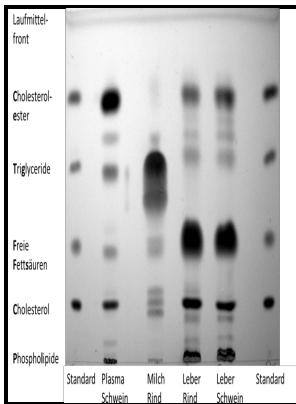


# Stable isotope tracing and mass spectrometry.

University of Birmingham - Metabolic Tracing Using Stable Isotope



Description: -

-Stable isotope tracing and mass spectrometry.

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Notes: Thesis(Ph.D.) - University of Birmingham, School of Chemistry.

This edition was published in 1979



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

## Comparing Stable Isotope Enrichment by Gas Chromatography with Time

This increase in protein synthesis is actually secondary to an increase in protein breakdown because AA derived from protein breakdown provides building blocks for ~80% of newly synthesized proteins.

## Applications of stable, nonradioactive isotope tracers in in vivo human metabolic research

To determine glucose kinetics in a steady state, a glucose tracer for example, 1- 13C-glucose as in Example 2 is continuously infused intravenously following a bolus injection of the same tracer priming dose. For example, there is a progressive loss of muscle mass protein in certain clinical conditions such as burn injury and cancer cachexia as a result of protein breakdown exceeding synthesis. However, when a sample needs to come from an artery such as in an arteriovenous balance study, a catheter needs to be placed directly in an artery.

## Stable Isotope Facility

J Clin Invest 1995; 95: 811—819.

## Smithsonian Institution OUSS

Combining stable isotopes and mass spectrometry allows us to make dynamic measures of metabolism, principally in humans in health and disease. Contact Zach Sharp or Viorel Atudorei to use the facilities in Northrop Hall and Seth Newsome to use the facilities in Castetter Hall. Rapid and precise stable isotope analysis of solid, liquid, and gaseous materials are fundamental to studies in physiology, ecology, hydrology, earth and atmospheric sciences, archaeology, art history, and conservation.

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