

Isotope Tracers in Metabolic Research Principles and Practice of Kinetic Analysis



BOOK DETAILS

- Author : Robert R. Wolfe
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BOOK SYNOPSIS

In the past few years, the number of applications of tracers for in vivo biomedical studies has greatly increased. New analytical tools at the genetic and protein levels have spurred this growth, opening the door for a deeper understanding of metabolic events. This in turn promises to yield significant advances in the understanding and treatment of human disease. Now fully revised and expanded, *Isotope Tracers in Metabolic Research, Second Edition* is the established definitive text on stable and radioactive isotope tracers. In unique, multidisciplinary fashion, it presents comprehensive coverage of new methodological, mathematical, and theoretical approaches. This new Second Edition includes: All-new chapters on nuclear magnetic resonance, mass isotopomer analysis, and methods of protein metabolism analysis A completely updated categorized list of over 750 references Major advances in the development of mass isotopomer and positional isotopomer techniques, noninvasive isotope techniques for studying metabolic pathways, hyphenated techniques, and new tracer techniques The latest developments in quantification of DNA synthesis and mass spectrometry spurred by genome sequencing and proteomics New coverage of mathematical modeling Expanded coverage of microdialysis probes, laboratory procedures, and regulatory issues related to human studies In this complete guide to performing tracer studies, the authors systematically cover tracer selection, modeling considerations, sample derivitization, mass spectrometry analysis, and data interpretation. Problems and discussion questions highlight key points in each chapter. *Isotope Tracers in Metabolic Research, Second Edition* offers students and researchers a comprehensive, practical resource for utilizing the latest tracer methodologies.

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