



# December 2022 Newsletter

*Better Justice Through Better Science™*

Cybergenetics would like to wish everyone Happy Holidays and a Happy New Year!

2022 was such an active year for Cybergenetics! Major developments with our products and services have us ready to tackle new projects and opportunities in 2023. This success would not have been possible without all of you – our staff, collaborators, and supporters.

We thank you all, and we wish everyone the very best for a successful and productive year ahead.

- [New Website](#)
- [New Features](#)
- [Trials in 2022](#)
- [Conferences in 2022](#)
- [Thomas Bayes](#)

---

## ***New Website***







Cybergenetics is excited to enter the new year with a brand-new website. The new user-friendly [cybgen.com](https://cybgen.com) showcases our unique expertise, and the powerful impact we have made on both the forensic community and society at-large.

# Welcome

## Get accurate results from DNA evidence

### TrueAllele® technology interprets DNA data from crime scene evidence

Laboratories, investigators and lawyers want accurate unbiased results. But some methods limit DNA interpretation, giving inaccurate answers. TrueAllele provides a solution. TrueAllele technology is automated and objective. Its robust software interprets "inconclusive" DNA. The computer uses all the DNA data. And it quickly and reliably solves DNA mixtures. TrueAllele separates DNA mixture data into genotypes. Afterwards, the computer determines how strongly evidence matches a person, or even other evidence. The statistical results help with investigative leads and in legal proceedings. Validation studies show that TrueAllele results are reliable. Courts accept the computer findings in the United States and abroad. Cybergenetics offers forensic DNA education and other resources.

| Cybergenetics<br>TrueAllele® Technology   | Other Probabilistic<br>Genotyping Technologies   |
|---|--|
|  <b>Uses all the DNA data</b> ⓘ      | <b>Not thorough</b> ⓘ     |
|  <b>The DNA answer is right</b> ⓘ    | <b>Not accurate</b> ⓘ     |
|  <b>Gives an unbiased result</b> ⓘ | <b>Not objective</b> ⓘ  |

A useful international feature of [cybgen.com](http://cybgen.com) is automated translation into other languages, including Arabic, Chinese, Dutch, French, Hindi, and Spanish.

Choose the language by toggling on the bottom right under our newsletter subscription field – the option is on every page of the website.



Cybergenetics  
 160 N Craig St., Suite 210  
 Pittsburgh, PA 15213  
 412-683-3004  
 info@cybgen.com

Company Services Products Information  
 News Support Contact Us Search

Subscribe to our newsletter  
 [Language Selection: English, Chinese, Hindi, Spanish, etc.]

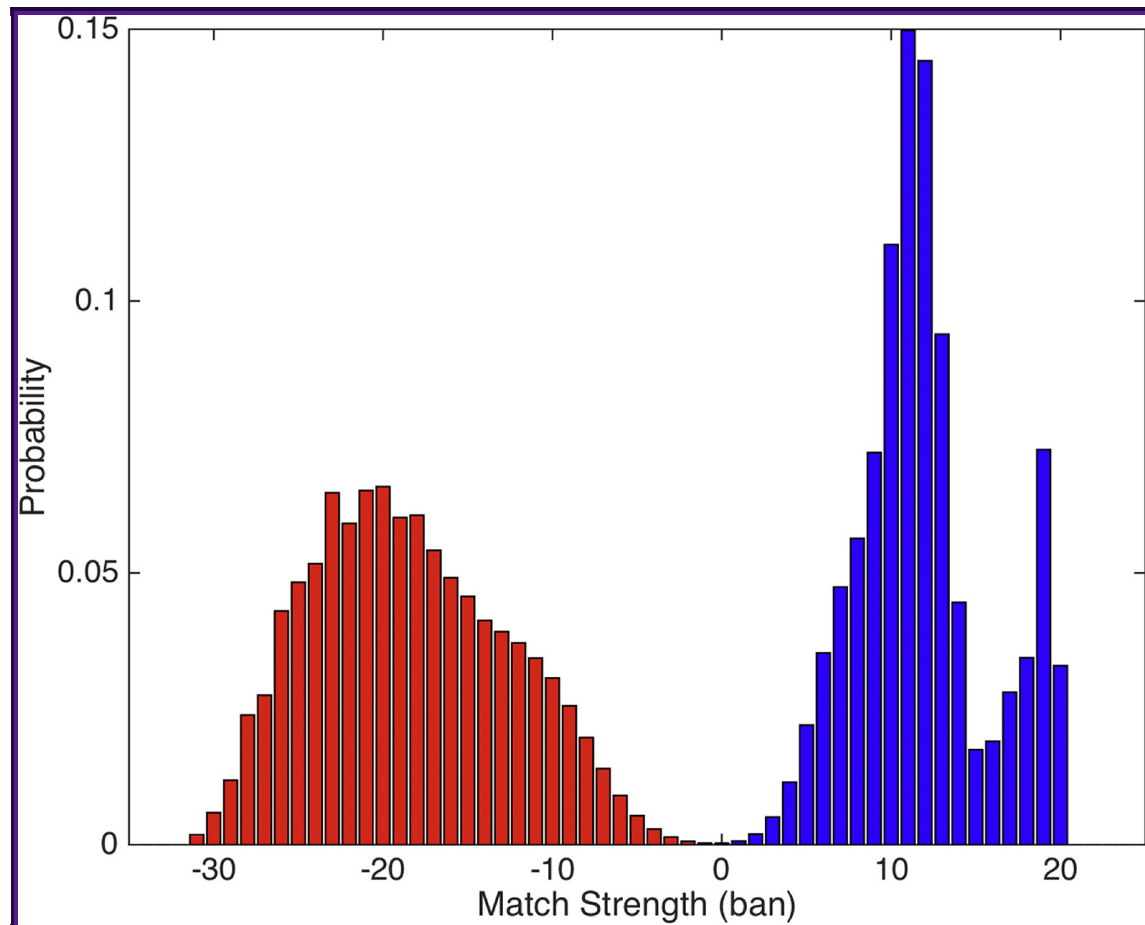
Terms & Conditions | Privacy Policy  
 © 2022 Cybergenetics | Website Created by Advanta Advertising, LLC.

