Associate Researcher Position in Mass Spectrometry and Exposomics

Employment Type: Full time, 1 year with the possibility to extend, start date of Spring 2019

The Senator Frank R. Lautenberg Environmental Health Sciences Laboratory in the Department of Environmental Medicine and Public Health at the Icahn School of Medicine at Mount Sinai seeks applications for multiple associate researcher positions that will involve untargeted profiling of endogenous and exogenous metabolites, nutrients and toxins in human tissues and other matrices by high-resolution mass spectrometry (HRMS). The position will provide assistance in LC-HRMS and GC-HRMS analysis in support of both research and service activities supporting precision medicine and exposome research. Projects include developing novel untargeted analysis techniques for various biological tissues and samples, development of samplers to assess exposures and studies focused on environmental determinants of human disease. The facility currently houses two UHPLC-HRMS instruments (Agilent 6550 and 6546), one UHPLC-Orbitrap (Thermo Q-Exactive HFX) and one GC-Orbitrap (Thermo GC Q-Exactive), and has plans to strengthen its technology base further.

Responsibilities include:

- Receipt, cataloging and inventory of environmental and biological samples
- Ordering laboratory
- Preparing and analyzing biological samples with LC-HRMS or GC-HRMS
- Perform sample analysis QA/QC
- Operating and maintaining GC or LC instrumentation
- Summarization and reporting of targeted and untargeted HRMS data

Knowledge/Skills:
The ideal candidate will possess a bachelor’s degree or higher in areas related to metabolomics, analytical chemistry, biochemistry, mass spectrometry or environmental health related fields. Candidate will have hands-on HRMS experience including untargeted data acquisition and analysis. They must also have strong organizational and time management skills, with the ability to independently meet project timelines. Experience with MassHunter, TraceFinder and R strongly preferred. While preference will be given to scientists with the expertise summarized above, we are willing to train exceptionally motivated individuals with strong analytical and communication skills.

Our laboratory is located on Central Park in New York City in the Icahn School of Medicine and is affiliated with the Mount Sinai Health System, the largest health care provider in New York. The department also includes the new Institute for Exposomic Research, the first in the world focused on exposomics. The team-science approach in this department provides opportunities to co-author publications with leading collaborators. Work related experience will be considered in determining level and salary.
Application process:
Interested candidates should email a cover letter including a summary for research interests and experience, as well as their resume or curriculum vitae, to Dr. Douglas Walker (douglas.walker@mssm.edu).