

Workshop #9: Recent Research on the Semi-Synthetic Cannabinoids Δ 8-THC, THCO, and HHC**Date: Tuesday October 29, 2024****Time: 8:00 AM – 12:00 PM****Rates:**

MEMBER RATES		
Early Bird Registration June 26 – September 11 \$150	Late Registration Begins September 12 \$175	On-site Registration Begins October 10 \$200
NON – MEMBER RATES		
Early Bird Registration June 26 – September 11 \$200	Late Registration Begins September 12 \$225	On-site Registration Begins October 10 \$250

Chairs

Szabolcs Sofalvi, MS

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Svante Vikingsson, PhD

Senior Research Forensic Scientist

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svikingsson@rti.org**Abstract**

Semi-synthetic cannabinoids are a rapidly evolving drug class that have gained a lot of popularity in a very short time in both the US and the rest of the world. The first common semi-synthetic cannabinoid was Δ 8-THC, but lately THCO (aka. THC-O-acetate) and HHC have emerged as well. Toxicologists can expect to encounter these drugs in their casework, but our ability to analyze and interpret results for these drugs is limited by knowledge gaps regarding separation, effects, potency, and metabolism. Research to fill these gaps is being conducted both in the US and abroad. In this workshop, sponsored by the NPS Committee, we have brought together experts to discuss the evolving market for semi-synthetic cannabinoids, the analytical challenges, and recent research. The workshop will include recaps of the pharmacology and potency of Δ 8-THC, THCO, and HHC as well as the latest research from controlled purchases, clinical studies, and in vitro studies.

Learning Objectives

1. After attending this workshop, attendees will understand the driving force of the semi-synthetic cannabinoid market and how it is evolving.
2. After attending this workshop, attendees will be able to evaluate their analytical methods for semi-synthetic cannabinoids and identify potential risks.
3. After attending this workshop, attendees will be able to apply the latest research to the interpretation of semi-synthetic cannabinoid results.

Faculty

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Audience Knowledge Level

Intermediate

Workshop Agenda

Time	Topic	Speaker
8:00-8:05 am	Welcome and objectives	Szabolcs Sofalvi & Svante Vikingsson
8:05-8:25 am	The semi-synthetic cannabinoid market	Michelle Peace
8:25-8:40 am	What's out there on the cannabinoid market?	Michelle Peace & Ryan Vandrey
8:40-9:00 am	Around the Ring - THC Isomers from Semi-Synthetic Production	Jeffrey Williams
9:00-9:10 am	Pharmacology and potency of $\Delta 8$ -THC	Ryan Vandrey
9:10-9:30 am	Results from $\Delta 8$ -THC dosing study	Ryan Vandrey
9:30-9:40 am	Pharmacology and potency of THC-acetates	Svante Vikingsson
9:40-10:00 am	Metabolism of $\Delta 8$ -THCO and $\Delta 9$ -THCO.	Ya-Chih (Jessica) Cheng
10:00-10:30 am	Break	
10:30-10:40 am	Pharmacology and potency of HHC	Robert Kronstrand
10:40-11:00 am	Studies on HHC metabolism and potency	Robert Kronstrand
11:00-11:30 am	Analytical challenges of semi-synthetic cannabinoids	Szabolcs Sofalvi
11:30-11:50 am	Screening for semi-synthetic cannabinoids by immunoassay	Amy L Patton
11:50-12:00 pm	End reflections and questions, discussion with speakers	Szabolcs Sofalvi & Svante Vikingsson