



Artificial Cells, Cell Engineering and Therapy (Woodhead Publishing Series in Biomaterials)

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Artificial cells, cell engineering and therapy are emerging technologies which will make a significant impact on the future of medicine and healthcare. However, research within the field is vast. This unique book provides a comprehensive study of the most recent advances in the field and its practical applications.

The first part of the book offers the reader an introduction to the basics of artificial cell technology with chapters on its origins, design, current status within medicine and future prospects. Part two covers apoptosis, the use of bone marrow stromal cells in myocardial regeneration together with signalling and tissue engineering. Part three discusses artificial cells for therapy, procedures for various clinical conditions and the current status of the discipline within the field. The book concludes with a final section on the role of artificial cells in medicine with particular focus on the use of artificial cells as blood substitutes and their potential use in myocardial regeneration, drug delivery and in treating kidney and bowel diseases, diabetes and cancer.

Artificial cells, cell engineering and therapy is a valuable reference for researchers, students and practitioners within the field.

- Introduces the basics of artificial cell technology
- Provides a comprehensive study of the most recent advances in artificial cells, cell engineering and cell therapy
- Discusses the design, engineering and uses of artificial cells



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