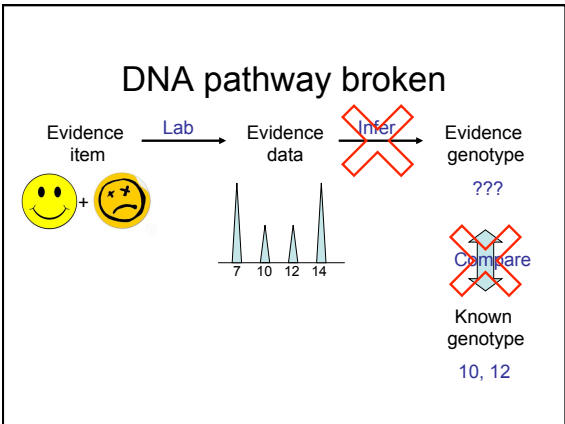


Human interpretation issues

- call good data inconclusive
- peaks are too low for them
- too many contributors to handle
- potential examination bias

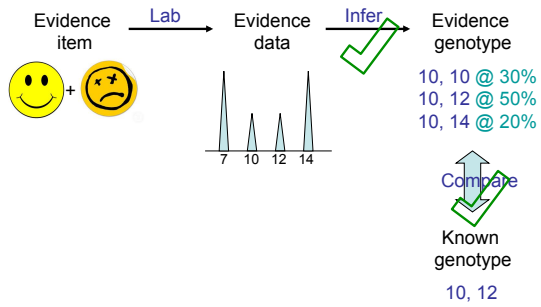


TrueAllele® Casework

- preserve data information
- use all peaks, high or low
- any number of contributors
- entirely objective, no bias

- crime lab data, TrueAllele science

DNA pathway restored



National DNA Mixture Crisis



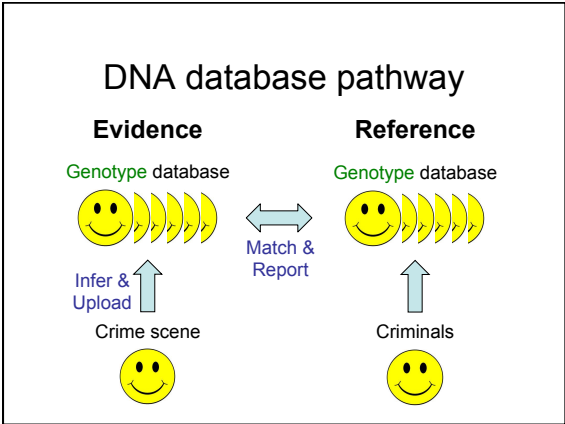
375 cases/year x 4 years = 1,500 cases
320 M in US / 8 M in VA = 40 factor
1,500 cases x 40 factor = 60,000 inconclusive



1,000 cases/year x 4 years = 4,000 cases
320 M in US / 8 M in NY = 40 factor
4,000 cases x 40 factor = 160,000 inconclusive

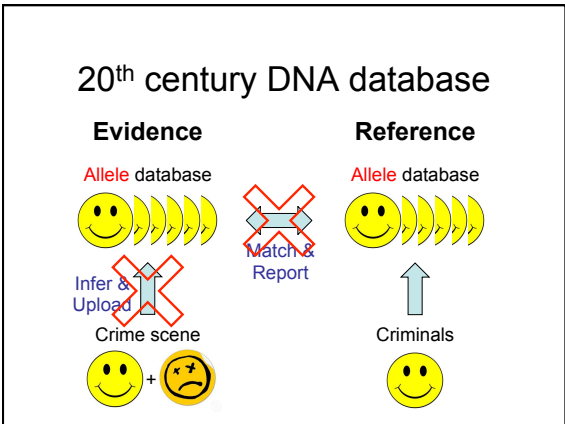


+ underreporting of DNA match statistics
DNA evidence data in 100,000 cases
Collected, analyzed & paid for – but unused



Old-style database issues

- upload only 10% of mixtures
- hit by association, not by match
- comparison: make false hits
- restrict upload: lose true hits



TrueAllele® Database

- upload all mixture evidence
- hit based on LR match statistic
- sensitive: find true hits
- specific: only true hits

- crime lab data, TrueAllele science

21st century DNA database

