

Magnetic Resonance Imaging: Methods and Biologic Applications (Methods in Molecular Medicine)



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Leading experts in the use of MRI explain its basic principles and demonstrate its power to understand biological processes with numerous cutting-edge applications. To illustrate its capability to reveal exquisite anatomical detail, the authors discuss MRI applications to developmental biology, mouse phenotyping, and fiber architecture. MRI can also provide information about organ and tissue function based on endogenous cantrast mechanisms. Examples of brain, kidney, and cardiac function are included, as well as applications to neuro and tumor pathophysiology. In addition, the volume demonstrates the use of exogenous contrast material in functional assessment of the lung, noninvasive evaluation of tissue pH, the imaging of metabolic activity or gene expression that occur on a molecular level, and cellular labeling using superparamagnetic iron oxide contrast agents.



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