex crime if we develop DNA profiles from Sex Crime Evidence Kits (SCEK)

Example: The DNA profile from semen found on the victim's body matches the suspect.

Familial questions (ex. criminal paternity).

Example: Pregnancy resulting from a sexual assault or sexual contact with a minor (can test DNA from the baby or aborted fetus to compare with mother and/or suspect).

What Can Forensic DNA Answer? Identity of an individual

Examples:

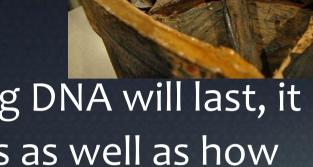
- Unidentified human remains (DPS will do only if it's related to a crime)
- Unknown identity cases (unable or unwilling to identify themselves)

What <u>CAN'T</u> Forensic DNA Answer? How the DNA got there

There are many ways DNA can be transferred to an item: touching, sneezing, talking, transferring of bodily fluids and natural shedding of skin cells.

What CAN'T Forensic DNA Answer?

When the DNA got there



No time frame on how long DNA will last, it depends on several factors as well as how much DNA was left behind.

> "World's Oldest Genome Sequenced From 700,000-Year-Old Horse DNA"

- By Jane J. Lee, National Geographic, June 27, 2013

What CAN'T Forensic DNA Answer?

Whether an item was or was not handled by an individual

There are many ways for someone's DNA to be transferred to an item. This is why we typically will not perform DNA analysis on prohibited possessor cases.

What CAN'T Forensic DNA Answer?

Consent

Example: A sexual assault where the suspect claims the sexual contact was consensual.

Types of DNA Samples

We have broken them down into three categories:





Types of DNA Samples



The "Good" (blood, saliva & semen)

The "Bad" (trace/touch DNA)

The "Ugly" (urine, feces & vomit)



Blood, saliva and semen

Usually very good sources for DNA

Usually single source samples

Usually need less sample to get results

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Single Source DNA Profile



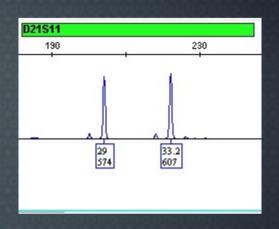
Each location usually has only one or two peaks



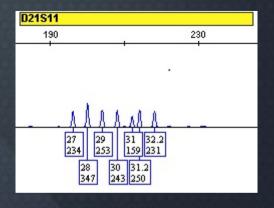
Trace/Touch DNA

- Generally a very limited source of DNA
- Sweat is considered a trace DNA sample
- Not much DNA present = might only get a partial DNA profile
- Often results in DNA mixtures of multiple people

What Does A Mixture Look Like?



Single source – Usually one or two peaks per location



Mixture – Many peaks per location

Can be very difficult to interpret

What Does A Mixture Look Like?



"The Bad" Trace/Touch DNA

Usually harder to get good results
In theory, only a small number of cells are needed for DNA analysis

However...

"The Bad"

- Touching a surface or item briefly usually leaves very little, if any, sample
- Better samples would be something handled/used over a long period of time (hat, cell phone, shirt, sunglasses)

"The REALLY Bad"

Trace, "touch" DNA

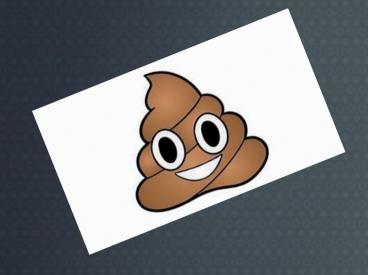
- Shell casings
 - Last resort item
 - Cannot be a dual request item (ex. cannot do both latent prints and DNA on a casing)
 - It is an item that is only touched briefly
 - Undergoes extreme heat (can destroy DNA)
 - Very small surface area



Urine, feces, vomit, etc.

Not tested routinely for DNA

- Feces: swab the outside
- Vomit: swab
- Urine: call the lab



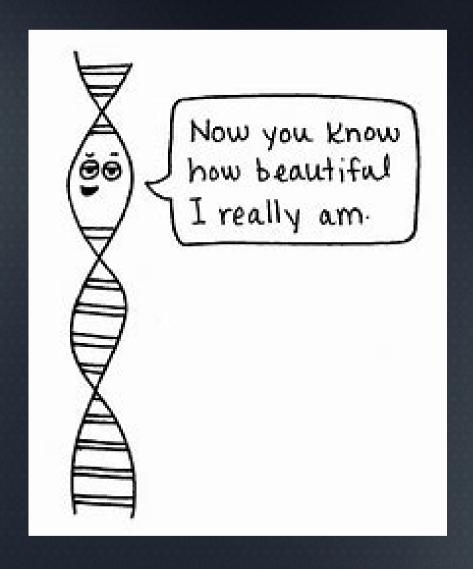
DNA Samples

Generally Better Samples of Each Type*

- <u>Blood</u> Ex. Blood on broken window at point of entry
- Saliva Ex. Cigarette butt or water bottle
- Mucus Ex. Used tissue
- <u>Semen</u> Ex. Used condom

*Please note that the condition of the sample, amount and other factors can affect the quality of the sample.

Short break



CODIS

National DNA Database <u>Combined DNA Index System</u>

- 3 Levels of Database
 - National, State and Local
- 3 Categories of Indexes
 - Forensic DNA Profiles, Convicted
 Offender DNA Profiles, Unidentified
 Human Remains Profiles

CODIS National DNA Database Combined DNA Index System

- Useful for generating a suspect
- Useful for linking suspects and/or cases nationwide



CODIS

Not all DNA profiles that we get from evidence are eligible to enter into CODIS.

CODIS is managed by the FBI and they have rules that we must follow.

CODIS Eligibility

Questions we must answer about the evidence in order to use CODIS

- Was a crime committed?
- Where was the evidence collected from within the crime scene?



