



Imaging in Cellular and Tissue Engineering (Series in Cellular and Clinical Imaging)

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Details on specific imaging modalities for different cellular and tissue engineering applications are scattered throughout articles and chapters in the literature. Gathering this information into a single reference, **Imaging in Cellular and Tissue Engineering** presents both the fundamentals and state of the art in imaging methods, approaches, and applications in regenerative medicine.

The book underscores the broadening scope of imaging applications in cellular and tissue engineering. It covers a wide range of optical and biological applications, including the repair or replacement of whole tissues (such as bone, cartilage, blood vessels, and bladder) and more novel artificially created support systems (such as artificial pancreas and bioartificial liver). Each chapter describes a particular application, relevant optical instrumentation, physical principles governing the imaging method, and strengths and weaknesses of the technique. The book also presents current and emerging data processing procedures.

As the field of tissue engineering moves from creating simpler outer body parts to more sophisticated internal organs, researchers need to evaluate and control how well the tissues are engineered and integrated into the living body. Suitable for both experts and newcomers in bioengineering and biomedical imaging, this book shows researchers how to apply imaging techniques to next-generation engineered cells and tissues. It helps them assess the suitability of specific imaging modalities for applications with various functional requirements.

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