



# Human Stem Cell Technology and Biology: A Research Guide and Laboratory Manual

From Wiley-Blackwell

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## Human Stem Cell Technology and Biology: A Research Guide and Laboratory Manual From Wiley-Blackwell

*Human Stem Cell Technology & Biology: A Research Guide and Laboratory Manual* integrates readily accessible text, electronic and video components with the aim of effectively communicating the critical information needed to understand and culture human embryonic stem cells.

Key Features:

- An authoritative, comprehensive, multimedia training manual for stem cell researchers
- Easy to follow step-by-step laboratory protocols and instructional videos provide a valuable resource
- A must-have for developing laboratory course curriculums, training courses, and workshops in stem cell biology
- Perspectives written by the world leaders in the field
- Introductory chapters will provide background information

The volume will be a valuable reference resource for both experienced investigators pursuing stem cell and induced pluripotent stem cell research as well as those new to this field.

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## **Human Stem Cell Technology and Biology: A Research Guide and Laboratory Manual From Wiley-Blackwell Bibliography**

- Sales Rank: #3384453 in Books
- Published on: 2011-01-04
- Original language: English
- Number of items: 1
- Dimensions: 11.30" h x 1.00" w x 8.70" l, 2.73 pounds
- Binding: Hardcover
- 419 pages

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### Editorial Review

#### Review

"The topic is intrinsically fascinating and clinically relevant ... I recommend this book for novice and experienced scientists interested in stem cell biology. It will serve as an excellent reference manual and practical laboratory workbook." (Doody's, 17 February 2012)

"We would recommend this readable and well-organised book to all laboratories dealing with human ES cells ... This book will act as an excellent guide." (Development Journal, 1 December 2011)

#### From the Back Cover

#### **The first comprehensive multimedia training manual for stem cell education and research**

The first resource of its kind, *Human Stem Cell Technology and Biology* presents laboratory techniques and protocols that have proven to be effective for the culture of pluripotent stem cells, as well as current perspectives in the field. Edited by a team of professionals at the forefront of discovery and innovation in stem cell research, education, and development of infrastructure, this authoritative multimedia training manual distinguishes itself by integrating readily accessible text, electronic, and video components to explain the biology, technology, and applications of human embryonic stem cells.

The first section of the text begins with an overview of the research that established the foundation for current initiatives in stem cell research; it goes on to describe the best methods for researching and obtaining pluripotent cell lines. The second section provides the skills and techniques necessary for the culture, maintenance, and characterization of pluripotent stem cells. This section has been developed as a multimedia stem cell course in order to present the most comprehensive instruction possible. The third section presents an in-depth perspective on the current status of the stem cell research field, and the fourth section explores applications, describing the most recent advances in research and the interface with gene therapy, tissue engineering, and drug testing.

#### **Features of this one-of-a-kind reference include:**

- Introductory chapters that provide background information to scientists entering the field
- State-of-the-art, contemporary perspectives written by international leaders in the field
- Videos demonstrating step-by-step laboratory procedures for the culture of human embryonic and induced pluripotent stem cells on the accompanying DVD
- Printable laboratory protocols in PDF form, accessible on the book's Web site
- Online updates of the rapidly developing strategies and research protocols that support stem cell research

*Human Stem Cell Technology and Biology* is an invaluable reference and laboratory manual for both experienced investigators pursuing stem cell and induced pluripotent stem cell research as well as those new to this field. Whether it is used to design a laboratory curriculum, workshop, or training course, or simply to assist in performing research in stem cell biology, this volume is a must-have resource of protocols, information, and perspectives for professional laboratories, colleges, universities, and vocational schools.

## **Users Review**

### **From reader reviews:**

#### **James Boyett:**

Do you have favorite book? For those who have, what is your favorite's book? Guide is very important thing for us to know everything in the world. Each reserve has different aim or maybe goal; it means that reserve has different type. Some people feel enjoy to spend their time to read a book. They may be reading whatever they get because their hobby is definitely reading a book. What about the person who don't like reading a book? Sometime, individual feel need book when they found difficult problem or even exercise. Well, probably you'll have this Human Stem Cell Technology and Biology: A Research Guide and Laboratory Manual.

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