



Molecular Nuclear Medicine

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Condition: New. Publisher/Verlag: Springer, Berlin | The Challenge of Genomics and Proteomics to Clinical Practice | Biochemical transparency of the human body is at the doorstep of advanced technology. Toward this goal the book describes relevant isotopic tracer techniques of nuclear medicine. It deals with quantitatively measuring in vivo biochemical reactions as they occur within homeostatic circuits under control by genes and protein interactions. The text indicates how nuclear medicine can aid clinical researchers and practitioners, human geneticists and pharmacologists in understanding (and affecting) gene-phenotype relationships. Experts give background, techniques and examples in an interdisciplinary approach to regional imaging and in vitro analyses of biochemical reactions. | I Primary Topics.- 1 Measurements of Biochemical Reactions in Vivo.- 2 The Human Genome and Disease.- 3 Functional Genomics and Proteomics: Basics, Opportunities and Challenges.- 4 How Proteins Speak with One Another in Cell Signaling.- 5 Labeled Agents as Tracers and Carriers: Theory and Practice.- 6 Instrumentation for Measuring Metabolism.- 7 Modelling Metabolite and Tracer Kinetics.- 8 Compound Delivery and Local Blood Flows.- II Whole Body Processes.- 9 Endothelium and Compound Transfer.- 10 Coagulation and Peripheral Vascular Disease.- 11 Molecular Imaging of Infection and Inflammation.- 12 Element Metabolism and Body Composition.- 13 The...



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