CODIS Eligibility Information

Where, specifically, was the item located in relation to the crime scene?

Please be <u>detailed</u> and <u>specific</u> on the DNA Supplemental Form about where each item was located.

CODIS Eligibility

Questions we must answer

 Was the DNA on the evidence likely left by the perpetrator of the crime (not a victim or other person)?



CODIS Eligibility Information

Was the item located in an area where the public has access (i.e. sidewalk, front yard, parking lot)? If YES, please explain (how can the item be attributed to the perpetrator).



CODIS Eligibility Information

Can anyone confirm that the item does not belong to the victim and/or that the item was not present prior to the crime?

Considerations

Did the victim deny ownership of the item? Ex. "We do not smoke. This cigarette butt isn't ours."

Did the victim state the item or body fluid wasn't present prior to the incident?

Ex. "This Coke can wasn't in my car when it was stolen."

CODIS Eligibility Information

Has the item been handled by anyone other than the suspect (i.e. owner/victim)?

If yes, in most cases* elimination standards must be submitted under the same DR# for each individual.

* An exception to this would be in the case of blood.

Considerations

If the item does belong to the victim, but is believed to have suspect DNA on it:

Victim elimination standards <u>must</u> be submitted in most cases.*

*An exception would be in the case of blood left behind at a scene.

CODIS Eligibility

Questions we must answer

Was the evidence seized or collected directly from a suspect's possession? (Not CODIS eligible)



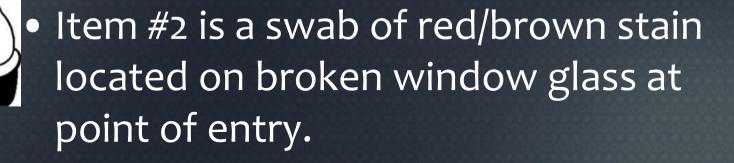
CODIS

Reasons a profile may not be CODIS eligible:

- The evidence did not meet CODIS eligibility requirements
- Elimination standards were not received
- We were not able to obtain a DNA profile or not enough of a profile to meet CODIS rules
- Complicated mixture

CODIS Eligible Examples

• Item #1 is a cigarette butt found inside burglarized residence. Owners confirmed it did not belong to them.



• Item #3 is a hat collected from the fenced backyard of the residence. It does not belong to the occupants.

Examples that <u>may not</u> be CODIS eligible:

- In the <u>front yard</u> of a burglarized residence
- On the ground <u>outside</u> of a recovered vehicle
- In an <u>empty lot nearby</u> a burglarized business

CODIS Eligibility Scenarios

- Complete handout for CODIS Eligibility Scenarios utilizing information just presented.
- We will come back together as a class to go over the answers and discuss any questions regarding CODIS eligibility.

A perpetrator grabs a woman's purse in a public parking lot, jumps into a car and drives away. The victim states that she saw the perpetrator throw his soda cup to the ground as he jumped into the car. She points out the cup and straw in the parking lot. The cup and straw are collected and submitted for DNA analysis.

 If a complete DNA profile is obtained from the cup/straw, will that profile be eligible to upload into CODIS?

Yes, <u>if</u> the victim is positive that it is the same cup that the perpetrator threw to the ground.



A suspect was stopped by the police and pulled a gun on the officer, but then dropped it and fled. The suspect was not apprehended, but the gun was collected.

If a complete DNA profile is obtained from the gun, will that profile be eligible to upload into CODIS?

Yes

The offense in this case is felon in possession of a firearm. The DNA profile from a swabbing of the gun matches the suspect. The gun was recovered from a backpack belonging to the suspect.

Can the complete DNA profile obtained from the gun be eligible to upload into CODIS?

Detectives investigating a residential burglary locate a cigarette butt in the front yard of the home near the sidewalk. None of the occupants living in the home smoke.

If a complete DNA profile is obtained from the cigarette butt, will that profile be eligible to upload into CODIS?

No

 Victims answer their door late at night and multiple suspects enter and commit a home invasion/robbery. Only one suspect was identified, but he was not connected to the scene through DNA. On that same night, a suspicious scene unfolded in the same neighborhood, where a lady said that there was a knock on her door, but she did not answer. As the people were leaving, she saw one discard a bottle on her lawn...

The investigator thought these two incidents may be related, so he recovered the bottle and submitted it for analysis in connection with the first case. A DNA profile was obtained from the bottle, however, it does not match the identified suspect from the first incident.

•Can the DNA profile from the bottle go into CODIS?

No

• A gun is found under the seat of a suspect's car. He says he has no idea how it got there and has never seen it before. DNA is requested to show that he handled the gun.

Will DNA answer that question?

- NOT NECESSARILY
- Finding his DNA on the gun doesn't absolutely prove that he handled it.
 - Sneezing/saliva
 - Skin cells
- NOT finding his DNA on the gun doesn't prove he DIDN'T handle it
- Latent print analysis may be more effective/efficient at answering this

Collection Techniques

To avoid contamination of DNA evidence, always take the following precautions:

- Wear gloves. Change them often.
- Use disposable instruments or thoroughly clean them after each item of evidence.
- Avoid touching the area where you believe DNA may be present
- Avoid coughing, sneezing or talking over the evidence (even if you're wearing a mask).

Collection Techniques

To avoid contamination of DNA evidence, always take the following precautions:

- Avoid touching your face, nose and mouth while collecting evidence.
- Air-dry evidence thoroughly before packaging
- Put evidence in new paper bags or envelopes.
 Avoid plastic bags.

Reminder

You only have one chance to collect the evidence.

Please do not forgo collection based on DPS crime lab submission policies.

