

16th International Symposium on Human Identification Sponsored by Promega Corporation September, 2005

> Mark W Perlin, PhD, MD, PhD Pittsburgh, PA USA perlin@cybgen.com

Cybergenetics

Cybergenetics © 2003-2005

DNA Match Prevents Crime

UK: 45% hit rate property crimes match offenders VA: 40% hit rate sexual assaults match nonviolent

Fast, complete DNA processing: prevent 300 stranger rapes/day





TrueAllele® History

1994 - Automated STR Genotyping

AJHG paper published (stutter deconvolution)
patents filed (6 issued) – licensing
NIH grant funded

2000 - FSS System 2 Deployment • databank: reduced time, error, people • > 1,000,000 databank & property crime samples

2000 - TrueAllele System 3

casework applications (mixture deconvolution)

- property crime, sexual assault, mass disaster
- goal: faster, better, cheaper than people





































	ybergenetics trueallele [®] net User:markperlin
×	1 report 2 search 3 select 4 review Study: NUmixture Part: CYB310 Client: CYB Request: A1C1 Process: oneunknown profile power match strength mixture data
User	
Logout	Contrib Template
Register	
	2 0.000 0.320
Report	2 0.000 0.020
New	Copyright Cybergenetics 2003-2005. All Rights Reserved.
Technology	
TrueAllele	Mark W. Perlin, ¹ Ph.D., M.D., Ph.D. and Beata Szabady, ¹ Ph.D.
Processing	
Reporting	Linear Mixture Analysis: A Mathematical
Patents	Approach to Hesolving Mixed DNA Samples
Contact	
Company	BEFERINCE: Pedia MW, Sanhady B, Linoremistrare analysis: a In this paper, we introduce the linear LMA model, and then pro- tationatical accessible to mobiling mixed DNA model. J Ports- vide scene illustrational environments Was describe sensered as when you
Sales	sie Sie 2001 aligija 172-1278. mularizone, each one based on a particular subset of data available to the examplese. We then focus on kibentere data analysis results
Support	ARTERACT: With the selected PGL2-based STR typing systems, including and one to separated an arthen indicated ECA points. Quantizative peak information are being in this analysis. However, there are also as a set of the second system of the second system of the posterior based and the set of the second system of the second system of the posterior based and the set of the second system of the second system of the posterior based and the second system of the second sys
	reporting. We introduce have a new automated approach to read ving fines. In DDA articles. Conclusion molecular (IAA) is a projekt.
	forward pathematical approach that can inspirate all the quantum. At the PCA infplations of a narray, the information of each PCA in the PCA infplation of the pathematical product scales in press reconcerning to relative weighting of each



















































Cybergenetics © 2003-2005

