



## Strategies in Regenerative Medicine: Integrating Biology with Materials Design

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### Strategies in Regenerative Medicine: Integrating Biology with Materials Design From Springer

The profound transformations occurred in our modern age have been made possible by the unique combination of new technologies. Among them, medicine has completely changed our perception of life. Longevity has been significantly extended and linked to new lifestyles. The negative impact that pathologies and ageing have always had on the quality of our life is now mitigated by the availability of treatments daily applied to many individuals worldwide. For many years, pharmacological and surgical treatments have been supported by the introduction of biomedical devices. Biomedical implants have played a key role in the development of these treatments and achieved the objective of replacing tissue and organ structures and functionalities. Gradually, the scientific and clinical communities have understood that replacement could be improved by materials able to interact with the tissues and to participate in their metabolism and functions. This approach soon led to biomedical implants with improved clinical performances, but also to a new aspiration; rather than replacing damaged tissues and organs scientists and clinicians nowadays aim at their partial or complete regeneration. As a consequence of this ambition, the disciplines of tissue engineering and regenerative medicine have recently emerged. It is the dawn of a fascinating era where scientists from various disciplines, clinicians, and industry will need to intensify their collaborative efforts to provide our society with new and affordable solutions.

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The profound transformations occurred in our modern age have been made possible by the unique combination of new technologies. Among them, medicine has completely changed our perception of life. Longevity has been significantly extended and linked to new lifestyles. The negative impact that pathologies and ageing have always had on the quality of our life is now mitigated by the availability of treatments daily applied to many individuals worldwide. For many years, pharmacological and surgical treatments have been supported by the introduction of biomedical devices. Biomedical implants have played a key role in the development of these treatments and achieved the objective of replacing tissue and organ structures and functionalities. Generally, the scientific and clinical communities have understood that replacement could be improved by materials able to interact with the tissues and to participate in their metabolism and functions. This approach soon led to biomedical implants with improved clinical performances, but also to a new aspiration; rather than replacing damaged tissues and organs scientists and clinicians nowadays aim at their partial or complete regeneration. As a consequence of this ambition, the disciplines of tissue engineering and regenerative medicine have recently emerged. It is the dawn of a fascinating era where scientists from various disciplines, clinicians, and industry will need to intensify their collaborative efforts to provide our society with new and affordable solutions.

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## **Editorial Review**

From the Back Cover

This authoritative book offers a detailed overview of present and future tissue engineering approaches and their contribution to regenerative medicine. It combines comprehensive reviews of the biology and materials science underlying the development and regeneration of different types of tissues with descriptions of current and future strategies in regenerative medicine to meet clinical needs. Each chapter includes typical examples of methodologies and technical solutions as the basis for the most recent scientific findings and biomedical products, tables as mini-databases summarizing the most recent findings, and links to specific websites in the main body of the text to complement a traditional reference list. *Strategies in Regenerative Medicine: Integrating Biology with Materials Design* covers topics from basic biology and materials science to the link between biological processes in tissue regeneration and biomedical device/tissue engineering product performance.

## **Users Review**

**From reader reviews:**

**Nathanael Ma:**

People live in this new time of lifestyle always attempt to and must have the time or they will get great deal of stress from both lifestyle and work. So , if we ask do people have extra time, we will say absolutely sure. People is human not a robot. Then we question again, what kind of activity do you possess when the spare time coming to an individual of course your answer can unlimited right. Then do you ever try this one, reading textbooks. It can be your alternative within spending your spare time, the particular book you have read is *Strategies in Regenerative Medicine: Integrating Biology with Materials Design*.

**Jennifer Frederick:**

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**Brian Alexander:**

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**Jennifer Bryan:**

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