A Tiered Approach is Recommended

Items collected at the crime scene (cast a wide net)



<--These should be carefully scrutinized and prioritized



Items processed by the crime lab

Every additional unnecessary analysis we perform on the case at hand is an analysis that is not done on the next urgent case waiting in line.

Collection Techniques

Blood

 Large bloodstains on a nonporous surface

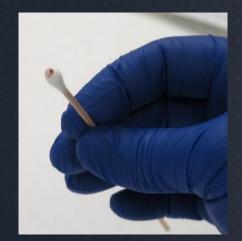
One to two swabs

Saturate swabs



Collection Techniques Blood

- Small bloodstains on non-porous surface
- One slightly wet swab
 - Concentrate stain on tip of swab



Collection Techniques Blood

- Large bloodstains on clothing or bedding
 - Send to us for testing or
 - Cut out stained areas and send to us (document or photograph evidence before cutting)

Collection Techniques

- Small bloodstains on clothing or bedding
 - Send to us for testing

Blood

May circle any stains of interest

Collection Techniques

Blood

 Bloodstains on small, easily packaged items (cell phone, tools, water bottle, etc.)



Send us the entire item

Collection Techniques Saliva

- Send in small, easily packaged items (bottles, cans, cigarette butts), we will process them.
- If you are swabbing an item:
 - Concentrate sample on no more than two wet swabs
 - Swab vigorously around mouth area!

Collection Techniques

Trace

- Send in small, easily packaged items (bottles, cans, tools, etc.), we will swab them.
- If you are swabbing an item:
 - Concentrate sample on no more than two wet swabs
 - Swab vigorously!

Eyeglasses	One swab of entire item
Earphones	One swab of both earbuds
Winter Hats	Inside headband cutting
Baseball Caps	Swab inside headband or inside
	headband cutting
Fabric Gloves	Swab inside fingers & thumb or
	thumb pad area cutting
T-shirts	Swab inside collar or inside collar cutting
Watches	Swab inside surface and clasps
Latex Gloves	Swab inside surface
Socks	Swab inside surface or heel cutting

Don't forget to collect elimination standards!

Examples:

- Swabs from home All occupants of the residence
- Vehicle swabs All drivers of the vehicle
- Firearm Anyone who uses the firearm
- Victim
- Consensual sex partner(s)



For Touch Cases

It doesn't matter who touched the item last. There are many considerations:

Who else has touched this item?

How long did the person handle it?

Some people "shed" more DNA than others.

*Cleaning products do not necessarily remove DNA

Known Standards = Buccal Swabs

Buccal = inner cheek of a person's mouth.

Buccal swab = cheek swab



THIS





Known Standards = Buccal Swabs

 When collecting buccal swabs, take 2 swabs of the inner cheek

 Please ensure that buccal swabs are labeled with person's name and name is spelled correctly



Collection Techniques

Dual Requests

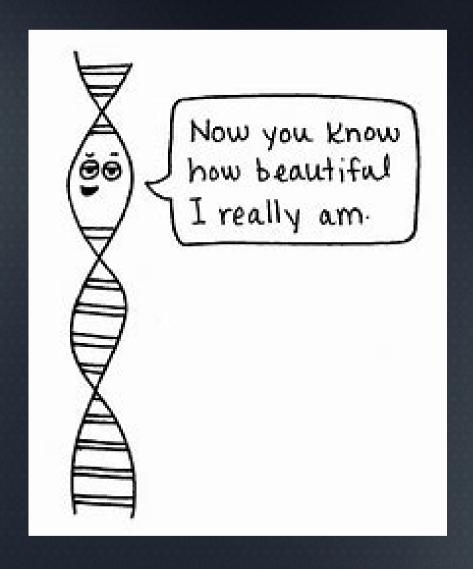
- DNA and Latent Prints/Firearms
 - DNA must be collected first.
 - Items undergoing DNA analysis must be handled by someone who is wearing gloves and a mask to prevent contamination.

Collection Practicum Activity

Choose one station to start at:

- Blood collection
- Saliva/Trace collection
- Buccal swab collection
- Instructions are at each station
 - Use information from presentation to aid in collection process
- Rotate stations when instructed

Short break



Components of Packaging

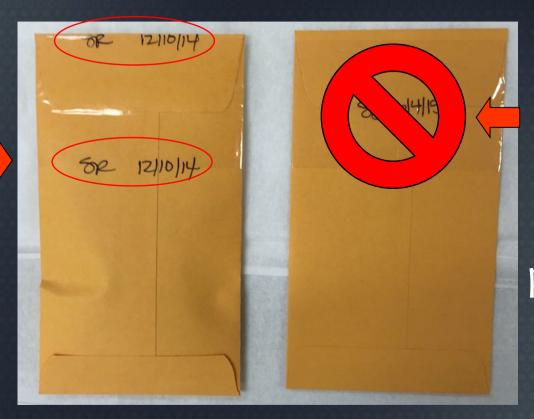


- Appropriate packaging material
 - Envelope
 - Paper bag
 - Cardboard Box
 - Swab box
- Required markings
 - Item #
 - DPS DR #
 - Agency DR #
- Correctly spelled names

Components of Packaging

Proper Tape Seal

Markings /initials are on tape and the package = TAPE **SEALED**



Markings on tape do not overlap onto the package = **NOT TAPE SEALED**

Other Packaging Considerations

- Dry all items and swabs prior to packaging
- Empty liquids from drinking containers prior to packaging
 - Empty liquid through bottom if saliva is suspected on mouth area
- If possible, package each item separately
- Do not over package (please!)
 - No clown car packaging
 - No Russian doll packaging









Known Standards (a.k.a. buccal swabs)

- Except for sex assault and biological standards kits, all known standards should be submitted in a package separate from crime scene evidence
- Package the 2 swabs in a swab box and seal this swab box in only <u>one</u>
 large outer manila envelope
- Submit known DNA standards as a single item, at the same time crime scene evidence is submitted to the lab

