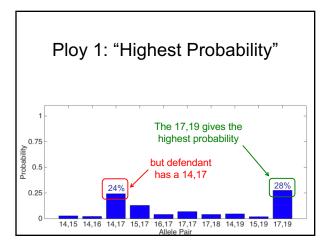


Confusing the issues

Science gives a simple ratio Court is an adversarial process

Defender: sow confusion

How? Distract jury with irrelevant arithmetic unrelated to a valid match statistic





Example testimony

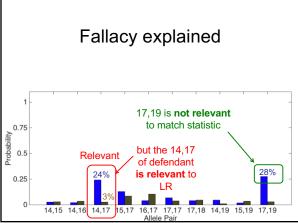
DEF EXPERT: The 8,11 at the CSF locus for this particular analysis was the **fourth most probable genotype** reported.

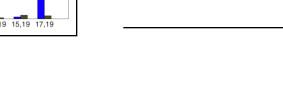
DEFENDER: Explain what you're saying to us.

DEF EXPERT: There are three genotypes other than 8,11 that have been accorded a higher probability.

DEFENDER: Okay. And D13? We're just going to go down through them.

DEF EXPERT: It was the **second highest**, this one listed in the table, is the second most probable.

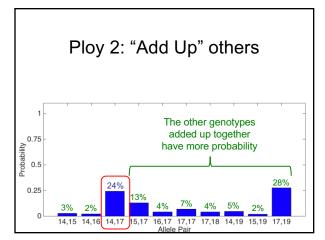




How to respond

PROSECUTOR: I'm going to object to the **relevance** of this unless they can bring some sort of expert opinion to bear on it, what's the significance.

THE COURT: So I would sustain that objection. So I would disallow your ability to get into that because it's outside the scope of the expert report.



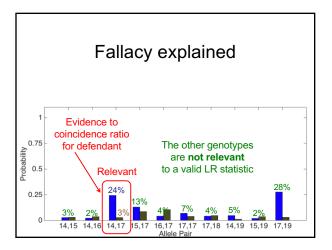
Example testimony

DEFENDER: Are these probabilities based on 100 percent or something else?

DEF EXPERT: At each location there must be another set of genotypes that have probabilities that sum up to the difference. So for that first CSF locus, that 9 percent locus, there must be other genotype probabilities that sum to 91 percent. We have to sum up to 100 percent. So there are other possible genotypes.

DEFENDER: So we're talking – if we're talking about the CSF, we're talking 9 percent out of 100?

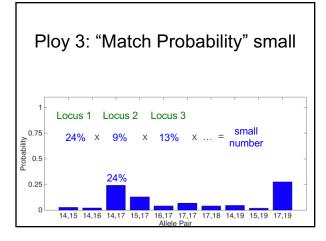
DEF EXPERT: Correct.





How to respond FRE Rule 401. Test for Relevant Evidence Evidence is relevant if: (a) it has any tendency to *make a fact more or less probable* than it would be without the evidence; and

(b) *the fact is of consequence* in determining the action.





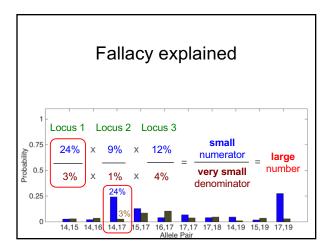
Example testimony

DEFENDER: And did you come up with genotype probabilities for Q5 after multiplying all these probabilities together?

DEF EXPERT: Yes. DEFENDER: And what's your figure?

DEF EXPERT: It is [in] scientific notation 2.85 times 10 to the negative 10, and that is roughly equivalent to 1 in three and a half billion ...

[the probability that] the suspect matches the evidence.



How to respond

PROSECUTOR: And were you there when he undertook a multiplication of the probabilities?

PRO EXPERT: Yes, I was.

PROSECUTOR: Okay. The **significance** of that product sum, what is the significance of it?

PRO EXPERT: It doesn't have any because it's just multiplying together the numerators. The probability of a match. A match statistic at each location is a probability of a match divided by the chance of coincidence, and that other equally important half of the calculation was left out.

Exposing confusion

FRE **Rule 403**. **Excluding Relevant Evidence** for Prejudice, Confusion, Waste of Time, or Other Reasons

The court may exclude relevant evidence if its *probative value is substantially outweighed* by a danger of one or more of the following: unfair prejudice, *confusing the issues, misleading the jury*, undue delay, wasting time, or needlessly presenting cumulative evidence.

