



Qiao Zhan, PhD

Sr. Research Chemist

Preclinical Pharmaceutical Sciences



Dr. Qiao Zhan brings a distinctive blend of more than 20 years of experience in mass spectrometry (MS) and more than 10 years of industrial experience in bioanalytical science to his work in RTI Health Solutions' Preclinical Pharmaceutical Sciences. Specializing in liquid chromatography with tandem mass spectrometric (LC/MS/MS) and matrix-assisted laser desorption/ionization time-of-flight

MS, he has the knowledge and hands-on experience to ensure that RTI-HS's analytical methods operate at maximum sensitivity and reproducibility. As a study director, Dr. Zhan has managed and conducted methods development, methods validation, and bioanalysis to support GLP-compliant preclinical and clinical trials. With an eye to the U.S. Food and Drug Administration's regulatory requirements and a reputation for meeting time and budgetary requirements, Dr. Zhan consistently provides his clients with high-quality analytical data for their drug development projects.

Areas of Expertise

- GLP bioanalysis
- Methods development/validation
- Metabolite identification
- Structure elucidation

Experience

Dr. Zhan began his career as a research associate at Vanderbilt University, after which he served as senior scientist at Triangle Laboratories, Inc., in Durham, NC, where he conducted bioanalysis to support preclinical and clinical studies. During this time, he developed standard operating procedures and trained production staff while leading Triangle Laboratories' methods development effort for GLP-compliant drug analyses using LC/MS/MS and gas chromatography/mass spectrometry (GC/MS).

Since 2003, Dr. Zhan's role as senior research chemist and supervisor of mass spectrometry at RTI-HS has given him the opportunity to both supervise and operate various analytical instruments, including LC/MS/MS and GC/MS systems used for qualitative and quantitative chemical analyses (e.g., metabolite identification) in complex biological matrices. He has extensive experience in sample cleanup, high-performance liquid chromatography chiral separation, multiplexing high throughput, and developing methods with extremely low quantitation limits. He is also proficient in the biomarker platform that comprises the essential assays of organic, amino, free, and total fatty acids; acylcarnitine/carnitines; and acyl-CoAs in plasma and liver tissue.

Contact

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Dr. Zhan has authored or co-authored a number of published, peer-reviewed articles in journals such as *Toxicology and Applied Pharmacology* and *Analytical Chemistry*, and he has presented his work at venues including the American Association of Pharmaceutical Scientists Annual Meeting and the American Society for Mass Spectrometry Annual Conference on Mass Spectrometry and Allied Topics.

A native of Beijing, China, Dr. Zhan earned his PhD in analytical chemistry from the Swiss Federal Institute of Technology in Zurich (ETHZ). He is a member of the American Society of Mass Spectrometry.

**For information about
bioanalytical chemistry
services, please contact**

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