



Essentials of Stem Cell Biology, Second Edition

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Essentials of Stem Cell Biology, Second Edition From Academic Press

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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Editorial Review

Review

"*Essentials of Stem Cell Biology* belongs on the shelf of every researcher, clinician and student who is interested in the new developments in stem cell research and the treatments that are being developed."

--NEW ENGLAND JOURNAL OF MEDICINE (June 29, 2006)

"5 Stars - This is the best book I've reviewed on stem cell biology...This is the one book to have for anyone interested in the promise of stem cell research. It will provide an excellent resource for years to come."

--Bruce A. Fenderson, Thomas Jefferson University in DOODY'S (June 2006)

From the Back Cover

First developed as an accessible abridgement of the successful *Handbook of Stem Cells*, this book serves the needs of the evolving population of scientists, researchers, practitioners and students that are embracing the latest advances in adult and embryonic stem cell research. Since the last edition was published, stem cell research has evolved into an important research tool, and stem cells have come to represent potential salvation for many people suffering from incurable diseases. Dr. Lanza is a prominent figure not only in the world of life sciences but is recognized publicly through the broad media coverage of his research.

About the Author

Robert Lanza, M.D. is currently Chief Scientific Officer at Advanced Cell Technology, and Adjunct Professor of Surgical Sciences at Wake Forest University School of Medicine. He has several hundred scientific publications and patents, and over 30 books, including *Principles of Tissue Engineering* (1st through 4th Editions), *Methods of Tissue Engineering*, *Principles of Cloning* (1st and 2nd Editions), *Essentials of Stem Cell Biology* (1st and 2nd Editions), *XENO*, *Yearbook of Cell & Tissue Transplantation*, *One World: The Health & Survival of the Human Species in the 21st Century* (as editor, with forewords by C. Everett Koop and former President Jimmy Carter), and *Medical Science & the Advancement of World Health*. Dr. Lanza received his B.A. and M.D. degrees from the University of Pennsylvania, where he was both a University Scholar and Benjamin Franklin Scholar. He is a former Fulbright Scholar, and studied as a student in the laboratory of Richard Hynes (MIT), Jonas Salk (The Salk Institute), and Nobel laureates Gerald Edelman (Rockefeller University) and Rodney Porter (Oxford University). He also worked closely (and coauthored a series of papers) with the late Harvard psychologist B.F. Skinner and heart transplant pioneer Christiaan Barnard. Dr. Lanza's current area of research focuses on the use of stem cells in regenerative medicine.

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