cybgen.com

## New Features

Cybergenetics released a powerful Visual User Interface (VUIer™) update in October.

The interface update sports a new *Distribution* module for fast and accurate genotype comparisons. Imagine instantly comparing DNA evidence with the profile of everyone on Earth. Visualizing this match statistic distribution gives the [non-contributor distribution](#) curve.



What an intuitive visual way to understand probabilistic genotype information! And for validation studies, the module reduces months of human effort to just minutes of computing.

Paper

*Distribution* delivers instant and accurate error rates for all DNA match results. What is the chance that someone not in the evidence would accidentally match as strongly as the defendant? This is the false positive error, calculated by TrueAllele against all trillion trillion genotypes in an a hundredth of a second, at high match resolution.

In July, Cybergenetics was granted its second [patent](#) for this useful error rate innovation. No other company can deliver this essential casework and validation technology.

## ***Trials in 2022***

TrueAllele was used in over ten trials this year. The cases included homicide, weapons possession, arson, and civil disputes.

Visit our [trials page](#) and sign up for our newsletter to stay up to date on Cybergenetics' involvement in criminal justice.

 **Cybergenetics** [Company](#) [Services](#) [Products](#) [Information](#) [News](#) [Support](#) [Contact Us](#) [Search](#)



***Cases where Cybergenetics testified about TrueAllele® evidence.***

Skip to year:

### **2022**

**State of Tennessee v Abdullah Powell**  
Homicide

**People of New York v Donatila O'Mahony**  
Homicide

**United States v Derrick Estes**  
Weapons possession

**Estate of Gregory Hill v Sheriff of St. Lucie County and Deputy Christopher Newman**  
Civil

**Maryland v Michael Brown, Jr.**  
Homicide

**New Hampshire v John Gates**  
Arson

**Pennsylvania v Stephen Moore**  
Homicide

**Pennsylvania v Raphael Perez-Rodriguez**  
Homicide

**United States v Curtis Johnson, Jr.**  
Homicide (re-trial)

**Ohio v Ronald Newberry**  
Homicide

## Conferences in 2022



The company attended these conferences:

- North California Homicide Investigators Association Conference (NCHIA)
- MidAtlantic Cold Case Homicide Investigators Association Conference (MACCHIA)
- California Homicide Investigators Association Conference (CHIA)
- OSBI Major Crimes Conference in Oklahoma
- Southeastern Homicide Investigators Association Conference (SEHIA)
- Illinois Homicide Investigators Association Conference (ILHIA)

The next time you see us at a conference, be sure to stop by our table to say hello!

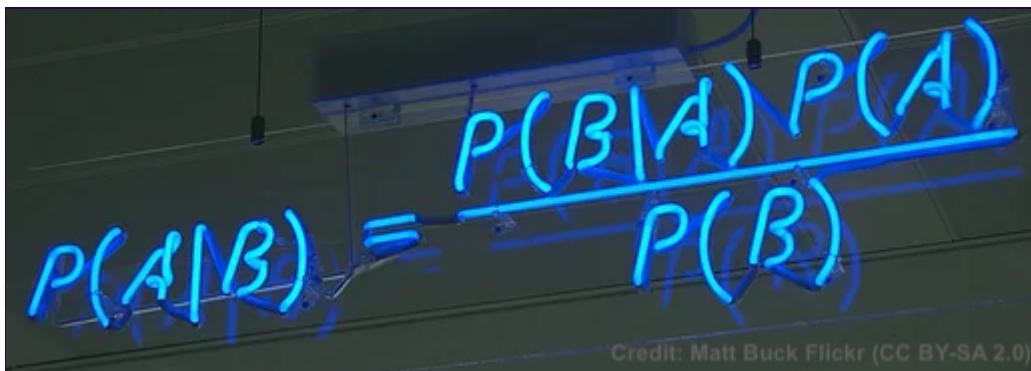
We look forward to more conferences in 2023 where we will continue to showcase our growing number of [products](#) and [services](#)!