Packaging Handout

- Take the next 5-7 minutes to complete packaging handout
- Feel free to discuss scenarios with your neighbors
- We'll come back together as a class to discuss scenarios and answer any questions you may have

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ARIZONA DEPARTMENT OF PUBLIC SAFETY

NON-DPS AGENCY REQUEST FOR SCIENTIFIC EXAMINATION

PHOENIX - (602)223-2394 FLAGSTAFF - (928)773-3684 TUCSON - (520)746-4575 LAKE HAVASU - (928)680-5490

DPS DR #

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ARIZONA DEPARTMENT OF PUBLIC SAFETY

NON-DPS AGENCY REQUEST FOR SCIENTIFIC EXAMINATION PHOENIX - (602)223-2394 FLAGSTAFF - (928)773-3684

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ARIZONA DEPARTMENT OF PUBLIC SAFETY NON-DPS AGENCY REQUEST FOR SCIENTIFIC EXAMINATION PHOENIX – (602)223-2394 FLAGSTAFF – (928)773-3684

DPS DR #

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ARIZONA DEPARTMENT OF PUBLIC SAFETY NON-DPS AGENCY REQUEST FOR SCIENTIFIC EXAMINATION PHOENIX – (602)223-2394 FLAGSTAFF – (928)773-3684

DPS DR #

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HAS TH	IS EVIDENCE	BEEN EXAMINE	D BY ANOTHER	R AGENCY?		YES NO	IF YES, EX	(PLAIN											
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THE AR	IZONA DEPARTI	MENT OF PUBLIC	SAFETY CRIME I	ABORATORY W	ILL HAVE	INITIAL DISCRET	ION OVER	THE SELECTION OF	TEST ITE	MS A	ND M	ETHO	DS FO	RAN	ALYS	is.			

Please Keep in Mind

• Usually we do not test evidence that has had any previous testing by another lab.

• Using Bluestar/Luminol (or similar) at crime scenes can dilute stains and limit our chances of getting a DNA profile.

Supplemental Information

Case information/synopsis

 Sex Crimes Evidence Kit paperwork

ONA Supplemental Form



Arizona Department of Public Safety Crime Laboratory **DNA** Evidence Submission Supplement

Answer the questions below and attach to request form or email to the appropriate lab handling your request.

Lack of information or incomplete answers will result in the delay of analysis.

PHOENIX: crcl dna@azdps.gov TUCSON: srcl dna@azdps.gov FLAGSTAFF: nrcl dna@azdps.gov

All questions must be answered.

Agen	cy:	Agency Case Number:		
Offic	er/Det: Badge#	DPS DR Number:		
Direc	t Email:	Direct Phone:		
	ise(s):	Trial Date:		
1.	Describe what happened in this case (or attach a short case summary):		
2.	How does each item submitted relate to the crime, and where was it	found?		
3.	Identify the 5 most probative items:			
4.	If blood was present at the scene, how many people were bleeding?	How does each person relate to the crime?		
5.	What is believed to be the source of DNA for each item? Source: Item Number(s)		_	
-	Blood Saliva		4	
- 1	Touch		\dashv	
ŀ	Other (Please identify):		\dashv	
٠			Y	N
6.	Was the item(s) located in an area accessible to the public (e.g., side If YES, please contact the Laboratory before submission.	ewalk, front yard, parking lot)?		
7.	Was the item(s) left behind by the perpetrator?			
8.	Does the item(s) belong to the victim?			
9.	Was the item(s) present at the crime scene before the crime was con	nmitted?	\vdash	
10.	Has the item(s) ever been handled by someone other than the perper If YES, an elimination standard from this person must be submitted			
11.	Was the item(s) taken directly from the suspect or from something If YES, please contact the Laboratory before submission.			
12.	If a sexual assault, does the victim have a consensual sex partner w. If YES, an elimination standard from this person must be submitted	_		
13.	Is there any additional important information that the laboratory need	is to know (e.g., victim & perpetrator live together)?		
	If there is one or more perpetrators in the case or if anyone other than	the perpetrator (victim/owner/residents) has touched th	ie	1

ENVELOPE UNDER THE SAME DPS DR NUMBER.

Evidence origin information is required by the FBI to determine CODIS eligibility requirements. Form Effective: 10/2017

evidence item ever, elimination standards from this (these) individual(s) must be obtained and SUBMITTED IN A SEPARATE

Form completed by:______ Date of completion:_____

DNA Supplemental Form

This and other forms/ information available on our website:

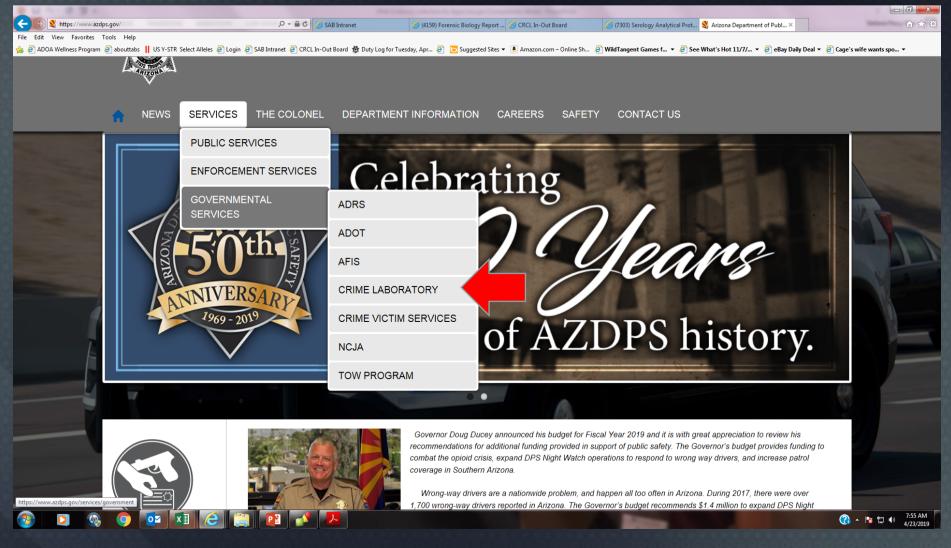
https://www.azdps.gov/organization/TSD/scient ific-analysis/dna#casework

