NIJ | NATIONAL INSTITUTE OF JUSTICE | ADVANCING JUSTICE THROUGH SCIENCE

NSF | U.S. National Science Foundation

CARFS | ForensicResearch.org | Center for Advanced Research in Forensic Science

FIU | FLORIDA INTERNATIONAL UNIVERSITY

TEXAS A&M AGRILIFE

SH | Sam Houston State University

Researcher Spotlight

> " I'm excited to work with CARFS because it provides a unique platform for collaborative research that can have a real-world impact. "

Capabilities
- Identification of NPS and emerging drug threats
- Biomarker identification (warfare agents, drugs of abuse)
- Metabolism identification and structural identification
- Drug stability in toxicological matrices
- Human performance toxicology
- Postmortem toxicology/medicolegal death investigation
- Postmortem distribution (PMR)
- Alternative/challenging biological matrices
- Identification of drugs in hair and oral fluid
- Improved methods for cyanide biomarker detection
- Improved HRMS drug screening
- Metabolomics

Research Interests
- Novel psychoactive substances and Polydrug trends
- Sedative hypnotics
- Alternative matrices
- Postmortem toxicology and drug metabolism
- Impaired driving
- Ion suppression/enhancement
- Method validation workflow assessment

Advanced Instrumentation
- LC-Q/TOF-MS
- LC-MS/MS
- Direct-inject/syringe infusion capabilities for LC/MS platforms
- HS-GC/FID
- GC/MS
- ELISA/Microplate spectrophotometry

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