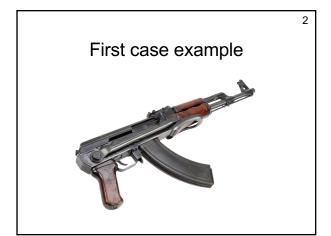
Testifying about probabilistic genotyping results

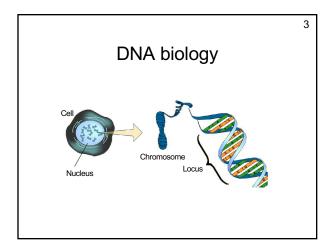
Mid-Atlantic Association of Forensic Scientists
May, 2019
Morgantown, WV

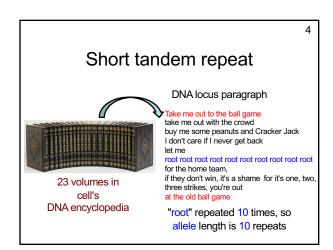
William Allan, MS Cybergenetics, Pittsburgh, PA

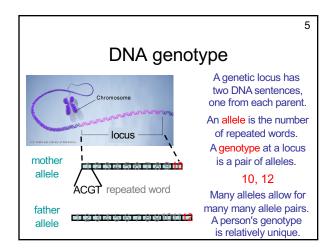


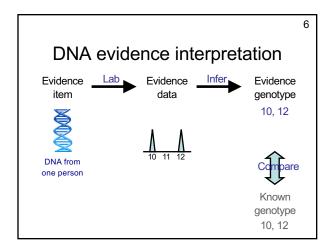
Cybergenetics © 2003-2019

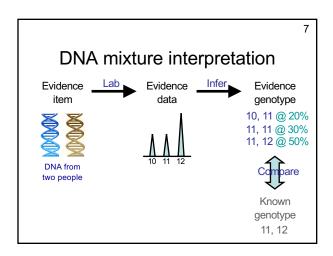


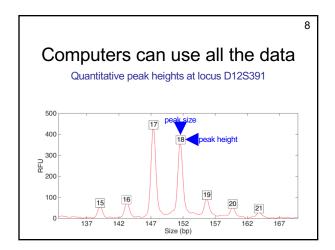


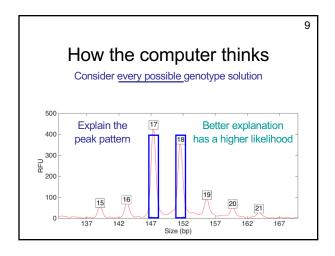


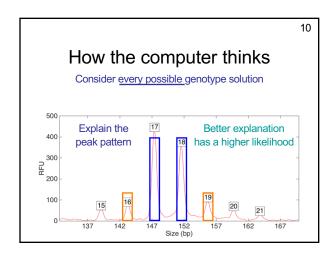


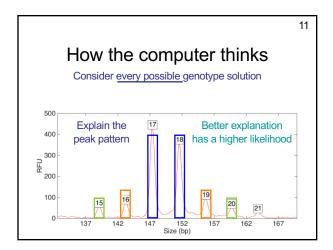


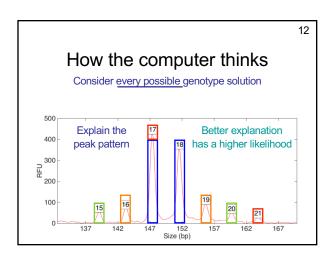


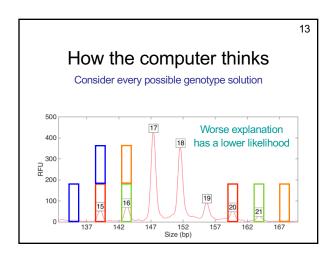


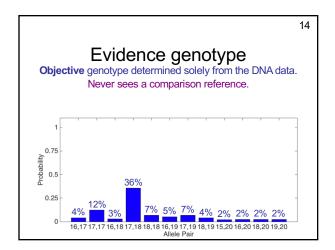


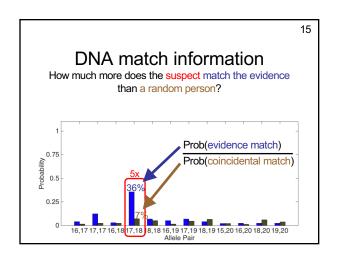


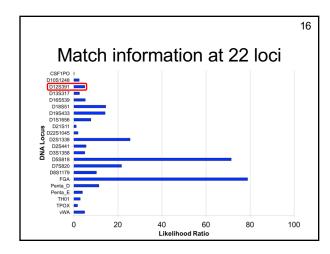












Is the suspect in the evidence?

