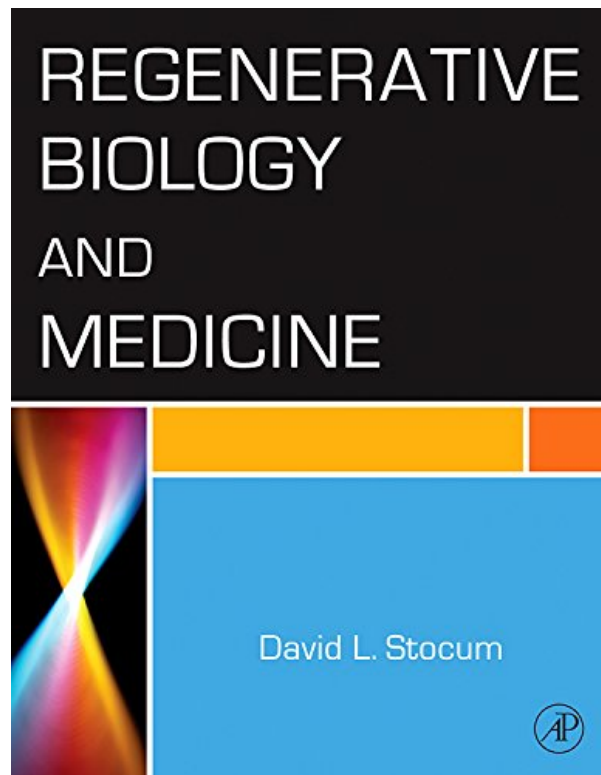


REGENERATIVE BIOLOGY AND MEDICINE

BY DAVID L. STOCUM



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Review

"...a terrific reference for anyone toying with the idea of moving into this field. The text offers an enormous breath of coverage of different systems currently under investigation, and Stocum provides a central theme that pits regenerative ability against fibrosis as a way to conceptually untangle the limited regenerative capacity of humans...Stocum has erected an umbrella large enough for scientists of diverse backgrounds to initiate conceptual cross-talk between those actively involved in the biology of regeneration and those targeting its clinical application."

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The purpose of the book is to bring together in one place the different facets of regenerative biology and medicine while providing the reader with an overview of the basic and clinically-oriented research that is being done. Not only does the content cover a plethora tissues and systems, it also includes information about the developmental plasticity of adult stem cells and the regeneration of appendages.

As part of its balanced presentation, Regenerative Biology and Medicine does address the biological/bioethical issues and challenges involved in the new and exciting field of regenerative biology and medicine.

- *Tissues covered include skin, hair, teeth, cornea, and central neural types
- *Systems presented are digestive, respiratory, urogenital, musculoskeletal, and cardiovascular
- *Includes amphibians as powerful research models
- *Discusses appendage regeneration in amphibians and mammals

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First textbook on regenerative medicine

By Vladimir Mironov

Regenerative medicine is a booming field of biomedical science and technology with great promises. Regenerative medicine conferences, congresses, research centers and companies are growing in numbers like

mushrooms after the rain. However, there is no a single comprehensive textbook on regenerative medicine suitable for teaching course on regenerative medicine. The reviewed book is definitely a important milestone or landmark publication. It is richly illustrated, carefully organized and well written introductory textbook on regenerative medicine created by the great expert in the field of regenerative biology. It pays an equal respect to regenerative biology as a basic science and regenerative medicine as a biomedical technology. Although as usually for first edition of any textbook there is a lot of room for improvement and perfection (for example, information about tissue engineering of heart valves is completely missing), the author who has multi-years practical experience of teaching of such course and several decades doing active research in this field have done fantastic job and accomplished a titanic task of finding, reviewing, compacting and organizing of a huge volume accumulated information and created an excellent introductory textbook on regenerative medicine. This book is highly recommended and it deserves a special award and recognition.

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