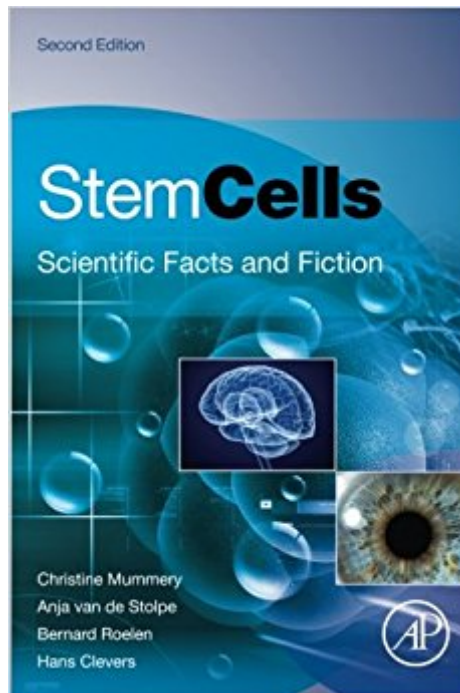




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Stem Cells, Second Edition: Scientific Facts And Fiction



Synopsis

The second edition of *Stem Cells: Scientific Facts and Fiction* provides the non-stem cell expert with an understandable review of the history, current state of affairs, and facts and fiction of the promises of stem cells. Building on success of its award-winning preceding edition, the second edition features new chapters on embryonic and iPS cells and stem cells in veterinary science and medicine. It contains major revisions on cancer stem cells to include new culture models, additional interviews with leaders in progenitor cells, engineered eye tissue, and xeno organs from stem cells, as well as new information on "organs on chips" and adult progenitor cells. In the past decades our understanding of stem cell biology has increased tremendously. Many types of stem cells have been discovered in tissues that everyone presumed were unable to regenerate in adults, the heart and the brain in particular. There is vast interest in stem cells from biologists and clinicians who see the potential for regenerative medicine and future treatments for chronic diseases like Parkinson's, diabetes, and spinal cord lesions, based on the use of stem cells; and from entrepreneurs in biotechnology who expect new commercial applications ranging from drug discovery to transplantation therapies. Explains in straightforward, non-specialist language the basic biology of stem cells and their applications in modern medicine and future therapy. Includes extensive coverage of adult and embryonic stem cells both historically and in contemporary practice. Richly illustrated to assist in understanding how research is done and the current hurdles to clinical practice.

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"... an impressive encyclopedia of modern biotechnology that presents complex material in short, easy-to-grasp chapters...a solid, informative effort...Summing Up: Highly recommended."--CHOICE

"...Explains in straightforward, non-specialist language the basic biology of stem cells and their applications in modern medicine and future therapyâ |Includes extensive coverage of adult and embryonic stem cells..."--Anticancer Research, February 2015 "... a valuable resource for both biologists and nonbiologists interested in the history and the state-of-the-art developments in the field of stem cell research and its applications. The writing style is quite engaging, and numerous illustrations help to explain the concepts. 3 Stars - Score: 85"--Doody's.com, Nov 14 2014 Stem Cells, 1st Edition - Winner of two British Medical Association 2011 awards: BMA Board of Science Award for the Public Understanding of Science and First Prize in the category of Basic and Clinical Sciences

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