



January Newsletter

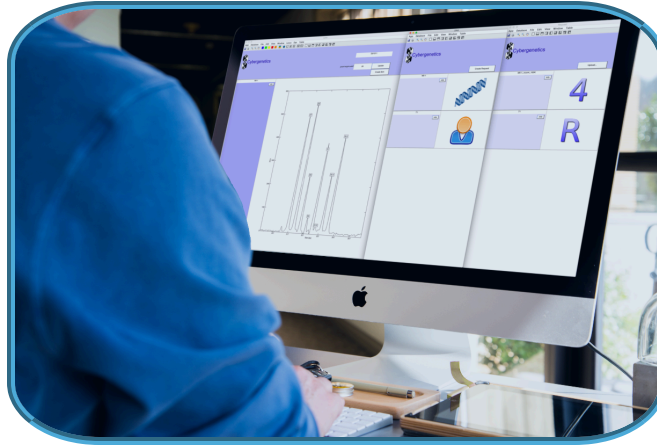
Better Justice Through Better Science™

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Cybergenetics News

TrueAllele Innovation in 2026



Happy New Year from all of us at Cybergenetics! We hope you and your team have had a strong start to 2026.

This year is shaping up for continued progress in Cybergenetics TrueAllele® forensic DNA interpretation. We are already seeing more casework, more validation, and more tools for turning complex DNA results into usable information. TrueAllele technology is designed for the very evidence that impedes criminal investigation: mixtures, low-level DNA, and challenging data that cannot be interpreted using traditional approaches.

Case Highlights

Pennsylvania v. Jaleer Fletcher



On February 17, 2023, [18-year-old high school senior Erig Morrison](#) was gunned down in Chester City, PA. The two assailants discarded their weapons as they fled. A Taurus handgun and an Anderson rifle were recovered. DNA analysis showed six-person mixtures, too difficult for most crime labs to solve.

The prosecutors contacted Cybergenetics for free TrueAllele screening of their “uninterpretable” DNA mixture data. TrueAllele successfully separated the mixture into probabilistic genotypes. Testing references that were provided over time, Cybergenetics connected the weapons to two suspects with match statistics in the millions and billions.

Faced with powerful DNA evidence, one man pleaded guilty. The other man, Jaleer Fletcher, chose to go to trial. Cybergenetics testified about the TrueAllele results. [Mr. Fletcher was convicted of second-degree murder](#) and sentenced to 13-40 years in prison.

Weapons are a regular source of DNA evidence. They routinely produce mixtures with five or six people. Most DNA labs cannot solve such complex data, and report “no interpretable results were obtained due to the complexity of the mixture” using the tools they have.

But mathematically advanced [TrueAllele interprets mixtures containing 5, 6, or even 10 contributors](#). Cybergenetics complements the crime lab by taking your “uninterpretable” DNA to the next level and producing the evidence.



Technology Highlights

TrueAllele Investigative Database



Volume crime – high-frequency property crime like burglary and car theft – is far more common than violent crime. DNA evidence can solve volume crime and stop criminal careers. But routine DNA processing can be too slow and expensive for volume crime.

To overcome this hurdle, private labs offer faster and cheaper volume crime DNA databases. Despite the significant process improvement, limited data analysis may produce “non-searchable” mixtures that give no actionable intelligence.

Cybergenetics’ TrueAllele Investigative Database (TAID) solves the property crime DNA problem. Building on private volume crime databases, TAID harnesses the power of TrueAllele data analysis to uniquely deliver crucial DNA connections. In a recent study of over a thousand volume crime database items, TAID matched 72% of previously unusable “non-searchable” DNA mixtures, delivering new actionable intelligence.

Police and prosecution investigators rely on TAID to solve volume crime from “uninterpretable” DNA. Coupling TrueAllele mixture interpretation with DNA database automation provides the fastest, cheapest, and most informative solution.

Hear Pennsylvania [detectives talk about their volume crime success](#) at the AAFS meeting in New Orleans next month in their presentation on “Turning unsearchable mixtures into actionable intelligence for reliable DNA evidence.” And contact Cybergenetics today to learn how TAID intelligence can help investigators reduce crime in your community.

TAID Talk

TrueAllele Rapid on Your Desk



Rapid DNA instruments can generate usable STR data in about 90 minutes. Rapid is ideal for suspect profiles. But crime scene evidence often involves mixtures, low-level DNA, and partial profiles. Such Rapid DNA data can be hard to interpret. Fortunately, Cybergenetics TrueAllele excels at accurate interpretation of very complex DNA data.

TrueAllele Rapid interprets challenging Rapid DNA evidence. It produces reliable match information that provides actionable intelligence. Better use of complex Rapid DNA data can help shorten time to leads, and strengthen links between cases across jurisdictions.