From our main website:

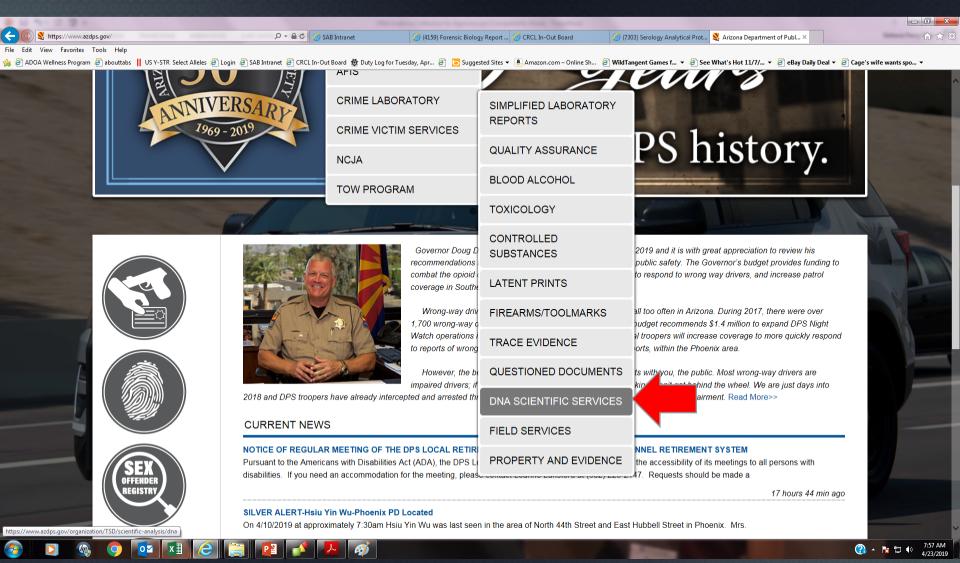
AZDPS.gov > Services > Governmental Services

> Crime Laboratory > DNA Scientific Services

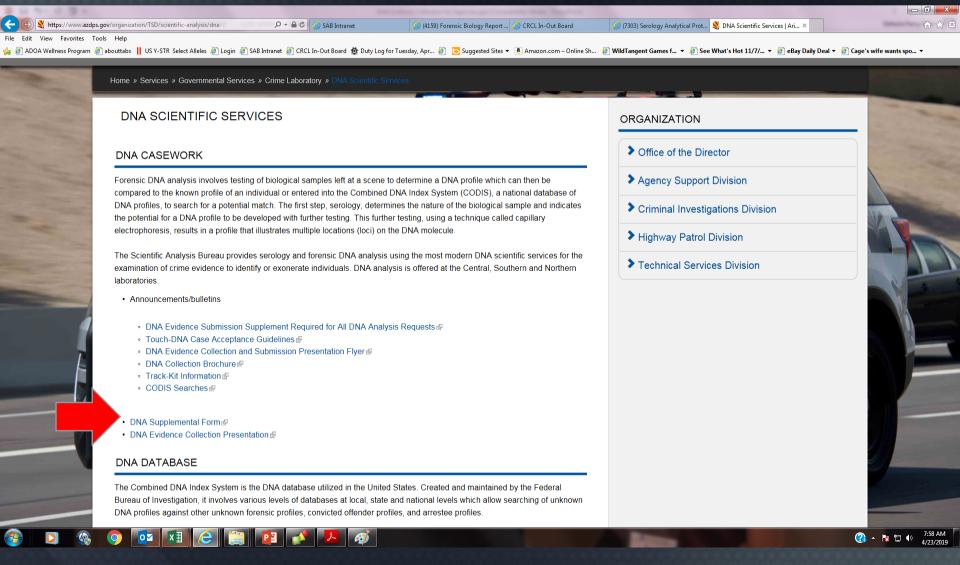
DNA Supplemental Form Find on AZDPS.gov



DNA Supplemental Form Find on AZDPS.gov



DNA Supplemental Form Find on AZDPS.gov



WHO KILLED

JOHN RINGO

BY JOSEPHINE EARP

(EDITED BY GLENN G. BOYER)



John Hirgo is Immed in this pleasure open along West Turkey Creak

WYATT EARP: FAMILY, FRIENDS

AND FOES, VOL. V



The Cliff Notes

- Wyatt Earp was bringing on the reckoning.
- Johnny Ringo sends his peeps to Earp's peeps to challenge him to a duel.
 - Note- Ringo is a skilled gun fighter->Earp would probably lose
- Allegedly... Doc Holiday,
 who is Earp's BFF,
 unknowingly shows up
 in Earp's place
 Doc->better gun fighter
 than Earp & Ringo



- Ringo was unpleasantly surprised
 - Note- Ringo has a big ego & emotional problems that questioned his desire to live
- Shoot out occurs->Bang Ringo is dead!

