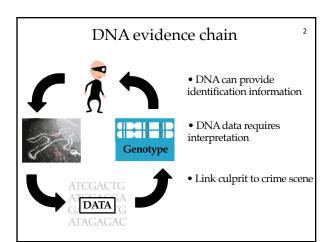
## Developing investigative leads from a probabilistic genotyping database

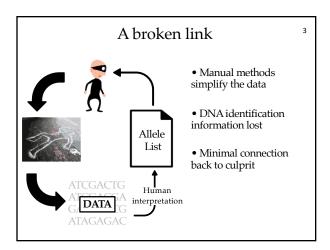
David W. Bauer<sup>1</sup>, PhD
Nasir Butt<sup>2</sup>, PhD
Jeffrey Oblock<sup>2</sup>
Mark W. Perlin<sup>1</sup>, PhD, MD, PhD

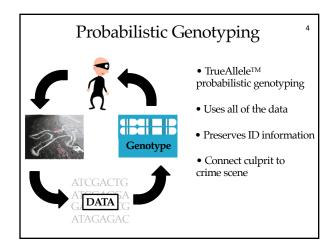
<sup>1</sup>Cybergenetics Pittsburgh, PA <sup>2</sup>Cuyahoga County Forensic Laboratory Cleveland, OH

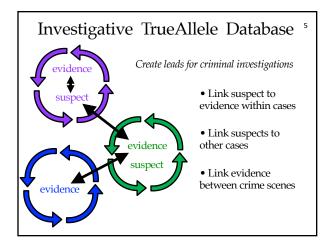
Cybergenetics

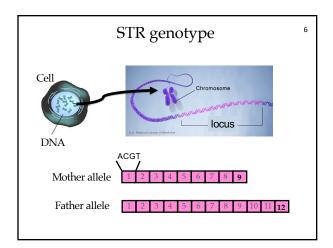
Cybergenetics © 2003-2019

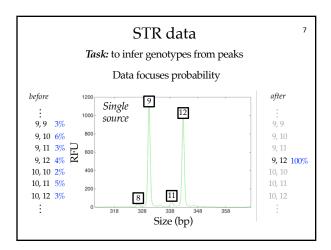


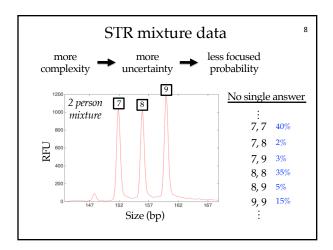


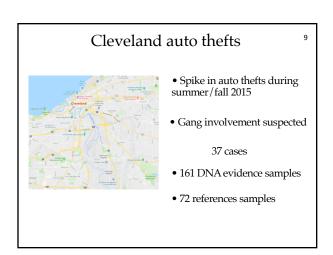


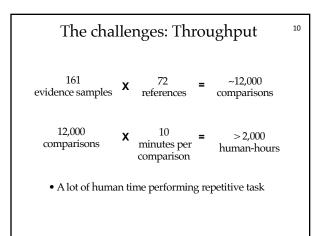


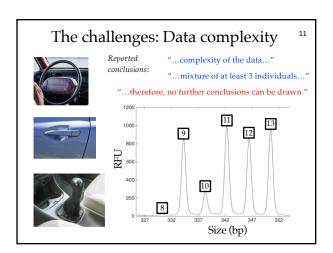


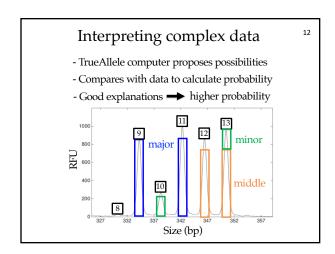


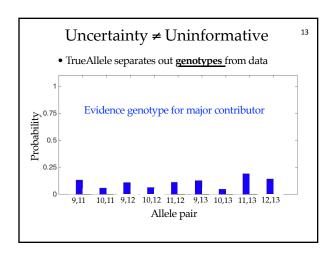


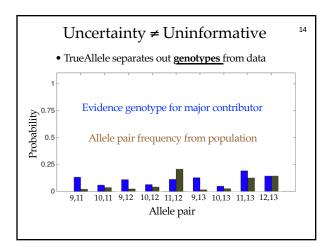


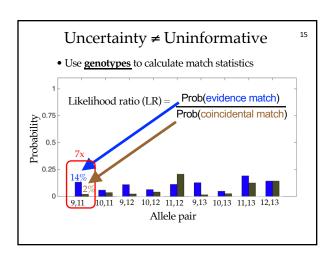


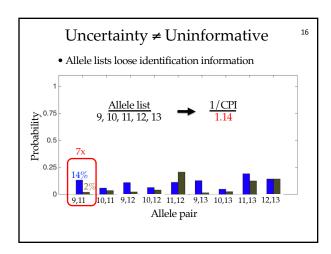


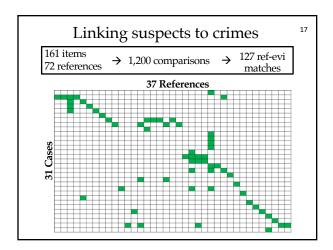


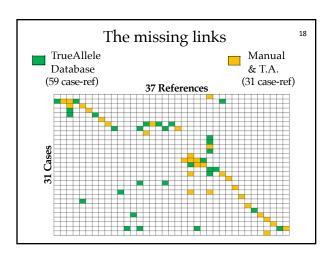




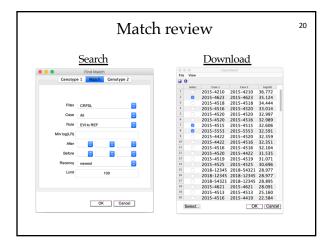


