

REVIEWED**By Chris at 9:27 am, Mar 04, 2020****Back to Education****Mining the mixture - a DNA analyst explains**

M.W. Perlin, "Mining the mixture - a DNA analyst explains", *Judicial Summer Seminars, New York State Judicial Institute, Rye Brook, NY, June, 2019.*

Talk

PowerPoint presentation of Dr. Perlin's talks.

Part 1 (Science) introduces DNA mixtures – how they arise, and historical problems. The talk shows how to solve DNA mixtures, use them in criminal cases, and apply statistical software.

Mining the mixture: A DNA analyst explains - Part...

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Part 2 (Law) demonstrates how DNA mixture evidence is used in New York, and presented in court. The talk describes trial testimony, admissibility hearings, and software reliability.

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Abstract

More and more, crime laboratories are tasked with analyzing DNA samples involving two or more donors. To aid in the analysis of these hard-to-interpret samples, forensic scientists are using specialized software that evaluates samples in a way that would otherwise be prohibitively labor-intensive. But how do the programs work and what can an expert really say about the results? Using the expertise of scientists involved in the development of these programs, this session will enable judges to examine the reliability of DNA mixture evidence and testimony.

Selected Readings

Book Chapters

- [The Blairsville slaying and the dawn of DNA computing](#)
- [DNA identification science](#)

Magazine Articles

- [Hidden DNA evidence: exonerating the innocent](#)
- [When DNA is not a gold standard: failing to interpret mixture evidence](#)
- [Suspect-centric bias in DNA mixture interpretation](#)

Regulatory Approval

- **New York State Commission on Forensic Science approval letter**

TrueAllele Cases

- **Trials**

TrueAllele Rulings (NY)

- **People of New York v. John Wakefield**
- **People of New York v. John Wakefield - Appellate**
- **People of New York v. Casey Wilson**

Validation Papers (NY)

- **Validating TrueAllele® DNA mixture interpretation**
- **New York State TrueAllele® Casework validation study**

Additional Information

Agenda