



Standardisation in Cell and Tissue Engineering: Methods and Protocols (Woodhead Publishing Series in Biomaterials)

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The increased use of biodegradable synthetic or natural scaffolds combined with cells and/or biological molecules, in order to create functional replacement tissue in a damaged tissue site, has led to the need for the development of ‘best practice’ methods in the area of tissue engineering to help ensure the creation of safe, high quality products. Standardisation in cell and tissue engineering introduces concepts and current practice in the field of cell and tissue engineering to a wide audience and aims to provide awareness of the importance of standardisation in this area while suggesting directions for further investigation.

Part one provides an overview of methods for cell and tissue engineering and includes chapters on the fundamentals of cell and matrix biology for tissue engineering, 3D collagen biomatrix development, and control and vascularisation of tissue-engineered constructs. Part two begins with a chapter exploring the methods and protocols of standardisation in cell and tissue engineering before moving on to highlight issues of quality control in cell and tissue engineering, standardised chemical analysis and testing of biomaterials and principles of good laboratory practice (GLP) for in vitro cell culture applications.

Standardisation in cell and tissue engineering is a standard reference for leading research groups, government agencies, regulatory bodies, and researchers and technicians at all levels across the whole range of disciplines using cell culture within the pharmaceutical, biotechnology and biomedical industries.

- Introduces concepts and current practice in the field of cell and tissue engineering
- Highlights the importance of standardisation in cell and tissue engineering and suggests directions for further investigation
- Explores methods and protocols of standardisation in cell and tissue engineering and issues of quality control in cell and tissue engineering

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Editorial Review

Review

"...a comprehensive overview of the current standards in cell and tissue engineering, and biomaterials, which is of interest to a broad public including biologists, biomedical engineers and chemists."--*Biomat.net*, **December 2014**

"A text such as this is needed to begin (at last) to crystalize some of the most common concepts and approaches and alert early entrants or students to the need for, and demands of standardisation...as a teaching primer and as a dip-in reference book, this is a really useful text."--*MaterialsView.com*, **July 1, 2014**

About the Author

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Users Review

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Frances Heath:

Book is to be different for each grade. Book for children until adult are different content. As it is known to us that book is very important normally. The book Standardisation in Cell and Tissue Engineering: Methods and Protocols (Woodhead Publishing Series in Biomaterials) had been making you to know about other know-how and of course you can take more information. It doesn't matter what advantages for you. The publication Standardisation in Cell and Tissue Engineering: Methods and Protocols (Woodhead Publishing Series in Biomaterials) is not only giving you considerably more new information but also to become your friend when you truly feel bored. You can spend your own personal spend time to read your e-book. Try to make relationship with the book Standardisation in Cell and Tissue Engineering: Methods and Protocols (Woodhead Publishing Series in Biomaterials). You never really feel lose out for everything in the event you read some books.

Erin Mohammad:

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Clarissa Holland:

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Marilynn Johnson:

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