

**Staff Associate—LCMS
Biomarkers Core Laboratory
Irving Institute for Clinical and Translational Research**

Summary Description:

The Biomarkers Core Laboratory at the Irving Institute for Clinical and Translational Research, Columbia University Medical Center is seeking two Staff Associates with expertise in the field of targeted metabolomics, and lipidomics. The candidates will develop, validate and implement targeted LCMS based assays for lipidomics, endogenous metabolites and small molecule drugs. The positions require a strong background in biological mass spectrometry with technical expertise and knowledge in metabolomics, lipidomics and substantial training in targeted metabolite quantitation in diverse clinical samples using LC-MS/MS platforms.

Minimum Qualifications:

A minimum of 3 years of professional experience in mass spectrometric analysis of lipids, metabolites, and small molecule drugs. Master's degree is preferred.

Essential Duties and Responsibilities:

- Develop and validate targeted, MRM based LCMS assays for lipids, metabolites, and small molecule drugs according to FDA guidelines.
- Perform targeted metabolomics and lipidomics analysis of samples from various biological matrices.
- Develop and customize sample preparation protocols for complex samples.
- Perform QC monitoring, data processing, and reports generation.
- Daily operation of the LC-MS/MS instruments; including sample analysis, routine maintenance and troubleshooting.
- Interact with clients to support sample management, study design and data interpretation.

Preferred qualifications:

- Proven hands-on experience in setting up well-validated, targeted LCMS assays for lipids and endogenous metabolites.
- Expertise in metabolite extraction techniques from tissues and other matrices; extensive experience in lipidomics sample preparation.
- Hands-on expertise in operating, maintaining and troubleshooting LCMS triple quad instruments (Waters and Agilent preferred). Experience in GCMS is desirable.
- Demonstrated experience with data acquisition and quantitation softwares for targeted analysis.
- Excellent problem solving, technical, and operational skills related to LC-MS/MS platforms and sample processing.
- Excellent communication and interpersonal skills.
- Ability to maintain effective working relationships with supervisors, researchers, staff and other personnel.

The compensation is commensurate with experience.