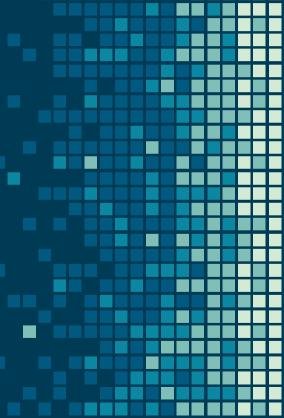
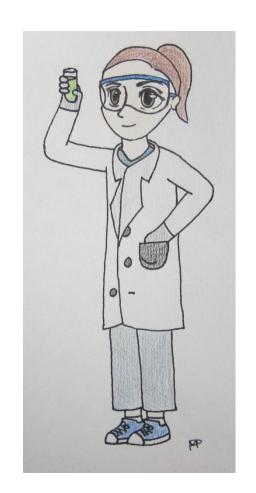
Arizona Department of Public Safety

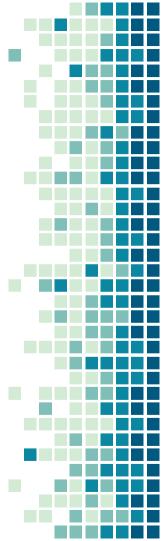
DNA Evidence Collection for Agencies



Today's Presenters

Your friendly, neighborhood Forensic Scientists







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????



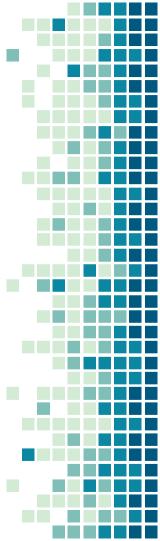


- We are here to start the conversation
 - Help us help you
- Please ask questions
 - Sticky notes



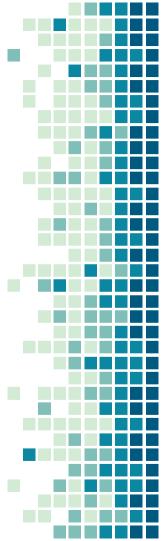
Housekeeping

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

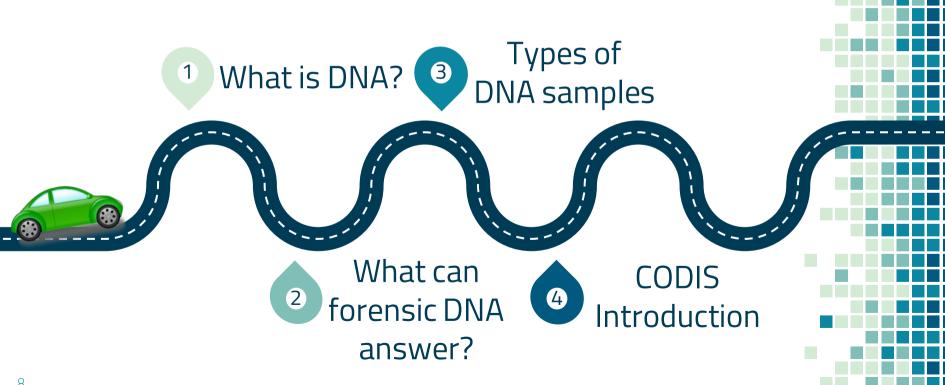


Disclaimer

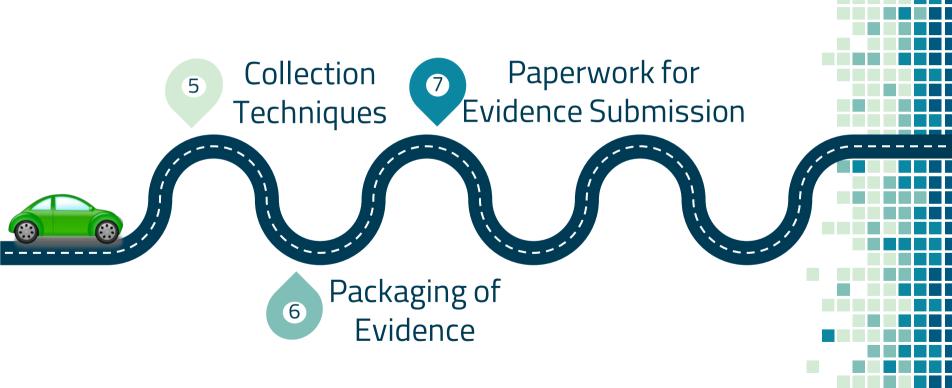
Please note: anyone from an agency that does not typically submit DNA evidence to the DPS laboratory system (i.e. Scottsdale PD, Phoenix PD, Mesa PD) be aware that this presentation will entail information that is specific to the AZDPS crime lab submission guidelines and requirements. Your crime lab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



Today's Topics



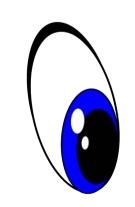
Today's Topics

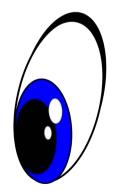


Performance Objectives

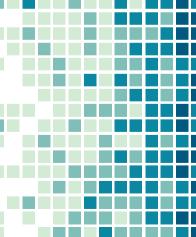
- Identify three sources of DNA
- Identify CODIS eligible/not CODIS eligible evidence given scenarios
- Demonstrate how to collect DNA from various types of evidence
- Demonstrate how to properly fill out the AZDPS DNA Supplemental Form

Let's take a look!

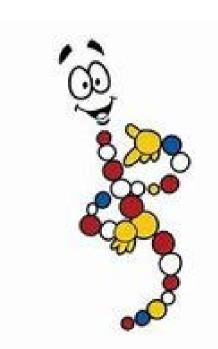








- DNA stands for Deoxyribonucleic Acid
- DNA is the genetic instructions inherited from a mother and father



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)



What is a DNA profile?

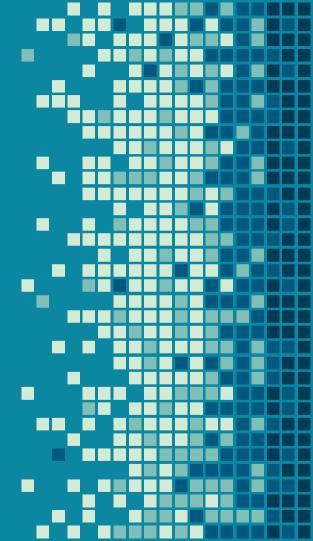
- A list of numbers that represent the length of small areas of your DNA
- We look at 23 areas of your DNA
- There are 2 numbers for each of the 23 areas (one from each parent)
- The list of these numbers is unique to you



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

Example of DNA Profile and comparison

Notice the two numbers at each location for the crime scene evidence



LOCUS	Crime Scene Evidence	Suspect 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	15,15
D16S539*	9,12	8,11
D18S51*	13,15	13,14
D2S1338	24,24	28,24
CSF1PO*	11,12	10 15
PENTA D	11,13	8 18
TH01*	8,9	ŢŢ
vWA*	14,18	8,11
D21S11*	22,22	21,23
D7S820*	11,12	10,16
D5S818*	7,12	19,21
TPOX*	8,12	12,12
D8S1179*	13,14	15,16
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

Example of DNA Profile and comparison

Is it a match to suspect 1?

