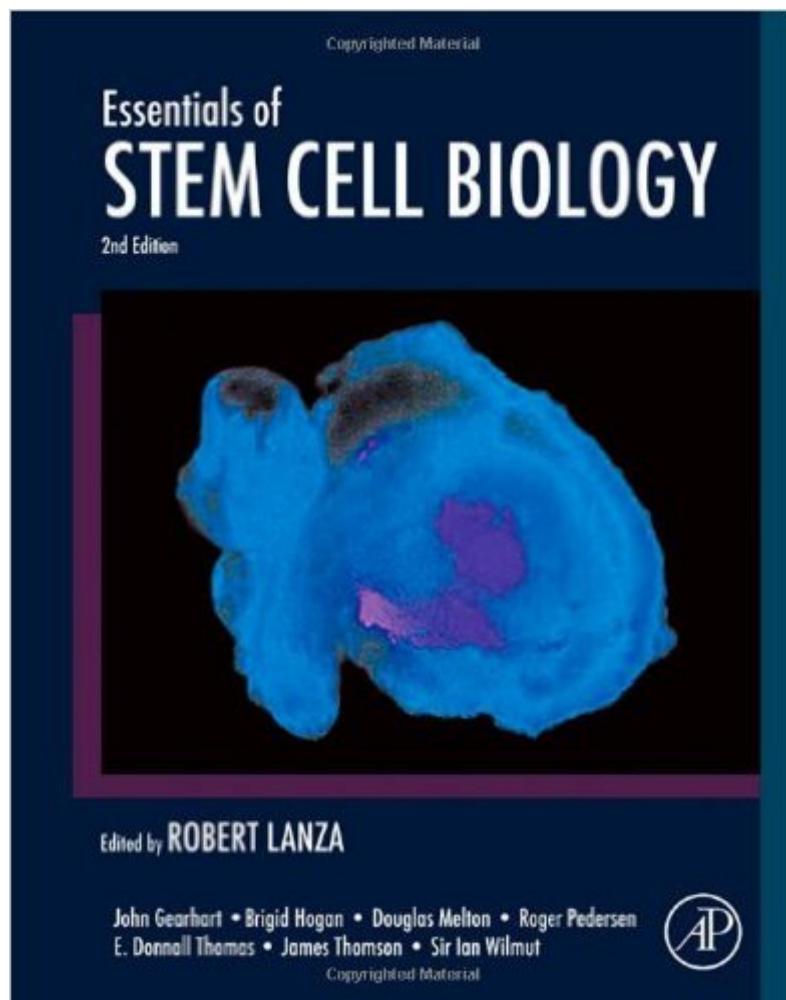


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Essentials Of Stem Cell Biology, Second Edition



Synopsis

First developed as an accessible abridgement of the successful *Handbook of Stem Cells*, *Essentials of Stem Cell Biology* serves the needs of the evolving population of scientists, researchers, practitioners and students that are embracing the latest advances in stem cells. Representing the combined effort of seven editors and more than 200 scholars and scientists whose pioneering work has defined our understanding of stem cells, this book combines the prerequisites for a general understanding of adult and embryonic stem cells with a presentation by the world's experts of the latest research information about specific organ systems. From basic biology/mechanisms, early development, ectoderm, mesoderm, endoderm, methods to application of stem cells to specific human diseases, regulation and ethics, and patient perspectives, no topic in the field of stem cells is left uncovered. Selected for inclusion in *Doody's Core Titles 2013*, an essential collection development tool for health sciences libraries. Contributions by Nobel Laureates and leading international investigators. Includes two entirely new chapters devoted exclusively to induced pluripotent stem (iPS) cells written by the scientists who made the breakthrough. Edited by a world-renowned author and researcher to present a complete story of stem cells in research, in application, and as the subject of political debate. Presented in full color with glossary, highlighted terms, and bibliographic entries replacing references.

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Customer Reviews

With his prior collaborative book, "Principles of Tissue Engineering" this text, "Essentials of Stem

Cell Biology" provides the essential rationale for that curious endeavor of applied biology we call "healthcare". While others are wringing hands and endlessly belaboring cost-effectiveness, access to care, competitive efficacy and other bureaucratic minutia, Bob Lanza has kept his eyes to the stars. Motivated no doubt by the thrill of discovery which truly historical thinkers enjoy, and others have inspired in Dr. Lanza, mankind surely benefits from the fruits of his labors. The contents, of this book, covering a plethora of topics and concepts, is so well organized that one could read it from beginning to end as a novel or piecemeal as queries demand from an encyclopedia. The limits of this text are merely those of a physical bound book itself. I pray the publishers will expand an online edition that can be edited and updated monthly, for that is the speed at which the future's promises emerge. Robert Lanza is that rare individual that knows a story, knows how to tell it well, and bring to practical fruition all its manifest gifts. In this regard he is a kind of Steve Jobs of biology and applied life sciences. Yet, Dr. Lanza has not forgotten his clinical roots. While ideal in its concepts, the data in this book are equally practical since they provide intelligible rationales for the kind of innovative clinical procedures that each individual patient expects and prefers. All the Gaussian frequency distributions, categorical mandates and customs of clinical care, will not fill the void that emerges when a patient asks, "Isn't there anything you can do for me as an individual, Doctor?

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