

## MADELEINE J. SWORTWOOD, PH.D.

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### EDUCATION

**Ph.D. in Chemistry** **2013**

*Florida International University, Miami, FL*

Specialty Track: Forensic Science

Dissertation: “Comprehensive Forensic Toxicological Analysis of Designer Drugs”

**B.A. in Biochemistry** **2009**

*Duquesne University, Pittsburgh, PA*

Minor: Biology

Magna Cum Laude

### RESEARCH EXPERIENCE AND EMPLOYMENT

**Director of Graduate Programs** **2018 – present**

*Forensic Science Department, College of Criminal Justice, Sam Houston State University, Huntsville, TX*

**Assistant Professor** **2016 – present**

*Forensic Science Department, College of Criminal Justice, Sam Houston State University, Huntsville, TX*

**Postdoctoral Fellow** **2014 – 2016**

*Clinical Pharmacology and Therapeutics Branch, National Institute on Drug Abuse, Intramural Research Program, National Institutes of Health, Baltimore, MD*

**Toxicologist I** **2012 – 2013**

*Miami-Dade County Medical Examiner, Toxicology Laboratory, Miami, FL*

### SELECT PUBLICATIONS

Smith C, Truver MT, **Swortwood MJ**. Quantification of U-47700 and its Metabolites in Plasma by LC-MS/MS. *Journal of Chromatography B* 2019; 1112:41-47.

Palmquist L, **Swortwood MJ**. Data-independent Screening Method for 14 Fentanyl Analogs in Whole Blood and Oral Fluid using LC-QTOF-MS. *Forensic Science International* 2019; 297:189-197.

Lowry J, Truver MT, **Swortwood MJ**. Quantification of Seven Novel Synthetic Opioids in Blood Using LC-MS/MS. *Forensic Toxicology* 2019; 37(1):215-223.

Truver MT and **Swortwood MJ**. Quantitative Analysis of Novel Synthetic Opioids, Morphine, and Buprenorphine in Oral Fluid by LC-MS/MS. *Journal of Analytical Toxicology* 2018; 42:554-561.

Powers D, Erickson S, **Swortwood MJ**. Quantification of morphine, codeine, and thebaine in home-brewed poppy seed tea by LC-MS/MS. *Journal of Forensic Sciences* 2018; 63(4):1229-1235.

**Swortwood MJ**, Newmeyer MN, Abulseoud OA, Andersson M, Barnes AJ, Scheidweiler KB, Huestis MA. On-site oral fluid  $\Delta^9$ -tetrahydrocannabinol (THC) screening after controlled smoked, vaporized, and oral cannabis administration. *Forensic Toxicology* 2017; 35(1):133-145.

**Swortwood MJ**, Newmeyer MN, Abulseoud OA, Scheidweiler KB, Huestis MA. Cannabinoid disposition in oral fluid after controlled smoked, vaporized, and oral cannabis administration. *Drug Testing and Analysis* 2016; 9(6):905-915.

**Swortwood MJ**, Scheidweiler KB, Barnes AJ, Jansson LM, Huestis MA. Simultaneous quantification of buprenorphine, naloxone and phase I and II metabolites in plasma and breastmilk by LC-MS/MS. *Journal of Chromatography A* 2016; 1446:70-77.

**Swortwood MJ**, Ellefsen KN, Wohlfarth A, Diao X, Concheiro M, Kronstrand R, Huestis MA. First metabolic profile of PV8, a novel synthetic cathinone, in human hepatocytes and urine by high-resolution mass spectrometry. *Analytical and Bioanalytical Chemistry* 2016; 408(18):4845-4856.

**Swortwood MJ**, Carlier J, Ellefsen KN, Wohlfarth A, Diao X, Concheiro M, Kronstrand R, Huestis MA. In vitro, in vivo and in silico metabolic profiling of  $\alpha$ -pyrrolidinopentiothiophenone, a novel thiophene stimulant. *Bioanalysis* 2016; 8(1):65-82.

Ellefsen KN, Wohlfarth A, **Swortwood MJ**, Diao X, Concheiro M, Huestis MA. 4-Methoxy- $\alpha$ -PVP: in silico prediction, metabolic stability, and metabolite identification by human hepatocyte incubation and high-resolution mass spectrometry. *Forensic Toxicology* 2016; 34:61-75.

Karshner EL, **Swortwood MJ**, Hirvonen J, Goodwin RS, Bosker WB, Ramaekers JG, Huestis MA. Extended plasma cannabinoid excretion in chronic frequent cannabis smokers during sustained abstinence and correlation with psychomotor performance. *Drug Testing and Analysis* 2016; 8(7):682-689.

**Swortwood MJ**, Hearn WL, DeCaprio AP. Cross-reactivity of designer drugs, including cathinone derivatives, in commercial enzyme-linked immunosorbent assays. *Drug Testing and Analysis* 2014; 6(7-8):716-727.

**Swortwood MJ**, Boland DM, DeCaprio AP. Determination of 32 cathinone derivatives and other designer drugs in serum by comprehensive LC-QQQ-MS/MS analysis. *Analytical and Bioanalytical Chemistry* 2013; 405(4):1383-1397.

#### PROFESSIONAL MEMBERSHIPS

Organization of Scientific Area Committees, Toxicology Subcommittee	2017 – Present
Society of Forensic Toxicologists	2011 – Present
American Academy of Forensic Sciences	2011 – Present