LOCUS	Crime Scene Evidence	Suspect 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
PENTA E	14,28	14,28
D16S539*	9,12	9,12
D18S51*	13,15	13,15
D2S1338	24,24	24,24
CSF1PO*	11,12	11,12
PENTA D	11,13	11,13
TH01*	8,9	8,9
vWA*	14,18	14,18
D21S11*	22,22	22,22
D7S820*	11,12	11,12
D5S818*	7,12	7,12
TPOX*	8,12	8,12
D8S1179*	13,14	13,14
D12S391	28,28	28,28
D19S433	13,13	13,13
SE33	19,28.2	19,28.2
D22S1045	15,15	15,15
DYS391	9	9
FGA*	21,23	21,23
DYS576	19	19
DYS570	29	29

Example of DNA Profile and comparison

Is it a match to suspect 2?

YES!

What is a DNA profile?

- 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.



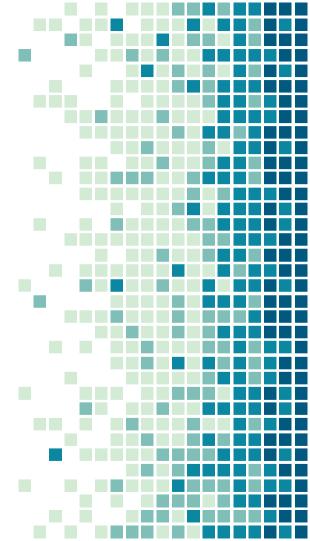
The uniqueness of a DNA profile can be likened to an address

DNA Rocks 5432 S. Helix Lane Genetics, AZ 85009



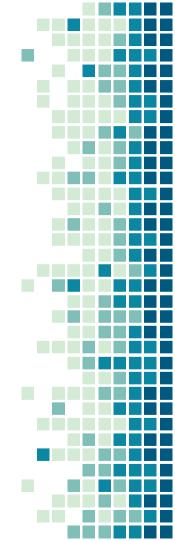
JAMES WATSON 1953 Crick Ave. Forensicland, AZ 83254

Let's explore DNA technology's helpfulness and limitations



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

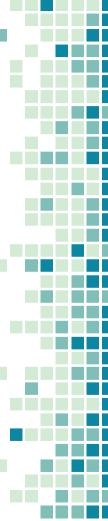
Understanding how DNA can help your investigation will help you apply this technology in the most effective manner.



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 suspects (utilizing CODIS 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 VICTIM** Suspect's knife has victim blood on it

Develop perpetrator from a Sex Assault Kit (SAK)

 Example: The DNA profile from victim's body matches the suspect



Familial questions (e.g. criminal paternity)

Example: Pregnancy resulting from a sexual assault or sexual contact with a minor



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 CAN'T 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 <u>CAN'T</u> 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" — National Geographic



What <u>CAN'T</u> Forensic DNA Answer?

Whether an item was **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 <u>CAN'T</u> Forensic DNA Answer?

Consent

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





Types of DNA Samples

Best explained as the good, the bad and the ugly

Types of DNA Samples

The "Good" - blood, saliva & semen

The "Bad" - trace/touch DNA

The "Ugly" - urine, feces & vomit



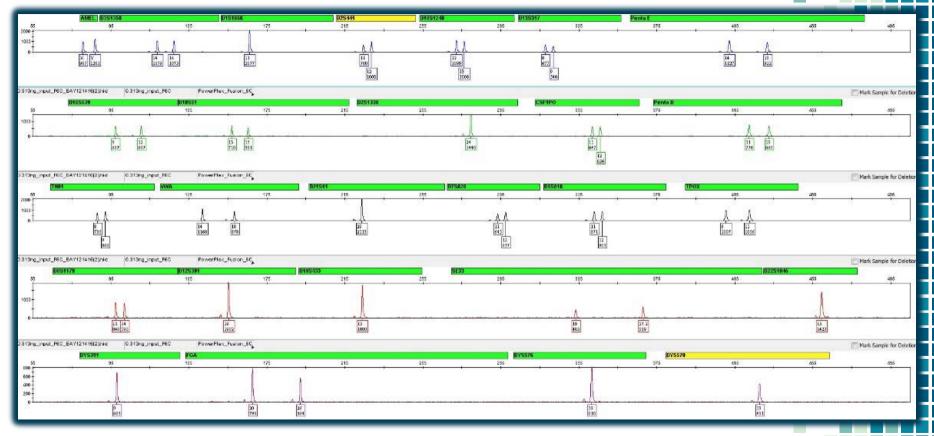
Types of DNA Samples



Blood, Saliva and Semen

- Usually very good sources for DNA
- Usually single source samples
- Usually need less sample to get results

Single Source DNA Profile



Each location usually has only one or two peaks

Types of DNA Samples

Better examples of "Good" DNA samples

- Blood Blood on broken window at point of entry
- Saliva Cigarette butt or water bottle
- Mucus Used tissue
- Semen Used condom

^{*}The condition, the amount, and other factors can affect the quality.

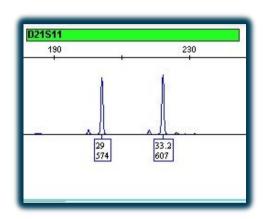
Types of DNA Samples



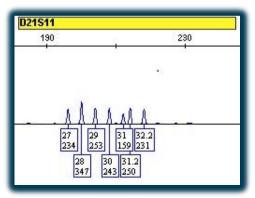
Trace/Touch DNA

- 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

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

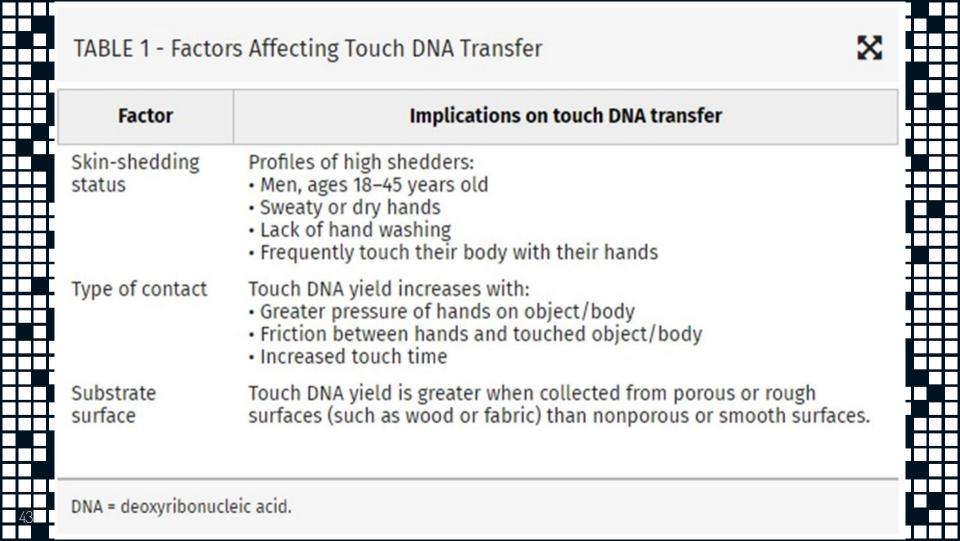
What Does A Mixture Look Like?



