

TrueAllele computer reanalysis

The Washington Post

Virginia reevaluates DNA evidence in 375 cases July 16, 2011

"Mixture cases are their own little nightmare," says William Vosburgh, director of the D.C. police's crime lab. "It gets really tricky in a hurry."

"If you show 10 colleagues a mixture, you will probably end up with 10 different answers" Dr. Peter Gill, Human Identification E-Symposium, 2005



Biological sample types						
Sample type	Count					
blood	10					
epithelial/skin	30					
fingernails	2					
hair	1					
saliva	4					
semen	3					
stain	1					
touch	41					



	Contributors	Items
Estimate	2	40
	3	65
	4	8
Overlap	2 or 3	16
	3 or 4	3
	2, 3 or 4	1



























3.2.2. If a stochastic threshold based on peak height is not used in the evaluation of DNA typing results, the laboratory must establish alternative criteria (e.g., quantitation values or use of a probabilistic genotype approach) for addressing potential stochastic amplification. The criteria must be supported by empirical data and internal validation and must be documented in the standard operating procedures.

Use TrueAllele® Casework for DNA mixture statistics











































rueAllele Virginia outcom					
144 cases analyzed 72 case reports – 10 trials					
City	Court	Charge	Sentence		
Richmond	Federal	Weapon	50 years		
Alexandria	Federal	Bank robbery	90 years		
Quantico	Military	Rape	3 years		
Chesapeake	State	Robbery	26 years		
Arlington	State	Molestation	22 years		
Richmond	State	Homicide	35 years		
Fairfax	State	Abduction	33 years		
Norfolk	State	Homicide	8 years		
Charlottesville	State	Homicide	15 years		
Hampton	State	Home invasion	5 years		







Michael Gardner

- Lawyer near Washington, DC
- Accused of molesting three 10
 year old girls at slumber party
- TrueAllele found a DNA match statistic of twenty quadrillion
- · Convicted on 3 counts
- Sentenced to 22 years in prison





