



American Society of Crime Laboratory Director's Research Priorities 2019-2021



Research Area

Practical statistical approaches for the interpretation of forensic evidence

Development and validation of standardized forensic methods and conclusions in Impressions, Patterns, and Trace Evidence disciplines

Assessment of Examiners' Toolmark Categorization Accuracy (Firearms/Toolmarks)

Research to establish validated methods for THC quantity in plant materials, edibles, extracts, etc. that also accounts for the moisture content of the plant

Error Rates in Qualitative Methods of Analysis for Controlled Substances

The ability to detect and locate sufficient biological material (e.g., epithelial cells, extracellular DNA, etc.) associated with touched or worn objects, that is not visible to the eye or with alternate light sources, for downstream DNA analysis

Examiner Reliability Study: Black and White Box Studies on Bloodstain Pattern Analysis

Error rate studies on qualitative analysis (single tests and schemes) in Controlled Substances. The conclusion of such a study will also explain its limitations

Characterizing, Designing and Constructing Integrated DNA Mixture Interpretation Solutions

Expert System for Forensic Evidence Analysis (including mixtures) in DNA

Development of an Integrated and Multidisciplinary Approach for the Advancement of Data Collection, Data Management and Data Analysis to Aid Interpretation of Trace Evidence

Validation of Conclusion Scale in Forensic Document Examination

Comprehensive GSR Persistence Study

Specific Identification of Shooters via GSR

Evaluation into the Validity of Facial Comparison Training Methods (Facial Identification)