ARIZONA DEPARTMENT OF PUBLIC SAFETY

NON-DPS AGENCY REQUEST FOR SCIENTIFIC EXAMINATION

PHOENIX - (602)223-2394 FLAGSTAFF - (928)773-3684 TUCSON - (520)746-4575 LAKE HAVASU - (928)680-5490 DPS DR #

2019123456

AGENCY		SUBMITTING AGENCY	SUBMITTING AGENCY CASE #				0.5		0.5				
Tombstone Sheriff's Office		20191234	5		HODE		GE_					OTH	
CASE OFFICER	ID#	OFFICER'S DIRECT WORK PHO	NE (1) ASSOCIATED IN		USPE				ICTIN 3.	Л	C	= OTH	EK
Wyatt Earp	10G	dispatch	Doc Holida	ay									, 0
CASE OFFICER EMAIL		DIRECT Contac	CHARGE(S) (2) ASSOCIATED IN	IDIVIDLIAL	2/1407	FIDOT	- 11\ [100				ات	<u>_</u>
SPECIAL INSTRUCTIONS/CASE HISTORY		information	unknown	IDIVIDUAL	(LAS	, FIRST	, M) L	J.U.E	o.			s v	v 0
Do DNA, RUSH		IIIIOIIIIatioii	CHARGE(S) (3) ASSOCIATED INDIVIDUALS (LAST, FIRST, M) D.O.B.										√ °
More info. Rush???			Ringo CHARGE(S)		(2		,					S \	/ O
	R	EQUES	STS F	OR A	NALY	'SIS		ASSO	DUALS				
DPS ONLY ITEM# BRIEF DESCRIPTION OF EVIDENCE BA CS DNA F/T LP QD TOX													2) (3)
1	nat?												
2		clothes from	whom? Wh	ıv?									
3		swab of w											
4		cigarette butt		, (
7		cigarette butt	HUH	\cdot	V								
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BA= BLOOD ALCOHOL CS= CONTROLLED SUBSTANCES DNA= DNA HAS THIS EVIDENCE BEEN EXAMINED BY ANOTHER AC	SEROLOGY SENCY?	F/T= FIREARMS AND TRACE LP= LAT	NT PRINTS QD= QUESTIONE S, EXPLAIN	D DOCUMEN	S	гох=то	XICOLO	GY	CF	U= CO	MPUTE	R FOREN	SICS
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DPS P&E USE ONLY ITEM(S)/PACKAGE(S) I	FROM NAME	ID NO.	TO NAME	ID NO.		PUR	POSE				DAT	E/TIME	
THE ARIZONA DEPARTMENT OF PUBLIC SAFETY CRIME LAB		NAME IN THE PROPERTY OF											

All questions <u>must</u> be answered.											
Agency: Tombstone Sheriff's Office		Agency Case	Number:								
Officer/Det Wyatt Earp	Badge# 10G	DPS DR Nu	mber:								
Direct Email:		Direct Phone	:								
Offense(s):		Trial Date: to	ототом								
Describe what happened in this case (or shoot out at the OK Corral	attach a <u>short</u> case sumr	nary):									
Shoot out at the OK Cortai											
2. How does each item submitted relate to	the crime, and where wa	s it found?									
collected from scene, DNA											
 Identify the 5 most probative items: 											
1-5											
4. If blood was present at the scene, how m	any noonle were bleedin	How door	each person relate to the crime?								
everyone	any people were oleedin	ig: How does	each person relate to the crime:								
creiyene											
What is believed to be the source of DN.	A for each item?										
Source:	Item Number(s)										
Blood Saliva	2 Ringo's clothes maybe			•							
Touch	yes										
Other (Please identify):											
				Y N							
6. Was the item(s) located in an area acce	scible to the public (e.g.	cidancally front word	narking lat\?								
If YES, please contact the Laboratory b		sidewalk, from yard, j	parking loty:	\odot							
Was the item(s) left behind by the perp	etrator?										
Does the item(s) belong to the victim?											
o. Does the flem(s) belong to the victim:				\odot							
Was the item(s) present at the crime so	ene before the crime was	committed?									
10. Has the item(s) ever been handled by s	omeone other than the ne	emetrator (e.g. owner/	victim)?								
If YES, an elimination standard from th	_		-	\bigcirc							
11. Was the item(s) taken directly from the		ing belonging to the su	ispect (e.g., backpack, car, etc.)?								
If YES, please contact the Laboratory b 12. If a sexual assault, does the victim have			4111142								
If YES, an elimination standard from the	-		_								
13. Is there any additional important informa	-			?							
If there is one or more perpetrators in the	•		_								
evidence item ever, elimination standards f ENVE	from this (these) individu LOPE UNDER THE SA			KATE							
				(2047							
Evidence origin information is requir	red by the FBI to determ		requirements. Form Effective: 10/	2017							
Form completed by: Wyatt Earp		Badge#: 10G	Date of completion:								

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ARIZONA DEPARTMENT OF PUBLIC SAFETY