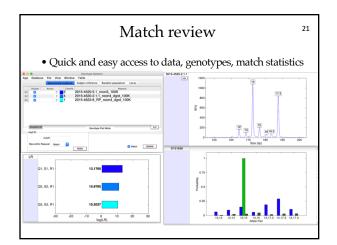


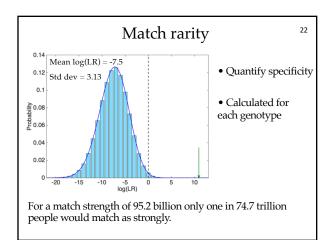


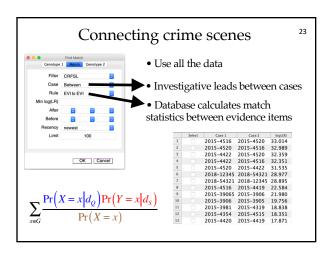


| Method comparison                      |   | 19 |
|--|---|----|
| Manual review                          | TrueAllele IPGD                               |    |
| ~2 months from data to interpretations | Few hours of analyst time                     |    |
| 23 references                          | 37 references                                 |    |
| 30 items 'inconclusive'                | At least one reference association for all 30 |    |
| 12 reported exclusions                 | 12 positive associations                      |    |
|  |   |    |

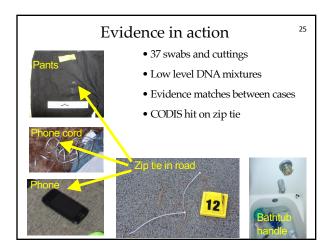


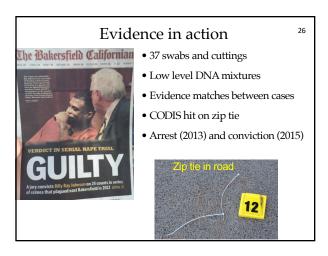


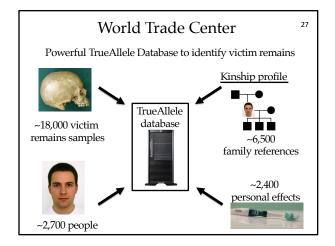












## Conclusions

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- Automate DNA investigation
- Reduce interpretation bottleneck
- Extract more information from DNA data
- Match suspects to crimes
- $\bullet$  Connect crime scenes together

## More information

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