Types of DNA Samples – "The Bad"

- Touching a surface briefly usually leaves very little, if any, DNA
- There are many factors which effect how much DNA is left behind
 - Cleaning products do not necessarily remove DNA





Types of DNA Samples – "The Bad"

Better samples would be something handled/used over a long period of time such as

- Hat
- Cell phone
- Shirt
- Sunglasses



Types of DNA Samples – "The Bad"

Then there are "The REALLY Bad" samples

- Shell Casings
 - Last resort item
 - Cannot be a dual request item (must choose between LP and DNA)
 - Item only touched briefly
 - Undergoes extreme heat
 - Very small surface area



Types of DNA Samples



Urine, Feces, Vomit, etc.

- These are not routinely tested for DNA
 - Feces: freeze and swab outside
 - Vomit: swab
 - Urine: call the lab

Types of DNA Samples

Known Standards

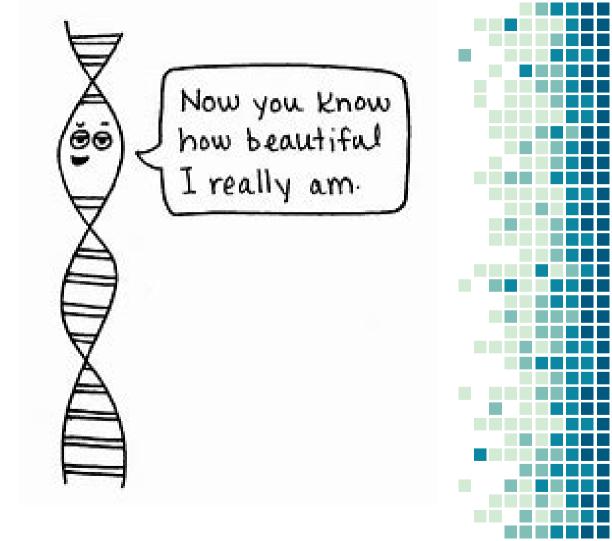
- A DNA sample from a known individual
- Commonly referred to as buccal swabs or elimination standards
 - Buccal = inner cheek of a person's mouth
- Blood or tissue (or bone) sample would also work
 - Need physical characteristics warrant to use blood draw for DNA typing

Review of Performance Objective 1

- Identify three sources of DNA
 - Blood
 - Saliva
 - Semen
 - Touch/Trace
 - Mucus



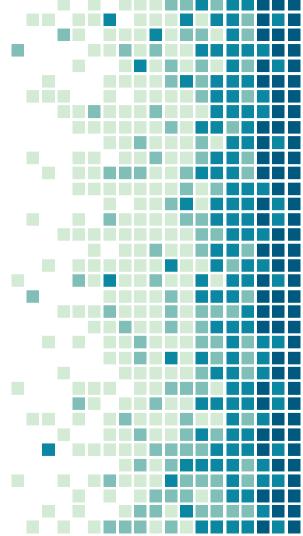
Short Break





CODIS Introduction

What is it and what can it do for your case?



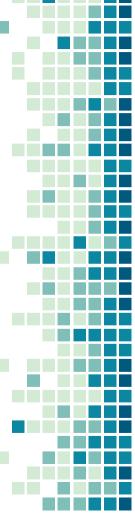
CODIS

Combined DNA Index System

National DNA Database

Helps provide investigative information by:

- Generating a suspect
- Linking suspects and/or cases nationwide



CODIS

3 Levels of Database

- National
- State
- Local

3 Categories of Indexes

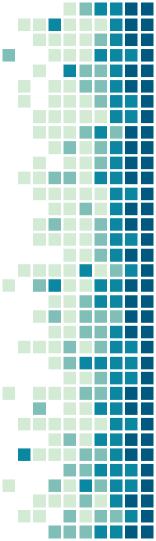
- Forensic DNA Profiles
- Convicted Offender DNA Profiles
- Unidentified Human Remains Profiles



CODIS: How Profiles Get into CODIS

Convicted Offender and Arrestee Samples

- Must be collected and submitted by law enforcement
- Mailed to the DNA Database Unit for processing (no chain of custody)



CODIS: How Profiles Get into CODIS

Forensic Samples

- DNA profiles obtained from the evidence
- DNA profiles obtained from suspect knowns
 - Must be identified as a suspect
 - Not an "investigative lead" or "person of interest"
 - Must be 18 years or older at the time of the alleged crime

CODIS: Searches

Forensic samples are searched against the database daily looking for possible matches

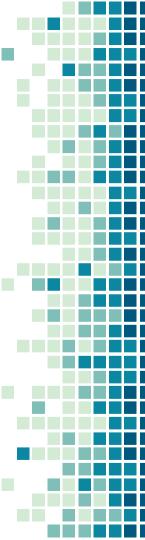
If a match occurs we call it a "hit"



CODIS: Types of CODIS Hits

Hit to a Person

- Name and identifying information provided
- In order to verify the match, a standard from that person must be collected and submitted by law enforcement (chain of custody)



CODIS: Types of CODIS Hits

Hits to Another Forensic Sample

- Indicates that both cases may have a common perpetrator
- Contact information provided to both detectives
- Follow-up would be between the two detectives
- If there is a suspect name associated with either case, this would also be provided on the report

- Not all DNA profiles that are obtained from evidence are eligible to enter into CODIS
- CODIS is managed by the FBI and they have rules that we must follow



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

- Was a crime committed?
- Was the DNA profile developed from crime scene evidence?
- Is the DNA profile from the perpetrator?
- Was the evidence collected from the suspect's possession?



Was a crime committed?

 Not being prosecuted versus unfounded



Was the DNA developed from crime scene evidence?

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



Is the DNA from the perpetrator?

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



Is the DNA from the perpetrator?



 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)

Is the DNA from the perpetrator?



- Did the victim deny ownership of the item?
- Can anyone confirm that the item was <u>not</u> present prior to the crime?
 - Did the victim state that the item or bodily fluid wasn't present prior to the incident?

 Ex. A cigarette butt found inside a burglarized residence. Owners stated, "we do not smoke. This cigarette butt isn't ours." Ex. Red/brown staining (blood) located on a broken window glass at the point of entry. Owners stated, "the glass was not broken, and the blood was not present prior."



Is the DNA from the perpetrator?



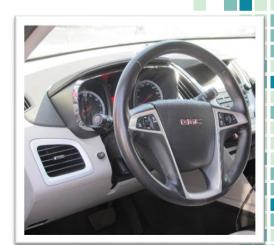
 Does the item belong to the victim, but is believed to have suspect DNA on it?

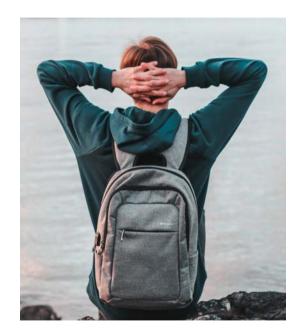




Don't forget to collect known standards!