NON-DPS AGENCY REQUEST FOR SCIENTIFIC EXAMINATION

PHOENIX - (602)223-2394 FLAGSTAFF - (928)773-3684 TUCSON - (520)746-4575 LAKE HAVASU - (928)680-5490 DPS DR #

2019123456

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Wy	/att Earp		100	3 480-8 <mark>/</mark>			Doc Holid	ay									v	0				
CASE	OFFICER EMAIL	w earn@to	mbstone.go	V			CHARGE(S)									√		Ĭ				
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																S	V	0				
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ONLY	ITEM #	*							BA C	CS DNA	N F/1	LP	QD II	OXC	FU	(1) (2)	(3)				
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HAS	THIS EVIDENCE	BEEN EXAMINED BY A	NOTHER	YES	✓ NO	IF YES, EX	(PLAIN															
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Agency: Tombstone Sheriff's Office			Agency Case Number: 201912345		
Office	r/Det:Wyatt Earp	Badge# 10G	DPS DR Number: 2019123456		
Direct	Email: W.Earp@tombstone.gov		Direct Phone: 480-867-5309		
Offens	e(s): Homicide, impersonating a peace offi	cer	Trial Date: 10/19/19		
1. Describe what happened in this case (or attach a short mary):					
	Shoot out between Holiday and Ringo. Ringo was fa				
2.	How does each item submitted relate to the cri	ime	found?	_	
	Revolver believed to be murder weapon p		oliday, recovered from shoot out location. Cigarett	e	
	butt believed to have been dropped by Ho	oli <mark>.</mark>	shoot out location.		
3.	Identify the 5 most probative items:				
	1-5				
4.	If blood was		.o the crime?		
	Johnny Ringo (victs.				
_	What is believed to be the				
5.	Source:				
	Blood				
_ ⊢	Saliva			•	
	Fouch			•	
Ľ	Other (Please identify):				
				Y	Ν
6.	Was the item(s) located in a	ablic (e.g.,	vking lot)?		
<u> </u>	If YES, please contact the L	mission.		\odot	\subseteq
7.	Was the item(s) left behin	r?		\odot	\bigcirc
8.	Does the item(s) belong				•
9.	9. Was the item(s) presert the crime scene before the crime was committed?				<u>(</u>
10. Her the item(s) come has been been been been deed as a consequence of a consequence of the second of the secon					
10. Has the item(s) ever been handled by someone other than the perpetrator (e.g., owner/victim)? If YES, an elimination standard from this person must be submitted under the same DPS DR number.					\odot
11. Was the item(s) taken directly from the suspect or from something belonging to the suspect (e.g., backpack, car, etc.)?					
If YES, please contact the Laboratory before submission.					
12. If a sexual assault, does the victim have a consensual sex partner within 120 hours of the alleged assault? If YES, an elimination standard from this person must be submitted under the same DPS DR number.					\odot
13. Is there any additional important information that the laboratory needs to know (e.g., victim & perpetrator live together)?					
Items recovered from a public location, however, grainy video surveillance shows suspect drop revolver and cigarette butt, face is not clear,					
however it appears he said "I'm your huckleberry."					

Why We Ask for Supplemental Information

- Triage cases
 - Who does the item belong to?
 - What type of bodily fluid?
 - How many possible bleeders?
 - How many assailants/victims?
- Determine required standards
- Determine CODIS eligibility

DNA Supplemental Form Exercise

- Using scenario provided on the handout, please fill out a DNA Supplemental Form
- Fill out properly, as you will need a sign off from one of the instructors

Lab Workflow

- What actually happens to all that paperwork and evidence you submit???
- How will you know if you did it properly or if you missed something???

Agency Withdrawal

- An effort to obtain standards and/or CODIS eligibility information
- Cases missing information will be issued this report
- -Case analysis is on hold for 60 days. After 60 days, if we receive no response, evidence is returned to agency.



ARIZONA DEPARTMENT OF PUBLIC SAFETY

SCIENTIFIC EXAMINATION REPORT

DR NO. 2015 Page 1 of 1

AGENCY

AGENCY NO.

OFFICER

February 12, 2015

DATE NAME(S)

EXAMINATION REQUESTED:

DNA

In order for the laboratory to proceed with an analysis in this case, the following information is required:

Suspect standard(s) for comparison

Additional information on how the evidence is related to the crime/crime scene as required for entry into the CODIS database.

If additional information is available, please fill out a DNA supplemental form and email it, along with any questions, to CRCLPropCrimes@azdps.gov. If the requested information is not received within 60 days of the date on this report, the request for analysis will be withdrawn and the evidence returned. The DNA Supervising Criminalist can be reached at 602-223-2394.

3/19/9/-

BRITTANY AGUILAR, #7561, Criminalist Central Regional Crime Laboratory 2102 W. Encanto Blvd., Phoenix, AZ 85009 (602) 223-2394

Laboratory System Accredited by ASCLD/LAB - International (ISO)

Any notes, photographs, charts, or graphs generated during the examination are retained in the laboratory,

Suspect Standards

Can be used to do a direct comparison to the evidence. This is useful on evidence that is



not CODIS eligible.

Suspect Standards

- Convicted offender and arrestee samples in CODIS CANNOT be used as suspect standards
- Must be collected and submitted by law enforcement (chain of custody)
- A suspect standard is required to confirm a match made in CODIS

No Suspect Standard Received

- Case evidence processed for DNA
- DNA profile from evidence
- DNA profile to CODIS
- Report issued
- DNA "hit" occurs
- Hit report issued

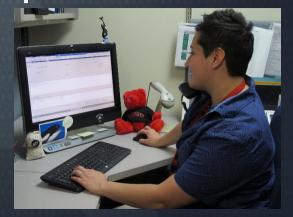
- Agency needs to get known standard
- Known standard submitted to Lab
- DNA profile from known standard
- Comparison to evidence
- Report issued

Suspect Standard Received

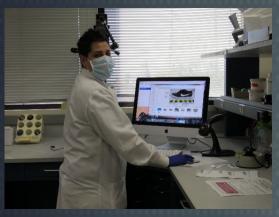
- Known standard and case evidence processed for DNA
- DNA profile from known standard and evidence
- Comparison to evidence
- Both DNA profiles to CODIS
- Report issued

