



Essentials of Stem Cell Biology

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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 embracing the latest advances in stem cells. Representing the combined effort of 7 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, and methods to the 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.

- 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 a glossary, highlighted terms, and bibliographic entries replacing references

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Editorial Review

Review

"...serves the needs of the evolving population of scientists, researchers, practitioners, and students embracing the latest advances in stem cells...From basic biology, early development, ectoderm, mesoderm, endoderm, and methods to the 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."--Anticancer Research 34, 2014
"This book offers a thorough review of current research and therapeutic potential in the field of stem cell biology. The focus is on the therapeutic potential of stem cells, with the discussion of the current state of stem cell knowledge and stem cell therapies in various organs and tissues...any scientists interested in studying the field would benefit from this book's thorough treatment of the subject."Rating: 4 Stars--Doody.com, March 7, 2014

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.

The Wake Forest Institute for Regenerative Medicine was the first in the world to engineer and successfully implant an engineered organ in the lab -- bladders. As Director of the Institute, Dr. Atala oversees scientists working on therapies for more than 30 areas of the body, from heart valves and muscle tissue to livers and kidneys. Atala has received the Christopher Columbus Foundation Award, given to a living American who is currently working on a discovery that will significantly affect society. He is listed in Best Doctors in America.

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