- Vehicle swabs All drivers of the vehicle
- Firearm Anyone who uses the firearm
- Consensual sex/intimate partner(s)
- Victim(s)





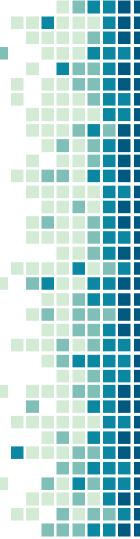
Was the evidence seized or collected from the suspect's possession?

Not CODIS eligible



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?



If 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?



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.

No

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



CODIS: Eligibility Scenario 4

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.

No

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



CODIS: Eligibility Scenario 5

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...

CODIS: Eligibility Scenario 5

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?



CODIS: Eligibility Scenario 6 (Extra Credit)

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?



CODIS: Eligibility Scenario 6 (Extra Credit)

NOT NECESSARILY

- Finding his DNA on the gun doesn't absolutely prove that he handled it (i.e. sneezing/saliva or 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

CODIS: Eligibility

Reasons a profile may not be 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: Closing Thoughts

CODIS is just an investigative tool

- DNA could still be informative on an item that is not CODIS eligible
 - Example: Victim blood on suspect's clothing
- Direct comparisons are possible with receipt of known standards



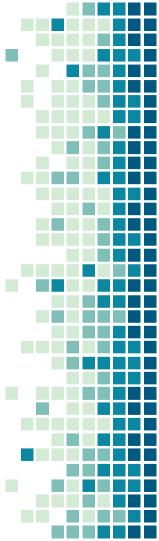
CODIS: Closing Thoughts

CODIS is just an investigative tool

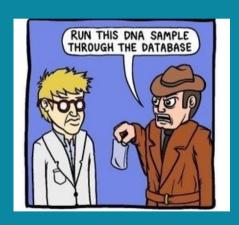
- If an item of evidence is not CODIS eligible and no standards are available for comparison, the profile provides no useful information for your case
 - In this circumstance those evidence samples will not be worked

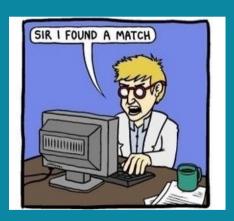
Review of Performance Objective 2

- Identify CODIS eligible/not CODIS eligible evidence given scenarios
 - Any questions? Or actual case examples?



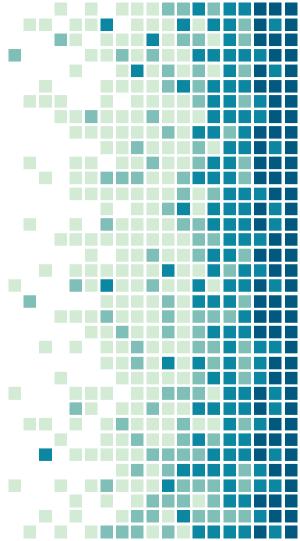
Let's take a break







Let's get practical!



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.



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

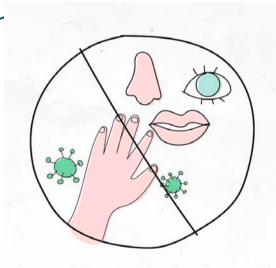
Avoid touching the area where you believe DNA may be present



 Avoid coughing, sneezing or talking over the evidence (even if you're wearing a mask).

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

Avoid touching your face, nose and mouth while collecting evidence.



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

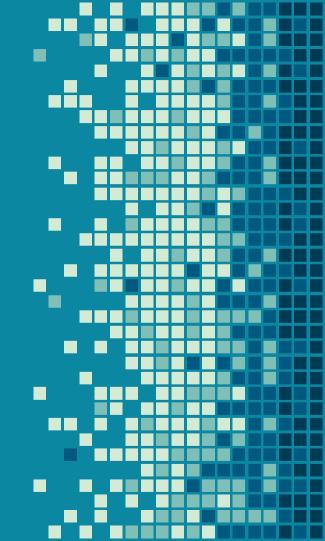
Air-dry
evidence
thoroughly
before
packaging

Put evidence in new paper packaging. Avoid plastic



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 scene

Items of evidentiary value

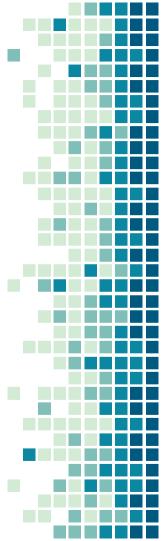
Items processed by lab



General recommendation:

Do not use more than two swabs when sampling an item

Some DNA is always left behind on swab



Collection Techniques: Blood

Large bloodstains on hard surfaces

- Use one to two swabs
- Saturate swab(s)

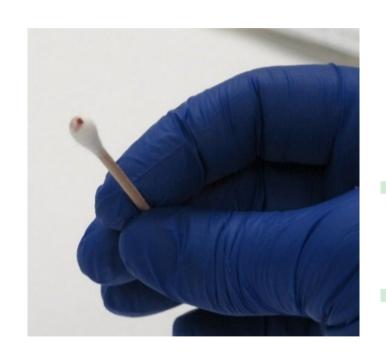




Collection Techniques: Blood

Small bloodstains on hard surfaces

- Use one slightly wet swab
 - Concentrate stain on tip of swab





Collection Techniques: Blood

Bloodstains on clothing, bedding or easily packaged items

- Send to us for testing
- Option for large items (bedding, couches, mattresses):
 - Cut out stained areas and send to us (document or photograph evidence before cutting)

Collection Techniques: Saliva/Trace DNA

Send in small, easily packaged items (bottles, cans, cigarette butts, tools, etc.) and we will swab Swab item yourself

- Concentrate sample on no more than **two** wet swabs
 - Swab vigorously!

Collection Techniques: Saliva/Trace DNA

Saliva

 Focus on swabbing area where mouth touched



Trace

Focus on swabbing area where item was touched/handled

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

Collection Techniques: Trace DNA

If your agency swabs shell casing(s):

- Never use more than one wet swab per casing
- Use least number of swabs to swab casings fired from the same firearm (1-2 swabs total)
- Casings from different crime scenes or different areas of a large scene should not be swabbed together



Collection Techniques: Trace DNA

If your agency sends casing(s) to Lab:

- Provide information about what caliber the casings are, and location found
- Package casings in small or folded envelope to prevent excessive movement

Collection Techniques: Trace DNA

Vehicle swabs

- Up to 2 swabs of entire steering wheel
- Up to 2 swabs of gear shift knob/handle
- Door swabs can be collected, however the lab will not routinely process these

Note: swab steering wheel and gear shift separately and submit as separate items



Collection Techniques: Trace/Touch Submission Guidelines

- DNA analysis of touch-DNA evidence will be limited to items that are **foreign** to the crime scene (presumably left by perpetrator)
- Steering wheel and gear shift will be processed when foreign items not available
- Swabs of surfaces or items of evidence which are routinely touched/handled by multiple individuals will not be processed for DNA

Collection Techniques: Known Standards

- Most common known standard is the buccal swab
 - When collecting buccal swabs, take 2 swabs of the inner cheek
 - Typically, only ½ of a swab is taken forward for DNA, so 2 swabs is plenty!
 - Please ensure that buccal swabs are labeled with person's name and name is spelled correctly

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



Example of a dual request

- Polar pop cup and straw
 - Your agency wants to process the item for latent prints, but would also want the straw sampled for DNA

What should you do?



