An NIH-funded postdoctoral position is immediately available in the Fernandez Lab at the School of Chemistry and Biochemistry, Georgia Institute of Technology (Atlanta, Georgia, USA). This position fits within a project aimed at investigating biomarkers of progression of ovarian cancer using mass spectrometry imaging and LC-MS metabolomics techniques. High-grade serous ovarian cancer is the most common and deadliest type of ovarian cancer. It is diagnosed mostly at an advanced stage at which the cancer has already spread beyond the ovary or the fallopian tube to the abdominal cavity. This advanced-stage diagnosis inevitably causes high mortality. We are currently studying molecular changes associated with early disease both in mouse models that closely mimic human disease, and in banked de-identified human serum samples, with the aim of ultimately designing a robust early stage diagnostic panel. As part of this project, we are also developing new analytical tools to (a) be able to better perform metabolomics of very small (tiny!) samples, such as those obtained in longitudinal studies with animal models, (b) better identify metabolite biomarkers using machine learning-predicted ion mobility collision cross-section values and (c) develop high-throughput targeted metabolomics assays to monitor metabolites important in cancer progression. Interested candidates should send a CV via email to fernandez@gatech.edu.

Check out the publications from the Fernandez lab: https://scholar.google.com/citations?user=PIIoaKMAAAAJ&hl=en

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