

Grace R. Williams, Ph.D



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Education

2006-2010 Bachelor of Arts, Department of Chemistry. University of North Carolina at Asheville. Asheville, NC.

2012-2017 Doctorate of Philosophy, Department of Pharmacology and Experimental Therapeutics. Medical University of South Carolina, Charleston, SC.

2017-2019 ComACC Clinical Chemistry Fellow. Dartmouth-Hitchcock Medical Center, Lebanon, NH.

Licenses & Certifications

2021 Diplomate of the American Board of Clinical Chemistry (DABCC)
2024 Fellow of the Academy of Diagnostic and Laboratory Medicine (FADLM)

Professional Service (outside)

Association for Diagnostics & Laboratory Medicine

- 2024 Chairperson of the Capital Section

Clinical and Laboratory Standards Institute (CLSI)

- Member- Pre-Examination Processes Expert Panel,
- Chair-holder- Document Development Committee EP:37 Supplemental Tables for Interference Testing in Chemistry.

International Federation of Clinical Chemistry and Laboratory Medicine

- Member: Workgroup for Commutability in Metrological Traceability (WG-CMT)

Selected Publications

Peer Reviewed Publications

Williams GR, Poklis JL, Medrano F, and Wolf CE. Detection of 58 Fentanyl Analogs using Lin Zhi and Immunalysis HEIA Fentanyl Immunoassays. 2024. (*In preparation*)

Williams GR and Bachmann, LE. Interference of Ascorbate in Clinical Chemistry Assays. 2024. (*In preparation*)

Wolf CE, Pokhai AA, Poklis JL, **Williams GR**. The Cross Reactivity of Cannabinoid Analogs (Delta-8 THC8- THC, Delta-10 THC10-THC and CBD), and their metabolites, and Chiral Carboxy HHC metabolites in Urine of Six Commercially Available Homogeneous Immunoassays. *J Anal Toxicol* 2023; doi: 10.1093/jat/bkad059.

Pokhai AA, Poklis JL, **Williams GR**, Wolf CE. Preanalytical Stability of Emerging Cannabinoid Analogs (Delta-8 THC and Delta-10 THC) and their Metabolites in Urine. *J Anal Toxicol* 2023 doi: 10.1093/jat/bkad061.

Williams GR, Akala Modesola, and Wolf CE. Detection of 58 Fentanyl Analogs using ARK Fentanyl II and Immunalysis Fentanyl Immunoassays. *Clin Biochem* 2023;113:45-51. doi: 10.1016/j.clinbiochem.2023.01.001.

Williams GR, Downs JW, Wolf CE, Cumpston KL, Tobarran N, Wills BK, Bachmann M, Evaluation of Strontium Interference in Calcium Measurement Procedures and Content in Supplements as Measured by ICP-MS. *J Appl Lab Med* 2023;8(2):307-318. doi: 10.1093/jalm/jfac092

Williams GR, Tsongalis GJ, Lewis LD, Barney RE, Cook LJ, Geno KA, Nerenz RD, Potential Impact of Pharmacogenomic Single Nucleotide Variants in a Rural Caucasian Population, *J Appl Lab Med* 2023;8(2):251-263. doi: 10.1093/jalm/jfac091.

Provost RG, Downs JW, Wolf CE, and **Williams GR**; The high cost of low quality: Recurring hypoglycemia in a 63-yo man. *Clin Chem* 2021;67(11):1450-1454. doi: 10.1093/clinchem/hvab174.

Downs JW, Wolf CE, **Williams GR**, Cumpston KL, Kershner E, and Wills BK, Negligible Nux Vomica: Homeopathic Nux Vomica Remedies Don't Contain any Strychnine? *Toxicon* 2021;200:1-2. doi: 10.1016/j.toxicon.2021.06.014

Williams GR, Cook L, Lewis LD, Tsongalis GJ, Nerenz RD. Clinical Validation of a 106-SNV MALDI-ToF MS Pharmacogenomic Panel. *J Appl Lab Med*. 2020;5(3):454-466. doi: 10.1093/jalm/jfaa018.

Book Chapters and Monographs

Williams GR and Wolf CE. Fentanyl Contamination in Street Drugs. Clinical and Forensic Toxicology News. Mar 2023. (Quarterly, the Association for Diagnostics & Laboratory Medicine (formerly AACC)/CAP), pages. Available from <https://www.aacc.org/science-and-research/clinical-and-forensic-toxicology-news/archives/2023/march-2021>

Williams GR and Downs JW. Magnesium. Patty's Industrial Hygiene and Toxicology (7th edition) (In publishing - Accepted 2023)

Williams GR, What operational procedures are essential for clinical laboratory infrastructure standardization? AACCC Academy Scientific Short, December 2022. Available from: <https://www.aacc.org/science-and-research/scientific-shorts/2022/what-operational-procedures-are-essential-for-clinical-laboratory-infrastructure-standardization>