# Cybergenetics

# March Newsletter

*Better Justice Through Better Science* ™

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# *Cybergenetics News*

## *Continuing Legacy Data Capabilities*

For decades, investigators have collected DNA items never used to solve a crime. The laboratory processed degraded or mixed samples, but couldn't interpret their complex data. This is the "legacy data" of failed DNA analysis, with unused evidence in hundreds of thousands of cases. Legacy data failure has blocked DNA evidence, frozen cases, thwarted due process of law, and locked innocent people behind bars. But Cybergenetics' powerful pioneering TrueAllele® technology changes the game.

Unlike failed government genotyping software, proprietary TrueAllele actively unlocks legacy DNA. The computer extracts informative and reliable genetic identity from traditionally "inconclusive" samples. TrueAllele can revive old forensic data—regardless of laboratory, chemistry or sequencer—with modern mathematical precision. Using TrueAllele, society solves cold cases, identifies criminals, reopens investigations, and frees the innocent.

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# *Case Highlights*

## *Pennsylvania v. Raphael Perez-Rodriguez*

In 2020, Air Force veteran Dennis Fink was murdered in his Pennsylvania home. Investigators recovered knives with DNA evidence, but traditional DNA data analysis couldn't identify a clear suspect. Cold cases can grind to a halt without forensic evidence, so TrueAllele changes the game.

In the Fink murder, DNA experts struggled to untangle mixed DNA from the crime scene. But advanced TrueAllele technology cut through the complexity, identifying Raphael Perez-Rodriguez as the perpetrator. TrueAllele unlocked the full potential of legacy DNA data, delivering the crucial evidence that failed methods could not.

Read about *Pennsylvania v. Perez-Rodriguez* – the murder, the knife evidence, the trial, and the verdict - on [Cybergenetics website](#).
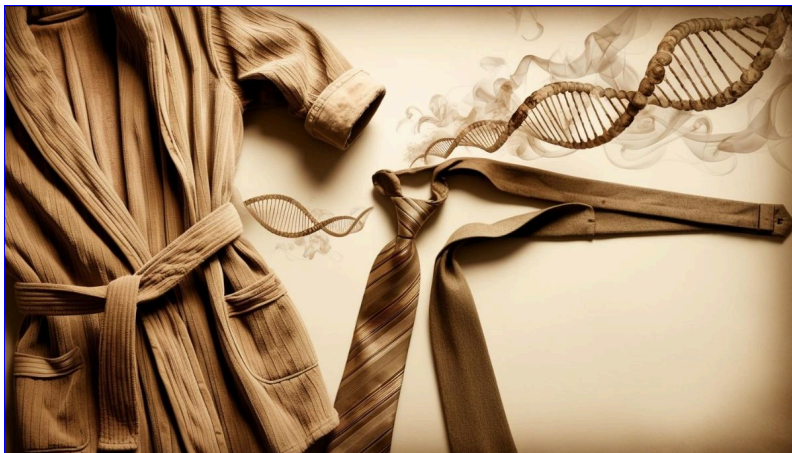
**Newsroom**

## *Georgia v. Johnny Lee Gates*

In the push to reopen Johnny Lee Gates's 1977 dubious conviction, his legal team pursued three separate paths: proving racial bias in jury selection, challenging a coerced confession, and testing DNA evidence. Only one route succeeded—DNA. A bathrobe belt and necktie left at the crime scene —evidence long thought destroyed—was rediscovered. Human interpretation of the degraded DNA mixture data was inconclusive. But TrueAllele's powerful computing conclusively excluded Gates, providing newly discovered exculpatory DNA evidence.

This Georgia case shows how TrueAllele transforms legacy forensic data into powerful evidence for DNA truth. TrueAllele pulls clarity from degraded, low-level DNA mixtures that other methods can't resolve. Without it, Gates might still be imprisoned for a crime he didn't commit. After Cybergenetics' expert testimony, he won a new trial—and was ultimately freed after spending over 43 wrongful years in prison.

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# *Technology Developments*

## *NGS and Legacy Data*

Cybergenetics' TrueAllele has long supported Next-Generation Sequencing (NGS). This DNA data capability allows forensic experts to reanalyze legacy DNA samples, even when it is highly degraded or contaminated. NGS extracts high-resolution data from old cold case evidence. TrueAllele can then solve samples once deemed "unsolvable." TrueAllele NGS empowers investigators to connect historical DNA data with modern databases. For example, in a cold case with degraded DNA evidence, forensic teams used NGS to extract usable genetic material, ultimately identifying and arresting a suspect years after the crime.

**Newsroom**



*Automation to Solve Legacy Data*

TrueAllele automates the entire DNA interpretation process, allowing rapid processing of legacy data with speed and precision. Cybergenetics showcased this high-volume capability with its World Trade Center project. The company processed DNA samples from over 18,000 victim remains. Our analysts flew through all their interpretation setup tasks at 30 samples per hour; the TrueAllele computer took it from there and did the rest. Cybergenetics set the bar for high-efficiency interpretation of complex DNA evidence. TrueAllele super-computer success delivered new information, and gave closure to victim families. The same TrueAllele automation now lets forensic scientists tackle legacy evidence, reduce DNA backlogs, and crack "unsolvable" cold cases on a large scale.

**Duquesne Talk**

# *Conferences*

Cybergenetics speaks with hundreds of crime investigators at conferences, conventions, and trade shows about how TrueAllele technology and services can help them solve their toughest cases.

**APRIL**

- *RISS - Human Trafficking Summit* (Regional Information Sharing Systems)
    - Location: San Diego, CA
    - Dates: April 20-24
- *WAHI - Annual WAHI Training Seminar* (Wisconsin Association of Homicide Investigators)
    - Location: The American Club, Kohler, WI
    - Dates: April 29th to May 2nd

Stop by our trade booth to learn how TrueAllele technology can help you solve your most complex DNA cases.

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**Free TrueAllele Screening**

**Contact Cybergenetics today, making the impossible routine**™