

William C. Zamboni, Pharm.D., Ph.D.
Associate Professor
UNC Eshelman School of Pharmacy
UNC Lineberger Comprehensive Cancer Center
University of North Carolina, Chapel Hill, NC

William Zamboni received his Bachelor of Science, Doctor of Pharmacy and Doctor of Philosophy degrees from the University of Pittsburgh School of Pharmacy, in Pittsburgh, PA. He completed his Oncology Residency at the Warren G. Magnuson Clinical Center, National Institutes of Health, in Bethesda, MD and his Research Fellowship at the Department of Pharmaceutical Sciences, St. Jude Children's Research Hospital, in Memphis, TN.

Currently, he is an Associate Professor in the School of Pharmacy and UNC Lineberger Comprehensive Cancer Center. Dr. Zamboni's research program is part of the Division of Pharmacotherapy and Experimental Therapeutics in the UNC Eshelman School of Pharmacy and Molecular Therapeutics in the UNC Lineberger Comprehensive Cancer Center. He is the Director of UNC GLP Bioanalytical Facility and the Director of the Translational Oncology and Nanoparticle Drug Development Initiative (TOND₂I) Lab at the University of North Carolina in Chapel Hill. He is also the Co-Director of the North Carolina Biomedical Innovation Network (NCBIN) for GLP toxicology and pharmacology studies of small molecule and nanoparticle agents.

He has been involved in translational studies of anticancer agents for several years. His research interests focus on the application of pharmacokinetic, pharmacodynamic, and pharmacogenetic principles in the optimization of the chemotherapeutic treatment of cancer.

A second focus of his research is on the developments of nanosomal and nanoparticle anticancer agents and evaluating the relationship between the disposition of these agents and the mononuclear phagocyte system. He has developed methods and technologies to differentiate between the inactive-encapsulate and active-release forms of the drugs in plasma, tissues and tumors. He also is evaluating potential phenotypic probes of the MPS as predictors of the pharmacokinetic and pharmacodynamic disposition of nanosomal and nanoparticles.