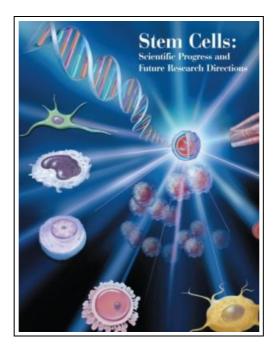
# Stem Cells: Scientific Progress and Future Research Directions (Paperback)



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## Reviews

This sort of ebook is everything and made me hunting ahead of time and more. I am quite late in start reading this one, but better then never. I found out this publication from my dad and i suggested this publication to discover.

(Judge Mills)

## STEM CELLS: SCIENTIFIC PROGRESS AND FUTURE RESEARCH DIRECTIONS (PAPERBACK)



Createspace, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. In February 2001 the Secretary of Health and Human Services requested that the National Institutes of Health prepare a summary report on the state of the science on stem cells. This report was developed in response to his request. It provides the current information about the biology of stem cells derived from all sources-embryo, fetal tissue, and adult. Since 1998, when human pluripotent stem cells were first isolated, research on stem cells has received much public attention, both because of its extraordinary promise and because of relevant legal and ethical issues. Underlying this recent public scrutiny is decades of painstaking work by scientists in many fields, who have been deciphering some of the most fundamental questions about life with the goal of improving health. In the last several decades, investments in basic research have yielded extensive knowledge about the many and complex processes involved in the development of an organism, including the control of cellular development. But many questions remain. How does a single cell-the fertilized egg-give rise to a complex, multi-cellular organism? The question represents a fundamental challenge in developmental biology. Researchers are now seeking to understand in greater detail the genetic factors that regulate cell differentiation in early development. Put simply, stem cells are self-renewing, unspecialized cells that can give rise to multiple types all of specialized cells of the body. The process by which dividing, unspecialized cells are equipped to perform specific functions-muscle contraction or nerve cell communication, for example-is called differentiation, and is fundamental to the development of the mature organism. It is now known that stem cells, in various forms, can be obtained from the embryo, the fetus, and the adult. The report is a review of the...



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