

# Grace R. Williams, PhD



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## Education

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

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

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

## Licenses & Certifications

2024 Fellow of the Academy of Diagnostic and Laboratory Medicine (FADLM)

2024 Diplomat of the American Board of Clinical Chemistry (DABCC) Clinical Toxicology

2021 Diplomat of the American Board of Clinical Chemistry (DABCC) Clinical Chemistry

## Professional Service (outside)

2026 Vice Chair, Chemistry and Toxicology Expert Panel, Clinical and Laboratory Standards Institute (CLSI)

2025 Education Representative, Therapeutic Drug Monitoring & Toxicology Division of the Association for Diagnostics & Laboratory Medicine

2025 Past-Chairperson of the Capital Section, Association for Diagnostics & Laboratory Medicine

2024 - 2025 Member, Chemistry and Toxicology Expert Panel, Clinical and Laboratory Standards Institute (CLSI)

2022 - 2025 Chair-holder, Document Development Committee EP:37 Supplemental Tables for Interference Testing in Chemistry, Clinical and Laboratory Standards Institute (CLSI)

## Selected Publications

### *Peer Reviewed Publications*

Wolf CE, Poklis JL, and **Williams GR**. PEth in Review: A Brief History of Phosphatidylethanol Discovery and Analysis. *J Chrom B*. 2026 (*In Revision*)

**Williams GR** and Way E. Anti-Seizure Medications for Pediatric Patients. 2026 *Clinics in Laboratory Medicine (In Revision)*

**Williams GR**, Keller J, Gailliot C, Poklis JL, Prajapati V, Del Baugh R, Sanford K, Nanco C, and Wolf CE. Prevalence of High Phosphatidylethanol (PEth) Concentrations in a Blood Transfusion Product. 2025. (*Submitted*)

**Williams GR**, Poklis JL, Medrano F, and Wolf CE. Detection of 216 Fentanyl Analogs and Opioids using Four Commercial Fentanyl Immunoassays. 2025. *Clin Biochem* 2025; 140. Doi: <https://doi.org/10.1016/j.clinbiochem.2025.111032>

**Williams GR** and Gin G. Interference of Ascorbate in Clinical Chemistry Assays. (*Accepted- Clinica Chimica Acta 2026*)

Walsh ME, **Williams GR**, Jannetto PJ, and Geno KA. Evaluating Updated Fentanyl Immunoassays for Loperamide Interference. *J Appl Lab Med* 2025; Aug 20;jfaf110. doi: 10.1093/jalm/jfaf110

**Williams GR** (Chairholder), Geno KA, Jordan S, Weideck CM, Maus A, Neiens P, and Kellogg M. CLSI. Endogenous and Exogenous Interferents. CLSI database EP37. Clinical and Laboratory Standards Institute, 2024. <https://clsi.org/standards/products/subscriptions/documents/ep37-database/>

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

### *Book Chapters and Monographs*

Strathmann FG, **Williams GR**, and Blum LM. Toxic Elements. In Rifai N, Horvath HR, and Wittwer CT (Eds.) *Tietz Textbook of Clinical Chemistry and Molecular Diagnostics* (7th ed., pp. 888- 924) Elsevier. *In Publishing*

**Williams GR**. Arsenic: A Chronic Concern Clinical and Forensic Toxicology News. (Quarterly, the Association for Diagnostics & Laboratory Medicine (formerly AACC)/CAP) Mar 2025

**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) 2023

**Williams GR**, What operational procedures are essential for clinical laboratory infrastructure standardization? AACC 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>