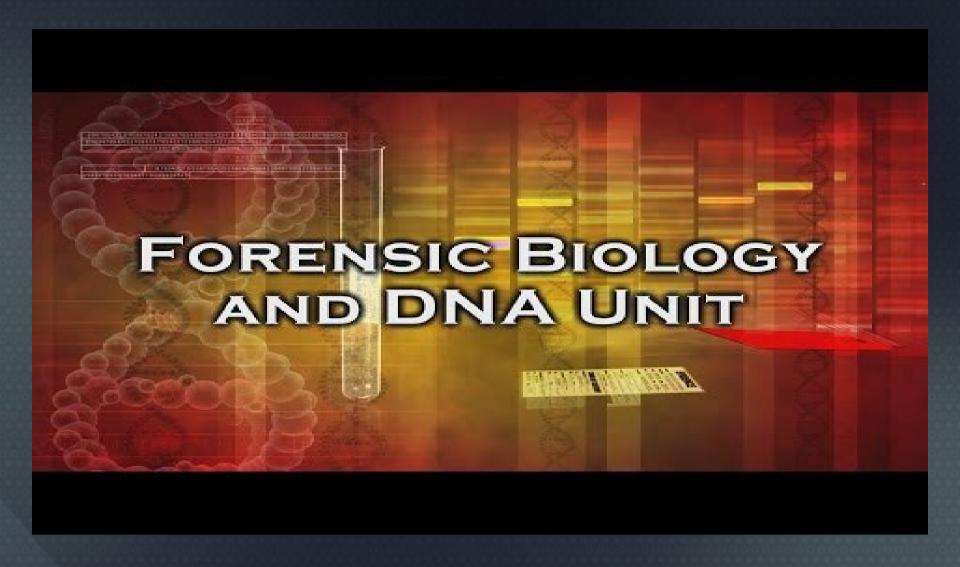
How Providing Supplemental Information Benefits You

- We can start work on your case faster
- We will not need to use up your time with phone calls/e-mails
- We will be spending more of our time working on your cases in the lab instead of making phone calls
- Helps to streamline overall lab workflow



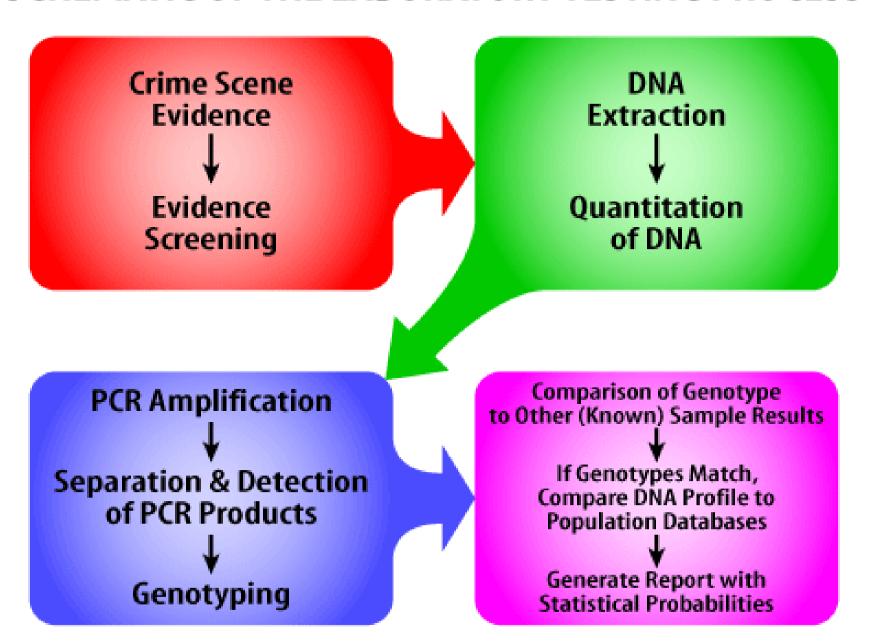






https://www.youtube.com/watch?v=kF6EGa8GpDo

SCHEMATIC OF THE LABORATORY TESTING PROCESS



AZDPS Central Regional Crime Lab DNA Workflow



Serology is always the first step towards DNA analysis



<u>Serologist</u>

- Reads all submitted information
- Contacts Detective if necessary
- Analyzes for possible blood, semen, saliva, touch DNA, etc.
- Retains cuttings, swabs, etc.
 for DNA Analyst
- May issue a report to submitting Detective/Officer
- In most cases action from you will be required



AZDPS Central Regional Crime Lab DNA Workflow



DNA Analyst

- Extracts DNA from cutting, swab, etc.
 retained by Serologist
- Potentially obtain a DNA profile(s) and enter into CODIS
- Interpret/compare DNA profile(s)
- Issue a report to submitting
 Detective/Officer

Note: Not all samples tested for DNA will yield usable results.

AZDPS Central Regional Crime Lab DNA Workflow

DNA Request (evidence submission) Agency Notification? Serologist Report DONE **DNA Analyst** Report DONE

Performance Objectives

- 1. Identify three sources of DNA
- Identify CODIS eligible/not CODIS eligible evidence given scenarios
- 3. Demonstrate how to collect DNA from various types of evidence
- 4. Demonstrate how to properly fill out the AZDPS DNA Supplemental Form





"I'll give you a topic"

- What did you want us to talk about that we didn't?
- CODIS questions?
- Questions about packaging/collection techniques?
- Case-specifics? What-ifs? Weird scenarios?
- Jellybeans contain neither jelly nor beans... discuss!

Please fill out your survey

AZDPS Crime Lab Main Line Phone Numbers

Central Regional Crime Lab (Phoenix)

Southern Regional Crime Lab (Tucson)

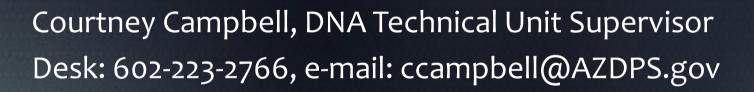
Northern Regional Crime Lab (Flagstaff)

602-223-2394

520-746-4575

928-773-3687







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Amy Gerow, DNA CODIS Unit Supervisor Desk: 602-271-7413, e-mail: agerow@AZDPS.gov

Questions about Rapid DNA?

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Rapid DNA Program Point of Contact

Desk: 602-223-2339

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Mark Smith, Technical Services Unit Supervisor

Rapid DNA Program Point of Contact

Desk: 602-223-2889

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