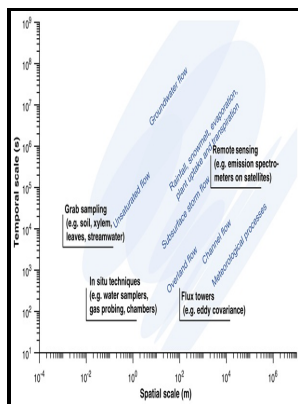


Stable isotope tracing and mass spectrometry.

University of Birmingham - Smithsonian Institution OUSS



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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Mass Spectrometry Facility

R a phenylalanine and R a tyrosine are determined as F divided by E p. With a primed continuous infusion, the magnitude of dilution of this isotope tracer by tracee in the plasma compartment at an isotopic steady state reflects R a tracee of interest in plasma in this example, glucose.

Isotope Ratio Mass Spectrometry (IRMS)

For a given F, R a tracee will be inversely related to E p, such that R a tracee will be higher if the measured value for E p is lower. These elements have one or more isotopes with specific natural distribution patterns of abundance.

Metabolomics and Isotope Tracing

Physiologic hyperinsulinemia stimulates protein synthesis and enhances transport of selected amino acids in human skeletal muscle. Blood samples are collected before the tracer infusion and after reaching E p. Schematic diagram of human stable isotope infusion study.

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Using metabolic tracers, we can trace many aspects of in vivo metabolism. Effects of obesity on substrate utilization during exercise.

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

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Mass Spectrometry Facility

Protein FSR is the fraction of the total protein pool size that has been newly synthesized in a given time. Metab Clin Exp 2004; 53: 128—133. As opposed to our initial intuition, protein synthesis is typically elevated in these clinical conditions.

Quantifying Intermediary Metabolism and Lipogenesis in Cultured Mammalian Cells Using Stable Isotope Tracing and Mass Spectrometry

D Identification of impacted metabolic pathways using the MetaboAnalyst software package. Bradykinin attenuates glucagon-induced leucine oxidation in humans.

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