



ASCLD FRC Lightning Talks

Oral Fluid Toxicology

Thursday December 16th, 2021, 1:00 EST, WebEx

Register at: <https://www.ascld.org/forensic-research-committee/>



Oral Fluid & DUID

Madeline Swortwood, Assistant Professor, Sam Houston State University

Oral fluid is an emerging alternative matrix in forensic toxicology that can be easily collected roadside for driving under the influence of drugs (DUID) investigations. Recommended scope and cutoffs and application to cases will be discussed.



Application of QuEChERS Extraction to Postmortem Oral Cavity Fluid

Joseph Cox, PhD Candidate, West Virginia University

Postmortem oral cavity fluid is emerging as an alternative postmortem matrix that allows for quick collection and provides a corroborating window of detection for blood and urine. The presented work is for a validation of a QuEChERS extraction and LC-MS/MS analysis. The extraction protocol was also applied to 27 authentic postmortem oral cavity fluid samples provided by SteelFusion laboratories.



Dried Oral Fluid for Drug Identification

Roberta Gorziza, Post-Doctoral Researcher, Florida International University

Dried oral fluid spots (DOFS) have been studied as an alternative sample collection method for drug identification. It could be applied for recent drug use monitoring in programs such as driving under the influence of drugs, for example. A direct liquid extraction from a filter paper was assessed for a suite of drugs of abuse, and a full method validation for drug detection and quantification was performed in a LC-MS/MS instrument.