Current estimates suggest that only 10-20% of diseases have a strong genetic component, with the remaining 80-90% attributable to environmental exposures or gene-environment interactions. Efforts are now underway to develop high-throughput and quantitative mass spectrometry-based analytical strategies for untargeted environmental chemical surveillance and bioeffect monitoring.

During this live webinar event, Dr. Douglas Walker will present advanced mass spectrometry approaches for measuring the metabolic phenotyping providing a robust foundation for exposome research. This will facilitate development of a knowledge base of environmental chemicals, their distribution and associated effects among human populations.

What you will learn:

- Learn about possibilities to develop a systems-biology based approach to understanding chemical toxicology in humans
- Learn about efforts underway to understand how environmental factors contribute to disease susceptibility and progression is required for mitigating risk, developing effective treatment strategies and identifying at risk populations.
- Learn to measure and characterize upwards of 250 environmental pollutants and 1000 metabolites from core nutrient metabolism, lipids, the microbiome, diet-derived chemicals and pharmaceuticals.

Please register to attend the upcoming event:

**Event**

- Advanced Analytical Techniques for Sequencing the Human Exposome
- December 15, 2016
- 11:00 a.m.

**Douglas I. Walker**
- Clinical Biomarkers Laboratory, Emory University School of Medicine
- Department of Civil and Environmental Engineering, Tufts University