



How Nucleic Acid Mass Spectrometry Complements the Needs of Modern Translational Research

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Consultant for



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12:00-1:00 pm

Belfer Research Bldg., Room 302-A

413 East 69th Street, NY, NY 10021

Abstract: Prospects for attractive nucleic acid diagnostics include epigenetics, transcription, metagenomics and somatic DNA variations such as gain of function mutations in oncogenes. All of these characteristics change continually during the lifetime of an individual, and they reflect disease occurrence and prognosis rather than just disease predisposition. This talk will focus on the basics and applications of nucleic acid mass spectrometry in sensitive DNA detection, including cancer somatic mutations, and will describe the particular attractiveness of characterizing these noninvasively in liquid biopsies. This is quite feasible in advanced cancer. It is extremely useful since, by frequent patient monitoring, one can follow the course of therapy and get early warning about recurrence or change in tumor properties. The two major future challenges are generalizing this approach to other disease areas where there are unlikely to be disease-specific somatic mutations, and extending the approach in cancer from late stage diseases to pre-symptomatic diagnosis.

Lunch will be provided

*For more information about this seminar, please contact
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