Products

Services

---

## Thomas Bayes


$$P(A|B) = \frac{P(B|A)P(A)}{P(B)}$$

Credit: Matt Buck Flickr (CC BY-SA 2.0)

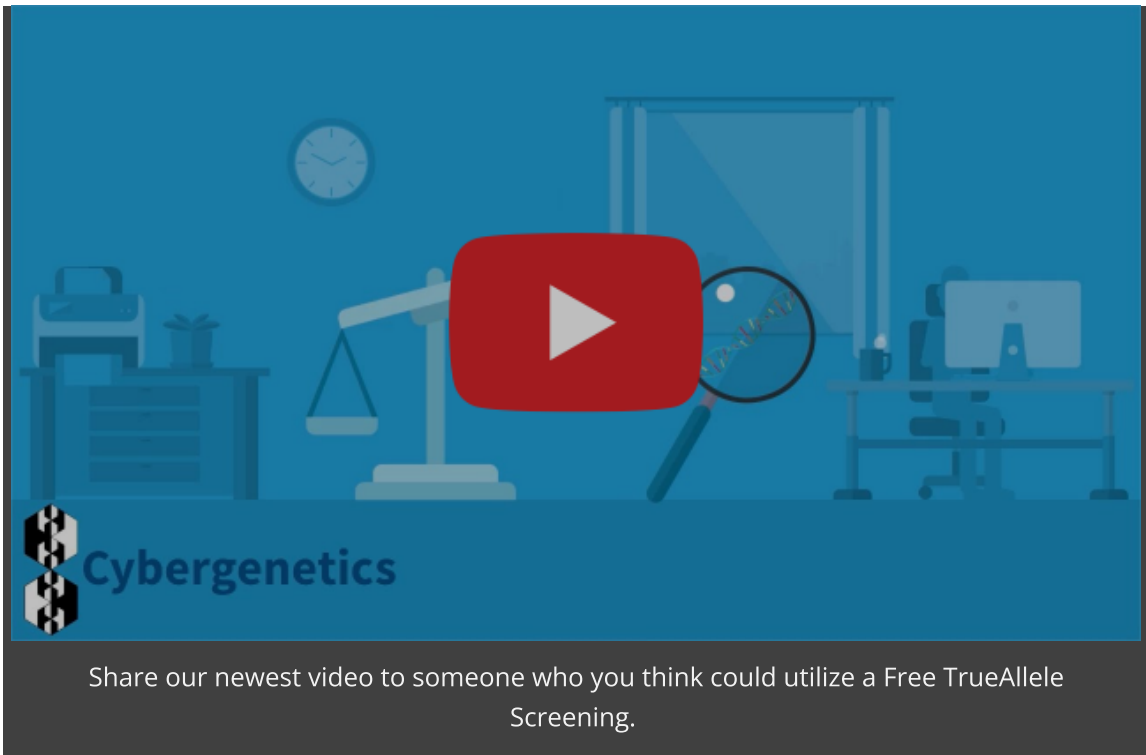
In 1763, an obscure British paper was published on “The Doctrine of Chances” that would forever change the world. The late Reverend Thomas Bayes had discovered how to *invert probability*, determining to what extent evidence updates belief. Together with modern computing, Bayes had invented the most powerful reasoning tool ever devised to find truth.

Back then, probability flowed in only one direction – from cause to effect. Given a hypothetical cause, it gave the chance of different possible outcomes. But what we really want to know is the probability of hidden causes, after we’ve seen the evidence outcome.

Bayes Theorem reverses probability direction, telling us about the causes. Given symptoms, Bayesian software can help doctors diagnose the disease. And given DNA evidence, Cybergenetics Bayesian TrueAllele<sup>®</sup> system can find genotypes, expressing identification information as highly accurate DNA match statistics.

Bayes

---

A blue banner featuring a central red YouTube play button icon. The background contains faint icons of a clock, a scale of justice, a magnifying glass, a printer, and a computer workstation. The Cybergenetics logo is positioned in the bottom left corner of the banner.

**Cybergenetics**

Share our newest video to someone who you think could utilize a Free TrueAllele Screening.

-  Share
-  Tweet
-  Forward

---

**Free TrueAllele Screening**

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

- 
- 
- 
- 
- 
- 
- 

---

*Copyright © 2022 Cybergenetics, All rights reserved.*

Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#).

Grow your business with  **mailchimp**

---