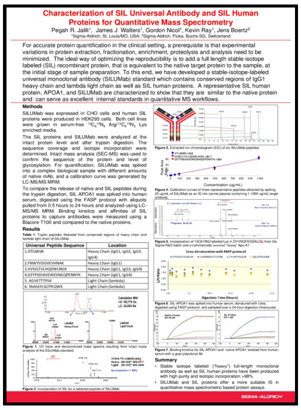
Stable isotope tracing and mass spectrometry.

University of Birmingham - Metabolomics and Isotope Tracing



Description: -
-Stable isotope tracing and mass spectrometry.
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Notes: Thesis(Ph.D.) - University of Birmingham, School of Chemistry.
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Tags: #Stable #Isotope #Mass #Spectrometry #Facility

Analysis of Fatty Acid Metabolism Using Stable Isotope Tracers and Mass Spectrometry

Mass spectrometry MS The primary function of MS is to quantify the abundance of a specific mass of ion that is fragmented from either unlabeled or labeled compounds of interest in a process of ionization in ion source of the MS via either electron impact ionization generating fragmentations to a great extent or chemical impact ionization.

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Extracellular recycling rate is determined as R a FFA minus FFA oxidation rate discussed later in the section Substrate oxidation and.

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As with any model of kinetics, there are several assumptions with the incorporation model, including that the pool size of the product and rate of incorporation of precursor for the early time after the start of the tracer infusion is constant. At isotopic steady state, the unlabeled versus labeled pool size of Y reveals the relative flux from the two different pathways.

Metabolic Tracing Using Stable Isotope

However, our recent study found that during ozonation in the presence of bromide and ammonia, toxicity increased under certain conditions that might be attributed to the formation of nitrogenous byproducts. Protein kinetics The amount of protein in the body the protein pool size is relatively constant because the rates of protein synthesis and breakdown are closely matched over time in normal healthy adults. The dynamic nature of in vivo kinetics of human metabolism at rest and in stressed conditions such as exercise and pathophysiological conditions such as diabetes and cancer can be quantitatively assessed with stable, nonradioactive isotope tracers in conjunction with gas or liquid chromatography mass spectrometry and modeling.

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Four newly formed nitrogenous byproducts were detected, two of which were also detected in Suwannee River natural organic matter SRNOM solution treated under the same ozonation condition.

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