A match between the gun and the suspect is:

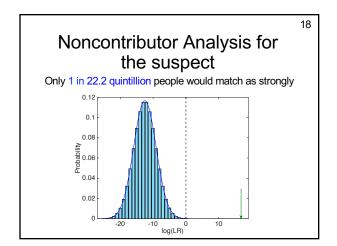
59.2 quadrillion times more probable than a coincidental match to an unrelated African-American person

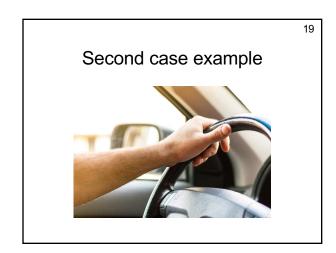
2.69 quintillion times more probable than a coincidental match to an unrelated Caucasian person

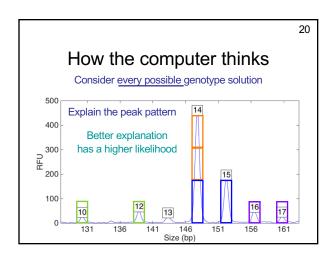
4.11 quintillion times more probable than a coincidental match to an unrelated Southeast Hispanic person

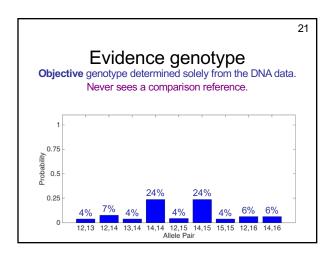
1.25 quintillion times more probable than a coincidental match to an unrelated Southwest Hispanic person

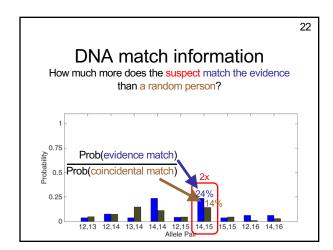
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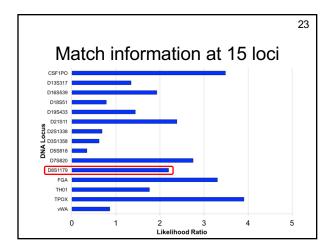




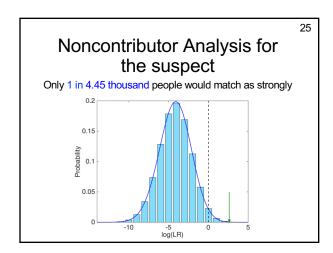


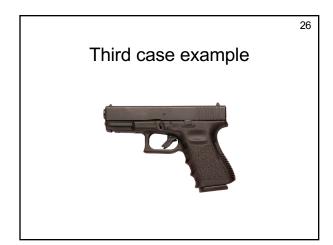


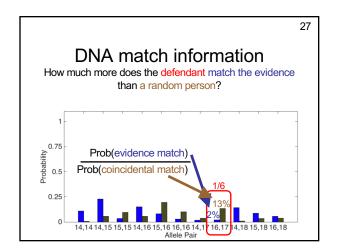


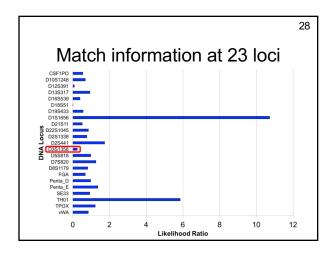


Is the suspect in the evidence? A match between the steering wheel and the suspect is: 414 times more probable than a coincidental match to an unrelated African-American person 47.6 thousand times more probable than a coincidental match to an unrelated Caucasian person 21.3 thousand times more probable than a coincidental match to an unrelated Hispanic person









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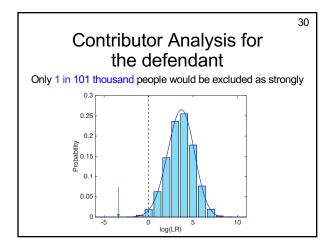
Is the defendant in the evidence?

A match between the revolver and the defendant is:

2.54 thousand times *less* probable than a coincidental match to an unrelated African-American person

41.6 thousand times *less* probable than a coincidental match to an unrelated Caucasian person

22.2 thousand times *less* probable than a coincidental match to an unrelated Hispanic person



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