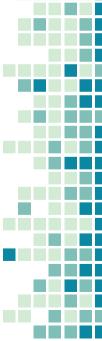
Polar pop cup and straw

- Submit the entire item, and request both latent print analysis and DNA OR
- Swab straw first, submit swab for DNA analysis OR
- Take out straw, submit straw for DNA analysis

Overall, samples for DNA must be taken/preserved prior to latent print analysis

Why do we require DNA first?

- The procedures for latent print processing do not typically use clean techniques
- Same brushes/powders used on multiple items
- Proper PPE (masks/gloves) may not be worn
- Black/magnetic powders may interfere with the DNA analysis process



Collection Techniques: Collection Practicum Activity

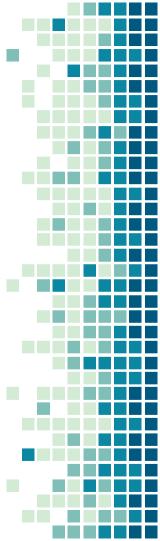
Activity will include:

- Blood collection
- Saliva/Trace collection
- Buccal swab collection
- Instructions for each activity are provided
- Use information from presentation to aid in collection process



Review of Performance Objective 3

- Demonstrate how to collect DNA from various types of evidence
 - Any questions about collection activity?
 - Any odd items you want to discuss?

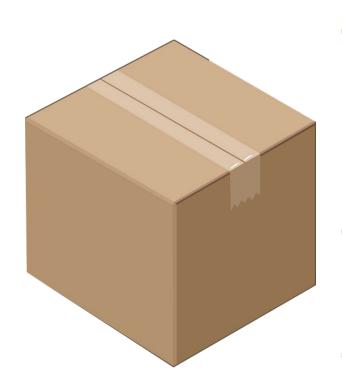




Packaging of Evidence

Let it dry! Let it dry! Can't let moisture win anymore!

Packaging of Evidence: Components



- Appropriate packaging material
 - Envelope
 - Paper bag (inner pkg only)
 - Cardboard or swab box
- Required markings
 - Item #
 - DPS DR # and Agency #
- Correctly spelled names

^{*}Note: Outer package must be envelope or cardboard box for DPS P&E to accept the evidence

Packaging of Evidence: Components

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

- <u>Dry</u> 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
- Freeze food items and diapers to prevent mold and bacterial growth



Packaging of Evidence: Storytime

Bottle with sunflower seed shells

- Recovered stolen vehicle case
- Bottle with wet sunflower seed shells left behind in vehicle by perpetrator
- Packaged in sealed plastic bag
- Black powder-like substance noted all over item and on inside of plastic bag (LP powder?)

Packaging of Evidence: Storytime

Bottle with sunflower seed shells

- Mouth area of bottle was swabbed for DNA
- No DNA profile was obtained but observed data indicated possible mold (black mold on item?)



Packaging of Evidence: Storytime

Bottle with sunflower seed shells

- How should this item have been packaged?
 - Item dried out (in or out of water bottle)
 - Manilla envelope or cardboard box



Packaging of Evidence: Don'ts

- If possible, package each item separately
- Do not over package (please!)
 - No clown car packaging
 - Example: a box with a bag of trash submitted as one item
- Don't form fit packaging with tape around the item



Packaging of Evidence: Don'ts



Examples of form fitting packaging

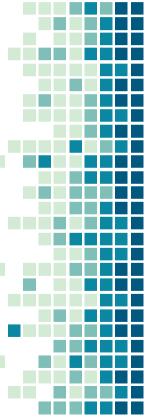




Packaging of Evidence: Don'ts

No Russian doll packaging (over-packaging)





Known Standards

- Except for sex assault and biological standards kits, all known standards should be submitted in a package separate from crime scene evidence
 - Do not remove samples from the Sexual
 Assault Kit submit it intact

Known Standards

 Package buccal swabs in a swab box and put box in only one large outer manila envelope

 Submit known DNA standards as a single item, at the same time crime scene evidence is

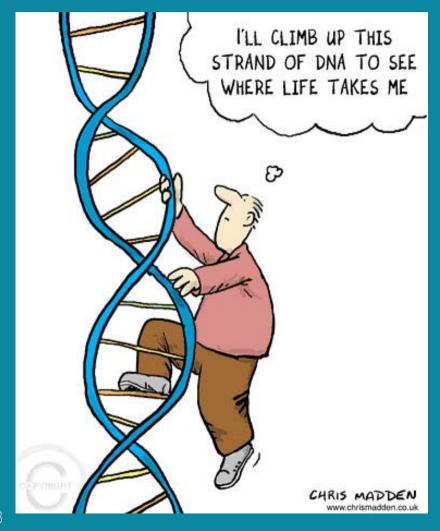
submitted to the lab



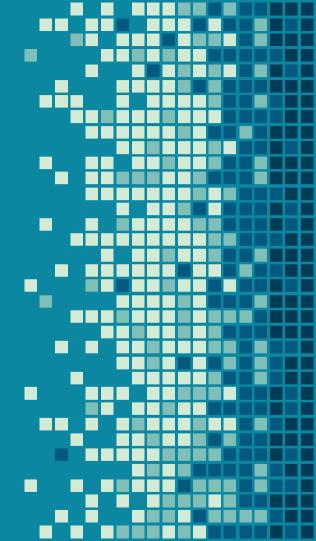
Packaging Handout

- Take the next 5-7 minutes to complete packaging handout
- Discuss the scenarios with your classmates
- We'll come back together as a class to discuss scenarios and answer any questions





Short Break

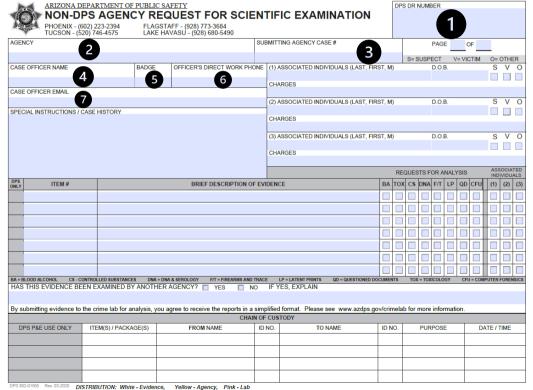


"You didn't file your paperwork last night."

