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iC42 Clinical Research & Development is a cutting- edge bioanalytical resource and Service Center at the University of Colorado that was established by the School of Medicine in the Department of Anesthesiology in 2001. It combines quantitative mass spectrometry (drugs, drug metabolites, endogenous compounds and large molecules), metabolomics (LC-MS, GC-MS and magnetic resonance spectroscopy-based) and proteomics under one roof, which makes it a very unique facility. Our laboratory is compliant with the rules of good laboratory practice (cGLP, 21 CFR part 58) and is accredited by the College of American Pathologists (LAP number 7176093, AU-ID 1374604, CLIA 06D0985306). With iC42 Toxicology this includes a state-of-the-art clinical toxicology and therapeutic drug monitoring laboratory. All analyses are carried out following our standard operating procedures, which are based on all applicable CAP, CLSI, ICH, OECD and FDA guidelines. Our laboratory also serves as an analytical resource for the biotech and pharmaceutical industry and is audited by sponsors on a regular basis. iC42 Clinical Research and Development currently has 17 high-end mass spectrometry systems (e.g. Sciex API4000, 5000, 5500, 5500+, 5600+ Triple-time-of-flight high-resolution MS, 6500, 7500, 7500+, and a ThermoFisher Orbitrap in combination with Agilent series 1200, 1260 and 1290 HPLC and U-HPLC systems) as well as Hamilton (Star and Starlet) and OpenTrons robotics, ZenQMS (quality management system) and a Watson laboratory information management system.