

WS07: Choosing Wisely: How Alternative Biological Matrices Shape and Support Forensic Interpretation**Date:** Monday, October 27**Time:** 1:30 – 5:30 PM**Audience Knowledge:** Intermediate - Involves more advanced concepts requiring some technical working knowledge or prior exposure to the subject matter**Rates:**

Membership	Early Bird (June 25 - Sep 10)	Late (Begins Sept 11)	Onsite (Begins Oct 9)
Member	\$150	\$175	\$200
Student	\$150	\$175	\$200
Non-Member	\$200	\$225	\$250

Workshop Chairs:

Eduardo de Campos, Ph.D.

Assistant Professor

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Ana Pego, Ph.D.

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Alternative biological matrices have been more widely explored in the last few years due to multiple factors such as less invasive collections and/or longer detection windows compared to blood and urine. Therefore, the applications in toxicological analysis can provide complementary information and assist in investigations. This workshop will focus on oral fluid, meconium, umbilical cord, hair, bladder wash, and tissues. Sample collection approaches and preparation will be discussed, as well as unique approaches specific to each matrix (e.g., decontamination of hair specimens). Insights into the interpretation of drug concentrations in these matrices will also be discussed. Examples of recent applications of these matrices in toxicological analysis will be presented.

Learning Objectives

1. Discuss the advantages and limitations of oral fluid, meconium, umbilical cord, hair, bladder wash and tissues in forensic toxicological analyses.
2. Identify typical and unique analytical procedures required in the determination of drugs in oral fluid, meconium, umbilical cord, hair, bladder wash and tissues.
3. Understand the analytical and interpretive aspects of incorporating alternative matrices in forensic casework in comparison to blood and urine.

Speakers

Marilyn Huestis, Ph.D.

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Luke Rodda, Ph.D.

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Workshop Agenda

Time	Topic	Speaker
1:30 – 1:45 PM	Welcome	Eduardo de Campos and Ana Pego
1:45 – 2:20 PM	Oral Fluid	Marilyn Huestis
2:20 - 2:55 PM	Meconium and Umbilical Cord	Marta Concheiro-Guisan
2:55 – 3:30 PM	Hair	Ana Pego
3:30 – 4:00 PM	Break	
4:00 – 4:35 PM	Bladder Wash	Luke Rodda
4:35 – 5:10 PM	Tissues	Britni Skillman
5:10 – 5:30 PM	Panel Discussion	All speakers