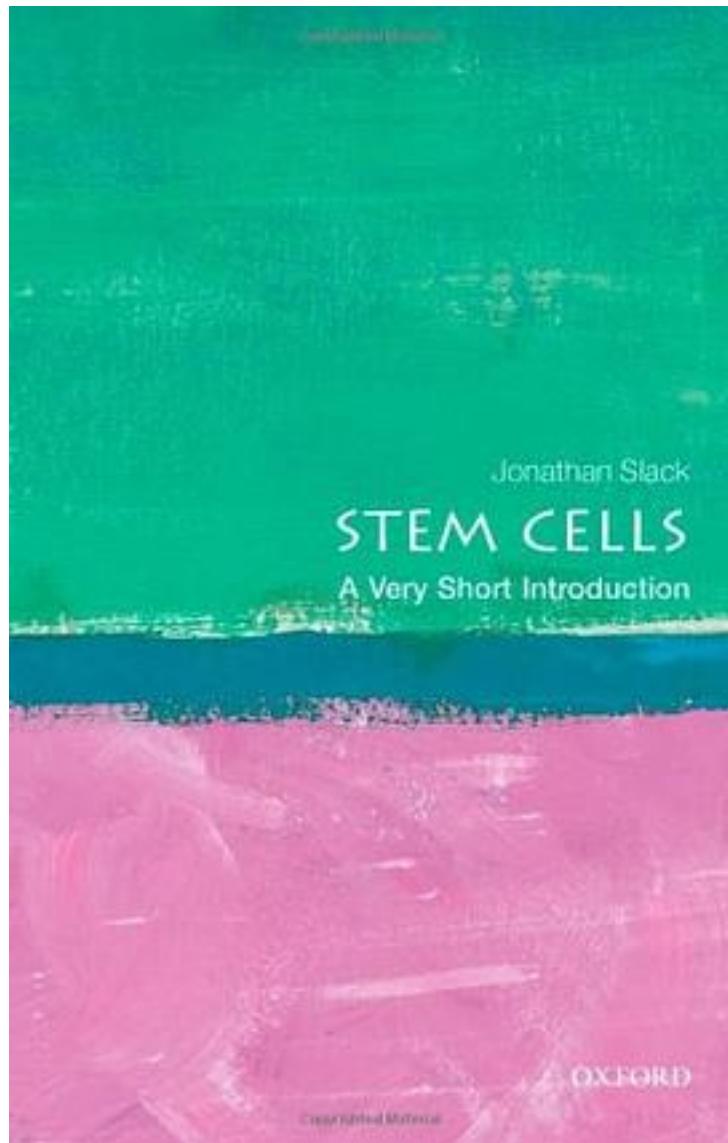


Stem Cells



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著者:Jonathan Slack

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Provides an accessible introduction to a complicated topic

Considers what stem cells are, what scientists do with them, what stem cell therapies are available today, and how they might be used in future

Focuses on the science behind stem cells, rather than issues relating to law and politics

Gives a realistic assessment about the clinical applications of stem cells

Includes a glossary of technical terms

Part of the bestselling Very Short Introductions series - over five million copies sold worldwide

The topic of stem cells has been very high profile in the media in recent years. There is much public interest in stem cells but also much confusion and misinformation, with some companies already offering 'stem cell products' and bogus 'stem cell therapies'. In this Very Short Introduction, Jonathan Slack introduces stem cells; what they are, what scientists do with them, what stem cell therapies are available today, and how they might be used in future.

Despite important advances, clinical applications of stem cells are still in their infancy. Most real stem cell therapy today is some form of bone marrow transplantation. Slack introduces stem cells by explaining the difference between embryonic stem cells, which exist only in laboratory cultures, and tissue-specific stem cells, which exist in our bodies. Embryonic stem cells can become any cell type in the body, so diseases that may in future be treated by functional cells derived from these sorts of stem cell include diabetes, Parkinson's disease, heart disease, and spinal trauma. He then goes on to discuss the properties of tissue-specific stem cells and the important technique of bone marrow transplantation. Slack concludes by analysing how medical innovation has occurred in this area in the past, and draws out some of the lessons for the development of new therapies in the future.

Readership: General readers wanting to know more about the nature of stem cells and for students in the life sciences and medicine.

作者介绍:

目录: Preface

1: Orientation to stem cells

2: Embryonic stem cells

3: Personalised pluripotent stem cells

4: Proposed therapies using pluripotent stem cells

5: Tissue-specific stem cells

6: Current therapy with tissue specific stem cells

7: Realistic and unrealistic expectations

Glossary

Further reading

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标签

biomedical

科普

VSI

英语

生物

干细胞

工程科学

医学与生理

评论

浅显易懂，干脆利落，甚至于简单粗暴，但却回味无穷。对于干细胞相关的研究与实践的宗教、伦理与科学之间的矛盾也做了简要的阐述，总之行文让人耳目一新的感觉，不会觉得死板与教条。作者是BATH大学的荣誉退休发育生物学教授。

写的非常好的一本关于干细胞的很短的书 23/10/2012 - 09/11/2012

准备面试的时候为了填ps的坑读了这本书

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书评

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