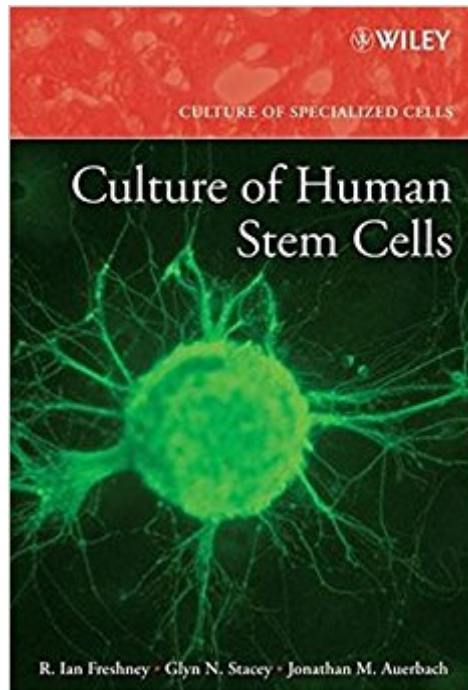




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Culture Of Human Stem Cells



Synopsis

This book collects the most effective and cutting-edge methods and protocols for deriving and culturing human embryonic and adult stem cells in one handy resource. This groundbreaking book follows the tradition of previous books in the Culture of Specialized Cells Series—each methods and protocols chapter is laid out exactly like the next, with stepwise protocols, preceded by specific requirements for that protocol, and a concise discussion of methods illustrated by data. The editors describe a limited number of representative techniques across a wide spectrum of stem cells from embryonic, newborn, and adult tissue, yielding an all-encompassing and versatile guide to the field of stem cell biology and culture. The book includes a comprehensive list of suppliers for all equipment used in the protocols presented, with websites available in an appendix. Additionally, there is a chapter on quality control, and other chapters covering legal and ethical issues, cryopreservation, and feeder layer culture. This text is a one-stop resource for all researchers, clinical scientists, teachers, and students involved in this crucial area of study.

Book Information

Hardcover: 368 pages

Publisher: Wiley-Liss; 1 edition (June 22, 2007)

Language: English

ISBN-10: 0470052465

ISBN-13: 978-0470052464

Product Dimensions: 7.2 x 0.9 x 10.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

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Best Sellers Rank: #1,816,473 in Books (See Top 100 in Books) #80 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Embryology #157 in Books > Medical Books > Basic Sciences > Embryology #707 in Books > Medical Books > Basic Sciences > Cell Biology

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"For those working, or considering working with human stem cells, Culture of Human Stem Cells will be an essential reference." (The Biochemical Society, October 2009) "Valuable to those entering the field from a wide spectrum of disciplines—An essential textbook for teachers and students who are involved with the therapeutic potential of stem cell research." (SirReadaLot.org, October

2007) "The principal value of this book lies in the diversity of topics. In addition to chapters on embryonic stem (ES) cells, interesting chapters cover the derivation of multipotential stem cells from mammary tissue, dental pulp, cornea, cord blood, and adipose tissue." (Doody's)

The first book to collect the most effective and cutting-edge methods and protocols for deriving and culturing human embryonic and adult stem cells in one handy resource This groundbreaking new book follows the tradition of previous books in the Culture of Specialized Cells series; each methods and protocols chapter is laid out exactly like the next, with stepwise protocols, preceded by specific requirements for that protocol, and a concise discussion of methods illustrated by data. The editors describe a limited number of representative techniques across a wide spectrum of stem cells from embryonic, newborn, and adult tissue, yielding an all-encompassing and versatile guide to the field of stem cell biology and culture. Culture of Human Stem Cells includes a comprehensive list of suppliers for all equipment used in the protocols presented, with Web sites available in an appendix. Additionally, there is a chapter on quality control, and other chapters covering legal and ethical issues, cryopreservation, and feeder layer culture. Culture of Human Stem Cells is a one-stop resource for all researchers, clinical scientists, teachers, and students involved in this crucial area of study.

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