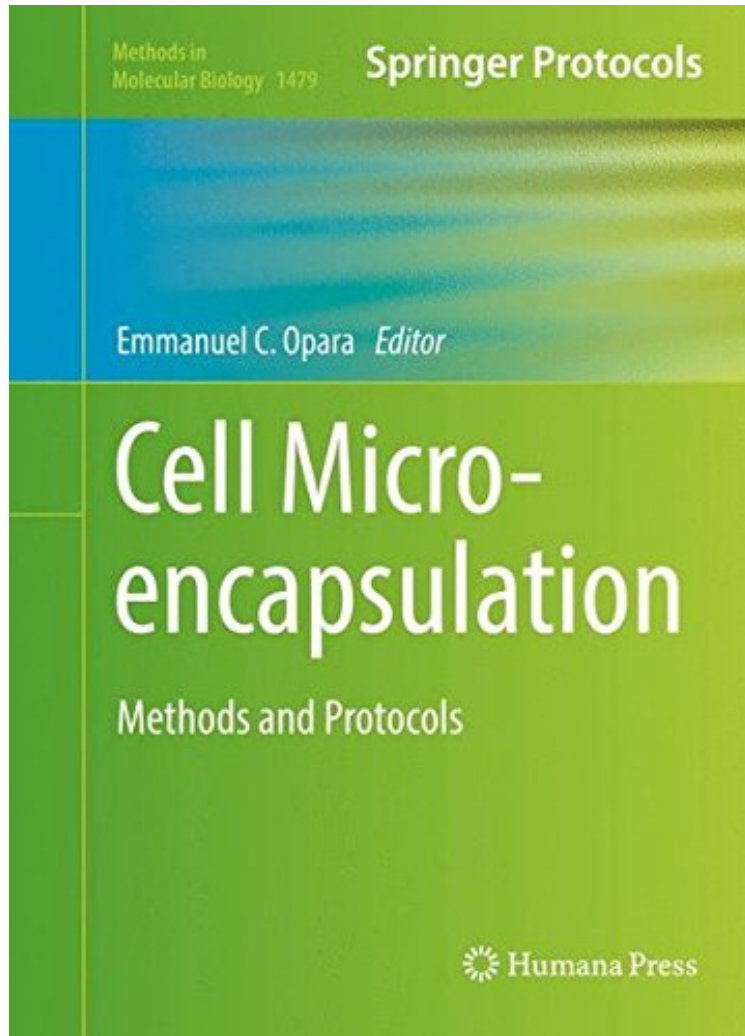


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Cell Microencapsulation: Methods and Protocols (Methods in Molecular Biology)

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This volume provides a unique forum to review cell microencapsulation in a broad sense by exploring various cell

types that have been encapsulated for different purposes, different approaches and devices used for microencapsulation, the biomaterials used in cell microencapsulation, the challenges to the technology, and the current status of its application in different clinical situations. This book is divided in five sections: Section I is an introductory part that discusses historical developments of the technology and its current challenges, as well as the various applications of cell microencapsulation; Section II discusses the main approaches and devices currently used in cell microencapsulation; Section III presents an overview of the various polymeric materials currently in use for cell microencapsulation and the enabling technologies to either monitor or enhance encapsulated cell function; Section IV gives specific examples of the methods used to encapsulate various cell types; and Section V provides an overview of the different clinical situations in which cell microencapsulation has been applied. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and practical, *Cell Microencapsulation: Methods and Protocols* is a valuable reference for researchers, engineers, clinicians, and other healthcare professionals, as well as food technologists who will find detailed descriptions of methods for the microencapsulation of specific cell types and their current of potential clinical and industrial applications. This volume also includes detailed information about the design and manufacture of different devices including large-scale production devices for use in cell microencapsulation.

From the Back Cover This volume provides a unique forum to review cell microencapsulation in a broad sense by exploring various cell types that have been encapsulated for different purposes, different approaches and devices used for microencapsulation, the biomaterials used in cell microencapsulation, the challenges to the technology, and the current status of its application in different clinical situations. This book is divided in five sections: Section I is an introductory part that discusses historical developments of the technology and its current challenges, as well as the various applications of cell microencapsulation; Section II discusses the main approaches and devices currently used in cell microencapsulation; Section III presents an overview of the various polymeric materials currently in use for cell microencapsulation and the enabling technologies to either monitor or enhance encapsulated cell function; Section IV gives specific examples of the methods used to encapsulate various cell types; and Section V provides an overview of the different clinical situations in which cell microencapsulation has been applied. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Thorough and practical, *Cell Microencapsulation: Methods and Protocols* is a valuable reference for researchers, engineers, clinicians, and other healthcare professionals, as well as food technologists who will find detailed descriptions of methods for the microencapsulation of specific cell types and their current of potential clinical and industrial applications. This volume also includes detailed information about the design and manufacture of different devices including large-scale production devices for use in cell microencapsulation.