

**NEW****Cell Biology**

# Human Embryonic Stem Cells

## The Practical Handbook

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all at Harvard University, Cambridge, MA, USA

With this valuable practical guide, three members of the Harvard Stem Cell Institute have compiled and edited the definite handbook for the exciting new field of human embryonic stem cell research. The editors have gathered protocols from scientists with extensive reputation and expertise, describing and comparing currently used techniques for the culture of human stem cells and discussing the strengths and weaknesses of the different approaches.

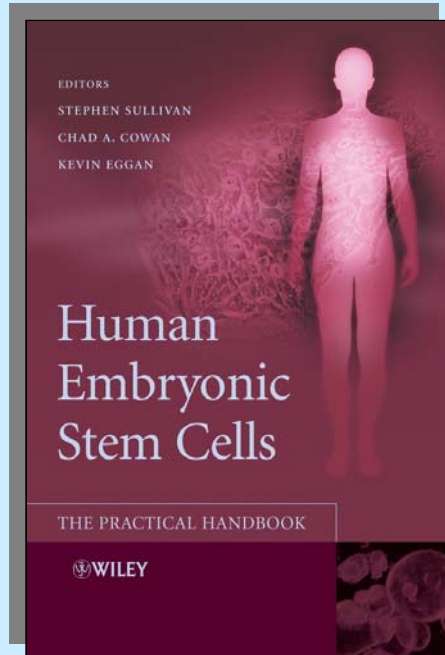
**Human Embryonic Stem Cells: The Practical Handbook** contains the first centralised collection of methods used in human embryonic stem cell biology. The book covers the derivation of human stem cell lines, the obtaining of cells from human stem cell banks, the culturing and characterisation of the cells, and the differentiation of the cells *in vitro* and *in vivo*.

The novel and useful focus of this book sets it apart from other available books:

- Compares and evaluates the protocols used in leading laboratories working on human embryonic stem cells
- Centred solely on practical protocols for human (not mouse) embryonic stem cell research
- Includes extensive troubleshooting sections
- Addresses the different proclivities and behaviours of individual human embryonic cell lines
- Contains techniques currently known only to a small number of specialised laboratories worldwide

This handbook represents an essential source of up-to-date practical information for all cell and developmental biologists working with human embryonic stem cells or wishing to enter the field. It is also essential reading for clinical researchers in areas such as diabetes, cardiovascular disease, and neurological diseases.

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