Hear Louisiana forensic [scientists present their TrueAllele RapidHit study](#) in New Orleans next month. Their AAFS talk discusses “Computer interpretation of RapidHIT mixtures for DNA match information.” And

contact Cybergentics today to learn how TrueAllele RapidHit can help reduce crime in your community.

TrueAllele Rapid

 **Cybergentics** Need better DNA for justice?

**Complimentary TrueAllele®
DNA Screening**

LEARN MORE



Publications

Forensic Magazine Top Ten



Cybergentics CEO and Chief Scientist Dr. Mark Perlin's work was featured in *Forensic Magazine's* "Top 10 News Articles of 2025." His "[Who's Afraid of Madeleine McCann?](#)" story was among its most-read stories of the year.

Cybergentics posts [TrueAllele scientific papers, magazine articles](#) and other publications on its website. Dr. Perlin's [DNA Matters](#) column in *Forensic Magazine* shares current DNA evidence trends and issues through the lens of interesting cases.

McCann Story

AAFS 2026 Conference

2026 Presentations

Cybergenetics will be presenting novel TrueAllele technology innovations in three talks at the upcoming 78th *American Academy of Forensic Sciences* annual conference in New Orleans, Louisiana in February 2026.

Cybergenetics will deliver three presentations showcasing new work with RapidHIT DNA identification, next-generation TrueAllele Investigative Databasing (TAID) solutions, and Next Generation Sequencing (NGS). Together, these advances expand what labs and law enforcement can do with in-house technology powered by TrueAllele. Read more about our presentations in the AAFS presentation section



Computer interpretation of RapidHIT™ mixtures for DNA match information

Speakers: Baron Andrus, MS, Mark Perlin, PhD, MD, PhD

The widespread RapidHIT DNA typing machines lets investigators generate a DNA profile from evidence in about 1.5 hours. Those fast results can be difficult to interpret with traditional methods, especially for complex samples.

Cybergenetics' TrueAllele software enhances RapidHIT results by interpreting even the most challenging DNA evidence—such as mixtures or low-level samples—and turning them into clear, scientifically supported match statistics.

This presentation features a Louisiana State Police study showing how

adding TrueAllele to RapidHIT workflows can quickly deliver useful, defensible answers—supporting both rapid investigative decisions and robust, courtroom-ready reporting.

RapidHIT Abstract

Turning unsearchable mixtures into actionable intelligence for reliable DNA evidence

Speakers: Edward Schikel, MBA, Terrance Lewis MA, Mark Perlin, PhD, MD, PhD

Cybergenetics' TrueAllele Investigative Database (TAID) helps agencies unlock the value of difficult DNA evidence—especially mixtures that older CODIS approaches often can't search.

This presentation shows how TAID, combined with high-volume DNA testing, can quickly turn property-crime evidence into meaningful investigative leads and cross-case connections.

In a Montgomery County (PA) pilot study reviewing 1,234 evidence items, TAID generated many new links between items and produced new leads from many samples that had previously yielded no searchable result. The outcome: faster case progress, earlier intervention, and stronger, report-ready results when it's time to go to court.

TAID Abstract

Solving complex DNA mixtures with Next Generation Sequencing

Speakers: Kari Danser, MS, Mark Perlin, PhD, MD, PhD

Cybergenetics' TrueAllele software can be paired with Next Generation Sequencing (NGS) to interpret especially challenging DNA evidence—such as complex mixtures with many contributors—where traditional approaches often fall short.

NGS can capture more information from difficult samples. Combined with TrueAllele's powerful statistical analysis, labs can better separate contributors, identify unknowns, and support cold case work.

In this presentation, the speakers walk through a real Cleveland homicide case involving a seven-person mixture. They recreate the scenario using

NGS validation data, demonstrating how the combined NGS–TrueAllele approach delivers clearer, stronger DNA associations.

The takeaway: using NGS and TrueAllele together expands what labs can reliably conclude from complex mixture evidence—and can ultimately strengthen case outcomes.

NGS Abstract

Upcoming Conferences



February

- NSA - National Sheriffs' Association - 2026 Winter Conference
 - Location: J.W. Marriott Washington, DC
 - Exhibit Dates: February 2-3
- AAFS - California Homicide Investigators Association 56th Annual Conference
 - Location: New Orleans Ernest N. Morial Convention Center, New Orleans, LA
 - Exhibit Dates: February 11-13

March

- WSSA - Western States Sheriffs' Association Annual Conference
 - Location: Peppermill Resort & Casino - Reno, NV
 - Exhibit Dates: March 2-4

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

Free TrueAllele Screening

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