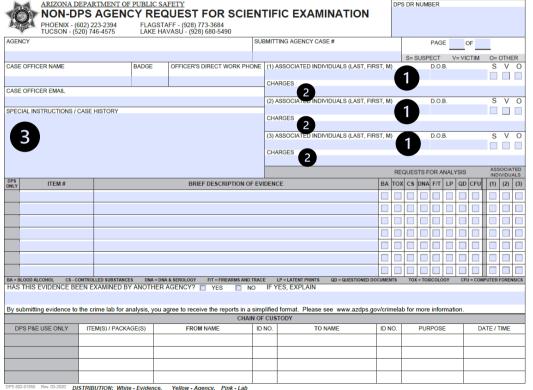
"Oh, that darn paperwork. Wouldn't it
be easier if it all just blew away"



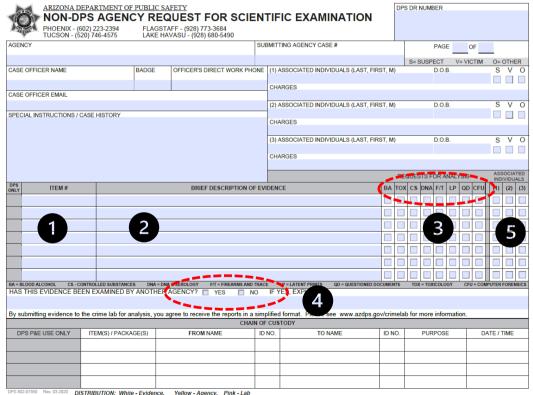
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- 1. DPS DR#
- 2. Your Agency
- 3. Agency #
- 4. Case officer/
 Detective
- 5. Badge #
- 6. Direct phone number
- 7. Direct email address



- Associated individuals
- 2. Charge(s)
- 3. Special Instructions box/Case history



- 1. Item number
- 2. Description of evidence
- Type of testing requested
- 4. Has this evidence been examined by another agency?
- Associated individuals

Things to 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.
 - "Every spray is a wash away"
 - Collect as much of the stain as possible on least number of swabs

Paperwork for Evidence Submission: DNA Supplemental Form

Arizona Department of Public Safety Crime Laboratory **DNA** Submission Supplement DISCLAIMER; By submitting the case evidence to the Arizona Department of Public Safety Crime Laboratory, you are authorizing the Laboratory to consume samples for DNA testing as necessary, based on their knowledge and experience. Information about our acceptance policies can be found here: www.AZDPS.gov/organization/TSD/scientific-analysis/dna#casework All questions must be answered in some manner. Lack of information or incomplete answers will result in the delay of analysis. Prosecutor & Trial Date: Agency Case Number: DPS DR Number: 1. Describe what happened in this case (or attach a case summary): Y N Was the item(s) located in an area accessible to the public (e.g., sidewalk, front yard, parking lot)? If YES, please contact the Laboratory before submission. Was the item(s) left behind by the perpetrator? If YES, list the item # here Does the item(s) belong to the victim? If YES, list the item # here: Was the item(s) present at the crime scene before the crime was 2. Identify the 5 most probative crime scene items and what is believed to be the committed? If YES, list the item # here: source of DNA for each? (Please include item #'s) 10. Was the item(s) taken directly from the suspect or from something Semen belonging to the suspect (e.g., backpack, car, etc.)? If YES, please contact the Laboratory before submission. 11. Has the item(s) ever been handled by someone other than the perpetrator (e.g., owner/victim/all drivers)? 3. How does each of the above item(s) relate to the crime, and where was it found? 12. If O.11 answer is YES, have you obtained an elimination DNA standard from each person/every driver? These must be submitted under the same DPS DR number. 13. For sexual assault cases, was a sexual assault kit collected? If so, the laboratory requires submission of this prior to other evidence. 14. For sexual assault cases, have you obtained an elimination DNA standard 4. If blood was present at the scene, how many people were bleeding? from any consensual sex partners (CSPs)? These must be submitted under the same DPS DR number. 5. Is there any additional important information that the laboratory needs to know 15. If elimination DNA standards (owner/victim/CSP/all drivers) have not been obtained, (e.g., victim & perpetrator live together)? explain why. ALL KNOWN DNA STANDARDS MUST BE SUBMITTED IN A SEPARATE ENVELOPE UNDER THE SAME DPS DR NUMBER. Evidence origin information is required by the FBI to determine CODIS eligibility requirements. Form Effective: 8/2023

DNA Supplemental Form

- Case information/synopsis
 - Please be detailed and specific
 - Keep in mind what specifics will help answer
 CODIS eligibility questions



DNA Supplemental Form

- This and other forms/information are available on our website (a great resource!)
 - https://www.azdps.gov/organization/TSD/s
 cientific-analysis/dna#casework
 - OR
 - https://www.azdps.gov/crimelab
- Please use the most updated form (landscape)





Services V

Department Information >

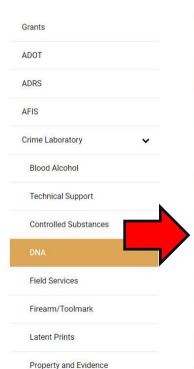
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DEPARTMENT OF PUBLIC SAFETY

Services / Governmental Services / Scientific Analysis Bureau / DNA Scientific Services



DNA



DNA Casework

The Scientific Analysis Bureau provides serology and forensic DNA analysis using the most modern DNA scientific services for the examination of crime evidence to identify or exonerate individuals. Forensic DNA analysis involves testing of biological samples left at a scene to determine a DNA profile which can then be compared to the known profile of an individual or entered into the Combined DNA Index System (CODIS), a national database of

Case Acceptance Guidelines

All cases submitted for DNA analysis require the DNA Supplemental Form to be filled out. The information is needed to determine CODIS eligibility and allow the lab to focus on the most crucial evidence for every case and provide a quicker turnaround time for all customers.

DNA Supplemental Form

Permission to consume samples for testing is considered granted at the time of submission. While every effort will be made to preserve samples for future testing, consumption will occur at the discretion of the analyst. For cases involving death or attempted homicide, permission to consume will only be requested if a suspect is named at the time of submission.

Types of Evidence



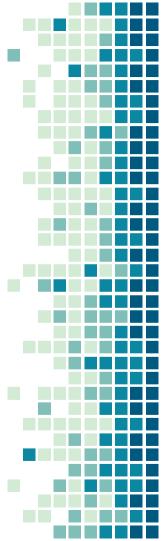
Why we ask for supplemental information

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



Why we ask for supplemental information

- Determine required standards
- Determine CODIS eligibility
- Streamlines overall lab workflow



DNA Supplemental Form Exercise

- Using the scenario provided on the handout, please fill out a DNA Supplemental Form
- Fill out properly, as we will review the exercise as a group





Arizona Department of Public Safety Crime Laboratory

ANSWER KEY

DNA Submission Supplement

DISCLAIMER: By submitting the case evidence to the Arizona Department of Public Safety Crime Laboratory, you are authorizing the Laboratory to consume samples for DNA testing as necessary, based on their knowledge and experience.

