Revolutionising DNA analysis in major crime investigations

The Investigator Conferences Green Park Conference Centre May, 2014 Aylesbury, Buckinghamshire

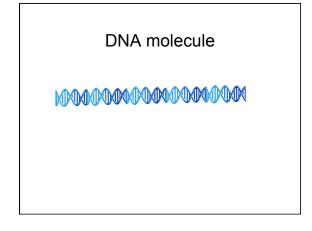
Mark W Perlin, PhD, MD, PhD Cybergenetics, Pittsburgh, PA

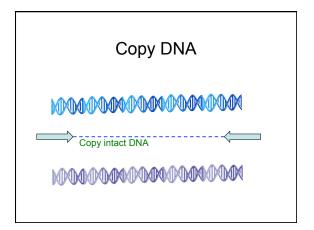


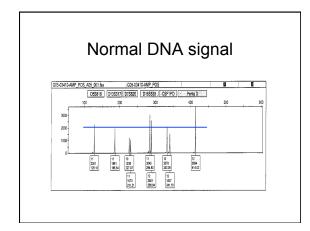
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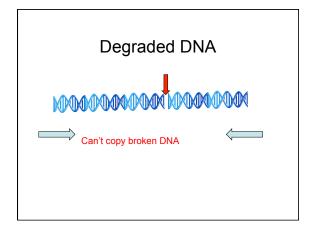


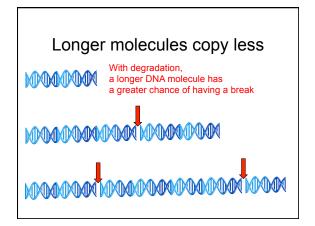
Commonwealth v. Lyons homicide: DNA mixture evidence 75% victim 25% other Victim's blood spatter pulsating spray from severed carotid artery

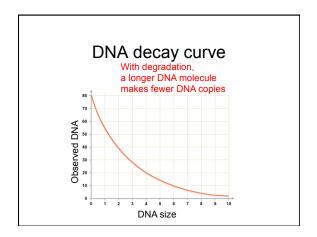


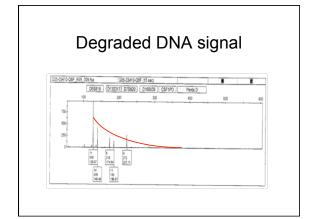


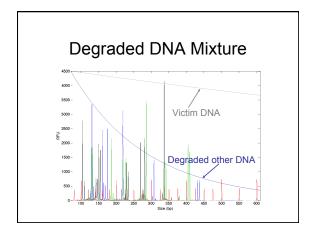












Match statistic comparison Human 42,000 Computer 9,500,000,000,000

Computer Interpretation of Quantitative DNA Evidence

Commonwealth v. Lyons June, 2011 Reading, PA

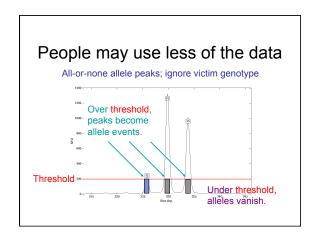
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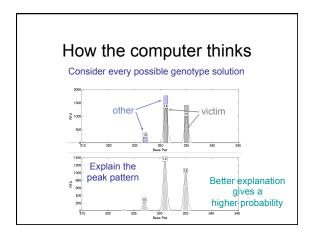


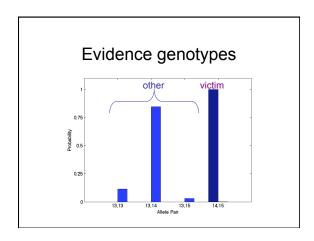
Cybergenetics © 2003-201

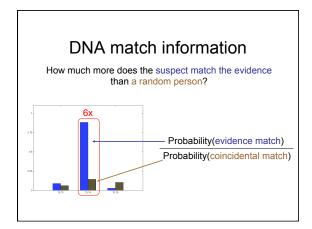
DNA evidence interpretation Evidence Lab Evidence data Infer Evidence genotype 10, 12 @ 50% 11, 12 @ 30% 12, 12 @ 20% Compare Known genotype 10, 12

Computers can use all the data Quantitative peak heights at locus D8S1179 120012









Is the suspect in the evidence?

A match between the suspect and the evidence is 9.46 trillion times more probable than coincidence.

Yes, with a reasonable degree of scientific certainty, evidence item Q9 contains DNA from the genotype of suspect item K2.

Is the victim in the evidence?

A match between the victim and the evidence is 1.27 quintillion times more probable than coincidence.

Yes, with a reasonable degree of scientific certainty, evidence item Q9 contains DNA from the genotype of victim item K1.



Attp://www.cybgen.com/support | Compared |

