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Bioencapsulation of Living Cells for Diverse Medical Applications

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About the eBook

This eBook explains the different methods used for achieving cell bioencapsulation based on different polymers e.g. alginate, cellulose sulphate and agarose. This is a unique and timely book which brings together contributions from some of the leading researchers in the field of cell encapsulation. Interested readers are provided an overview of the exciting developments and clinical experiences of researchers with cell bioencapsulation.

Contents

- ▶ Particular Challenges in Microencapsulation of Insulin-Producing Cells for the Treatment of Diabetes Mellitus
- ▶ Human Trials with Microencapsulated Insulin-Producing Cells: Past, Present and Future
- ▶ The Diversity of Uses for Cellulose Sulphate Encapsulation
- ▶ Inducible Systems for Cell Therapy and Encapsulation Approaches
- ▶ Cell Encapsulation Technology: An Alternative Biotechnological Platform for the Treatment of Central Nervous System Diseases
- ▶ Production of Cell-Enclosing Microparticles and Microcapsules Using a Water-Immiscible Fluid Under Laminar Flow and Its Applications in Cell Therapy

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