Information about our acceptance policies can be found here: www.AZDPS.gov/organization/TSD/scientific-analysis/dna#casework

rosecutor & Tria	Date: Agency Case Number: 1		DPS DR Number: 1					
1. Describe who	t happened in this case (or attach a case summary):			Y N				
-Tammy and	vers should include: Holly stabbed (sisters) sidered a suspect	6.	Was the item(s) located in an area accessible to the public (e.g., sidewalk, front yard, parking lot)? #1 knife (located by scent dog) If YES, please contact the Laboratory before submission.	00				
		7.	Was the item(s) left behind by the perpetrator? If YES, list the item # here: Item 1 (knife)	0				
See case synopsis		8.	Does the item(s) belong to the victim? If YES, list the item # here: Discuss knife from residence (Tim used before? Trace DNA probative?)	0				
	most probative crime scene items and what is believed to be the A for each? (Please include item #'s)	9.	Was the item(s) present at the crime scene before the crime was committed? If YES, list the item # here: Item 1 - see above; discuss probative value of trace DNA on item	00				
Blood	1, 2, 5	10.	Was the item(s) taken directly from the suspect or from something	00				
Semen			belonging to the suspect (e.g., backpack, car, etc.)? Item 5 (Tim's shirt)	\odot				
Saliva		11.	If YES, please contact the Laboratory before submission. Has the item(s) ever been handled by someone other than the perpetrator	00				
Touch/Trace	3	****	(e.g., owner/victim/all drivers)? Item 1(knife) and 3 (door knob swab					
Knife (1) beleive Timothy. Shirt (2	ch of the above item(s) relate to the crime, and where was it found? d to be weapon involved. Located by scent dogs in flight path of c) from Tammy. Shirt (5) from Timothy's person. Both shirts	12.	If Q.11 answer is YES, have you obtained an elimination DNA standard from each person/every driver? These must be submitted under the same DPS DR number.	00				
	orn at time of incident. Swab (3) collected from front door knob that Timothy would have touched to leave the residence.	13.	For sexual assault cases, was a sexual assault kit collected? If so, the laboratory requires submission of this prior to other evidence.	0				
4. If blood was Tammy - victim that Holly - victim that wa		14.	For sexual assault cases, have you obtained an elimination DNA standard from any consensual sex partners (CSPs)? These must be submitted under the same DPS DR number: N/A	0				
5. Is there any a	dditional important information that the laboratory needs to know & perpetrator live together)?	15.	If elimination DNA standards (owner/victim/CSP/all drivers) have not been explain why.	obtain				
Timothy previoccured.	ously lived in the residence where the incident		ed standards from Tammy, Holly and Timothy iterate that CODIS samples cannot be used for suspect kr	owns				

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ARIZONA DEPARTMENT OF PUBLIC SAFETY

DPS DR NUMBER

PHOENIX - (602) 223-2394 TUCSON - (520) 746-4575 LAKE HAVASU - (928) 680-5490											1									
AGENCY						MITTING AGENC	Т	PAGE OF												
Forensicland PD					1	1					S= SUSPECT V= VICTIN						M O= OTHER			
CASE OFF	TICER NAME		HONE	(1) ASSOCIATED)	D.O.B. 01/16/1982						s v o								
CASE OFFICER EMAIL getthem@forensicland.gov special instructions / CASE HISTORY See attached Summary/Supplemental						(2) ASSOCIATED INDIVIDUALS (LAST, FIRST, M) Holly Roberts CHARGES (3) ASSOCIATED INDIVIDUALS (LAST, FIRST, M) Timothy Johnson CHARGES					D.O.B. 07/21/1978						0			
											D.O.B. 12/03/1980					V				
								REQUESTS FOR ANALYSIS						ASSOCIATED INDIVIDUALS						
DPS ONLY	ITEM#			BRIEF DESCRIPTION	OF EVI	DENCE	1. Apr. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	BA	TOX	CS DI	-	/T LP	QD	CFU	(1)	-	(3)			
6,724	1			Knife (weapon used	durin	g assault)		14					11	닠	V	V	븨			
OLLY.	5			Shirt worn by Time	othy J	ohnson		1	닏					ᆜ	냳	븯	Z			
	6			Known standard from	Tamn	ny Johnson		\perp	Ш					믜	~	븯	늬			
	7			Known standard fron	n Holl	ly Roberts					4			Ш	Ш	~	Ш			
	8			Known standard from	Timot	thy Johnson					<u> </u>					믜	~			
1-21																				
507																				
N/A	S EVIDENCE BE	ONTROLLED SUBSTANCES EN EXAMINED BY the crime lab for an	ANOTHER	agree to receive the reports in	NO a simp	IF YES, EXPL	AIN			o for mo				J = COM	PUTER	FOREN	HCS			
					-	NO.	TO NAME	T ID I	NO. PURPOSE					D	DATE / TIME					
DPS P	&E USE ONLY	ITEM(S) / PACKA	GE(2)	FROM NAME		NO.	I NAME													

Review of Performance Objective 4

- Demonstrate how to properly fill out the AZDPS DNA Supplemental Form
 - Any questions? Let's review some tips and tricks



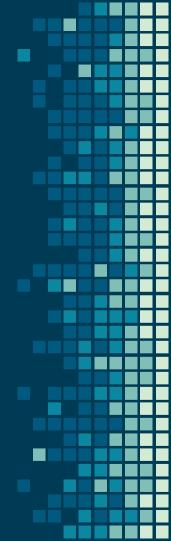
Supplemental Form Tips and Tricks

- Let us know if there are multiple suspects (we will work an additional item)
- List if there are consensual sex partner(s) (CSP)
 - Also consider intimate touching (e.g. breastfeeding mother or kissing)
- If a suspect standard cannot be obtained, please note this on either form

Supplemental Form Tips and Tricks

- Questions 6, 7 and 8 add item numbers as applicable
- Answer questions 2-11 with crime scene items in mind, not necessarily known standards
- If known driver standards are submitted, please indicate to us that these are "all of the known drivers"

How will you know if you filled out your paperwork properly or if you missed something???



Evidence Submission Outcomes

You will receive one (or more) of these reports:

- Agency Withdrawal Notification
 - We are missing information/standards
- Agency Withdrawal Report
 - We received no reply to notification
- DNA Report (with any serology results)
 - We had all necessary information/standards and worked your case



Agency Withdrawal Notification

- An effort to obtain standards and/or CODIS eligibility information
- Cases missing information will be issued this report
- Case analysis is on hold for 30 days. After 30 days, if we receive no response, evidence is returned to agency.



ARIZONA DEPARTMENT OF PUBLIC SAFETY

SCIENTIFIC EXAMINATION REPORT

Page 1 of 1

AGENCY

AGENCY NO.
OFFICER
DATE

DATE May 11, 2023 NAME(S)

EXAMINATION REQUESTED:

DNA

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

- Additional information on how the evidence is related to the crime/crime scene as required for entry into the CODIS database
- . Elimination standards from all known drivers of the vehicle

If the requested information is not received within 30 days of the date on this report, the request for analysis will be withdrawn and the evidence returned. The request date for testing of the evidence will originate when all components required for testing are received by the laboratory. The DNA Supervising Forensic Scientist can be reached at 602-223-2394.

