



# Supermacroporous Cryogels: Biomedical and Biotechnological Applications

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The process of cryogelation has been vigorously studied over the past two decades, with recent research focussing on applications of these polymer systems in various biomedical and biotechnological fields. While there is significant literature available as research publications, limited reviews, and book chapters, **Supermacroporous Cryogels: Biomedical and Biotechnological Applications** is the first dedicated book on the subject. It thoroughly explores all aspects of cryogels from synthesis to applications in medical and biotechnological research and practice.

Presenting the work of researchers from around the globe, this book addresses three key components of cryogelation, starting with an overview of the unique inherent properties of cryogels and their synthesis and optimization from various natural and synthetic polymers. It also focusses on the surface modification of cryogels as well as factors that affect their properties. The second component is a discussion of the biomedical aspects of cryogels, categorically describing their biocompatible nature and their recent usage in medical imaging by creating phantoms of various tissues and using tissue engineering to regenerate various tissues. The third reviews a wide range of applications of cryogels in biotechnology, including biocatalysis, cell separation, wastewater treatment, high throughput processes, and bioreactors.

A comprehensive look at the process of cryogelation and an up-to-date account of significant developments in cryogel research, **Supermacroporous Cryogels** provides a single source of information beneficial to unacquainted readers as well as experts wanting to know about current research and practice regarding cryogels in medicine, technology, chemistry, and materials science and engineering.

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