Hu Out Japan

KALEEMA HAWKINS, #10593, Forensic Scientist Central Regional Crime Laboratory 2102 W. Encanto Blvd., Phoenix, AZ 85009 (602) 223-2394 khawkins2@azdps.gov

Accordined by the ASN National Accordination Board (ANAB) as a testing laboratory to ISO/IEC 1703 Standards Any notes, photographs, clars, or graphs generated design the examination are entitined in the laboratory. Unless otherwise denoted, all evidence will be returned to the submitting agency. For additional information regarding laboratory policies visit www.anabaps.gov/crindals.

Agency Withdrawal

- We received no response to notification and evidence is returned to agency
- Re-submission is possible with required information/standards



ARIZONA DEPARTMENT OF PUBLIC SAFETY

SCIENTIFIC EXAMINATION REPORT

Page 1 of 1



AGENCY

AGENCY NO.

OFFICER
DATE June 12, 2023

NAME(S)

EXAMINATION REQUESTED

DNA

RESULTS / INTERPRETATIONS

A notice was sent to you at least 30 days ago indicating that additional information and standards are needed in order to process your evidence for DNA. As of the date on this report, the laboratory has not received the required information; therefore, the evidence is being returned to your agency and the request for analysis is being withdrawn at this time. If the evidence in this case still needs to be processed, you must contact the DNA Supervising Forensic Scientist at (602) 233,3304.

He Deef Jag Denn

KALEEMA HAWKINS, #10593, Forensic Scientist Central Regional Crime Laboratory 2102 W. Encanto Blvd., Phoenix, AZ 85009 (602) 223-2394 khawkins2@azdps.gov

Accredited by the ANSI National Accreditation Board (ANAB) as a testing laboratory to ISO/IEC 17025 Standards
Any noise, photographs, charts, or graphs generated during the examination are retained in the laboratory. Unless otherwise
denoted, all evidence will be returned to the submitting agency. For additional information regarding laboratory policies visit
www.adas.eso/iernleab

DNA Report

- This means we worked the case and had all the required information/standards.
- Includes serology and DNA results



ARIZONA DEPARTMENT OF PUBLIC SAFETY

SCIENTIFIC EXAMINATION REPORT

ACENCY

Page 1 of 1

AGENCY NO.

OFFICER

DATE

May 11, 2023

NAME(S)

EXAMINATION REQUESTED

DNA and Serology

RESULTS/INTERPRETATIONS

One swab from placard A

Blood: Positive

An STR DNA profile was obtained. This unidentified profile was entered into CODIS

NOTES

- Portions of all items referenced above have been retained in laboratory storage.
- STR profiles were produced using the PowerPlex Fusion 6C PCR Amplification Kit.
- The results for blood are from preliminary testing.
- CODIS searches will be routinely performed and any future matches will be reported.
- The DNA unit employs a team-based approach to casework analysis; therefore, portions of the analytical work in this case may have been performed by someone other than the analyst who signed this report.

Darah Lafragola

SARAH LAFRAGOLA, #7517, Forensic Scientist Central Regional Crime Laboratory 2102 W. Encanto Blvd., Phoenix, AZ 85009 602-223-2668 slafragola@azdus.gov

Accredited by the ANSI National Accreditation Board (ANAB) as a testing laboratory to ISO/IEC 17025 Standards
Ainy notes, photographs, charts, or graphs generated during the examination are retained in the laboratory. Unless otherwise
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www.asdps.gov/crinelab

Performance Objectives

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



A&Q

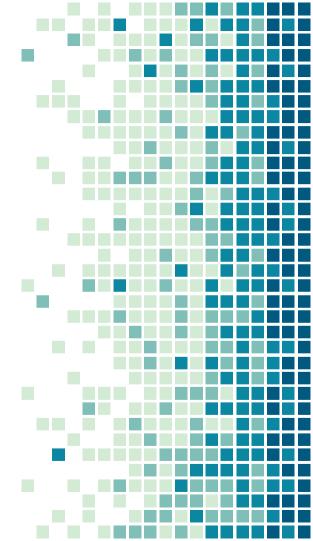




- What did you want us to talk about that we didn't?
- CODIS questions?
- Questions about packaging/collection techniques?
- Case-specifics? What-ifs? Weird scenarios?
- Jellybeans contain neither jelly nor beans...discuss!

Please fill out your survey

Turn in to receive your POST credit paperwork



AZDPS Crime Lab Main Line Phone Numbers

- Phoenix (Central Regional Crime Lab)
 - 602-223-2394
- Tucson (Southern Regional Crime Lab)
 - 520-746-4575
- Flagstaff (Northern Regional Crime Lab)
 - 928-773-3687

Supervisor Contact Information (Phoenix Lab)



Courtney Campbell, DNA Technical Unit Supervisor, CRCL Desk: 602-223-2766, e-mail: ccampbell@AZDPS.gov



Kelli Raley, DNA Casework Unit Supervisor, CRCL Desk: 602-223-2842, e-mail: kraley@AZDPS.gov



Stefanie Percy-Fine, Serology Unit Supervisor, CRCL Desk: 602-223-2701, e-mail: spercy-fine@AZDPS.gov

Supervisor Contact Information (Phoenix Lab)



Kathi Troyer, DNA CODIS/Database Unit Supervisor, CRCL Desk: 602-223-2865, e-mail: ktroyer@AZDPS.gov



Amy Gerow, Familial/FIGG Unit Supervisor, CRCL Desk: 602-271-7413, e-mail: agerow@AZDPS.gov

Supervisor Contact Information (Tucson and Flagstaff labs)

Veronica Chamberlain, Supervisor, SRCL (Tucson)

DNA Unit Point of Contact

Desk: 520-746-4203, e-mail: vchamberlain@AZDPS.gov

Joey Fimbres, Supervisor, SRCL (Tucson)

Serology Point of Contact

Desk: 520-746-4578, e-mail: jfimbres@AZDPS.gov

Kortney Snider, Supervisor, NRCL (Flagstaff)

DNA/Serology Unit Point of Contact

Desk: 928-773-3641, e-mail: ksnider@AZDPS.gov

Questions about Rapid DNA?

Mark Smith

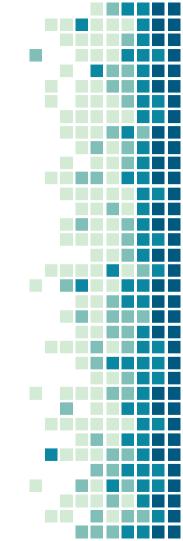
Rapid DNA Supervisor

Rapid DNA Program Point of

Contact

Desk: 602-223-2889

e-mail: msmith@AZDPS.gov



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Slide 31 - By Jane J. Lee, National Geographic, June 27, 2013
Slide 43 (Table 1) - Valentine J., Presler-Jur P., Mills H., Miles S. (2021). Evidence Collection and Analysis for Touch Deoxyribonucleic Acid in Groping and Sexual Assault Cases. Journal of Forensic Nursing, vol 17, no. 2, April–June

Slide 97 - Renata Dziak, M.Sc.; Amy Peneder, H.B.Sc.; Alicia Buetter, H.B.Sc.; and Cecilia Hageman, Ph.D. Trace DNA Sampling Success from Evidence Items Commonly Encountered in Forensic Casework. J Forensic Sci, May 2018, Vol. 63, No. 3.

