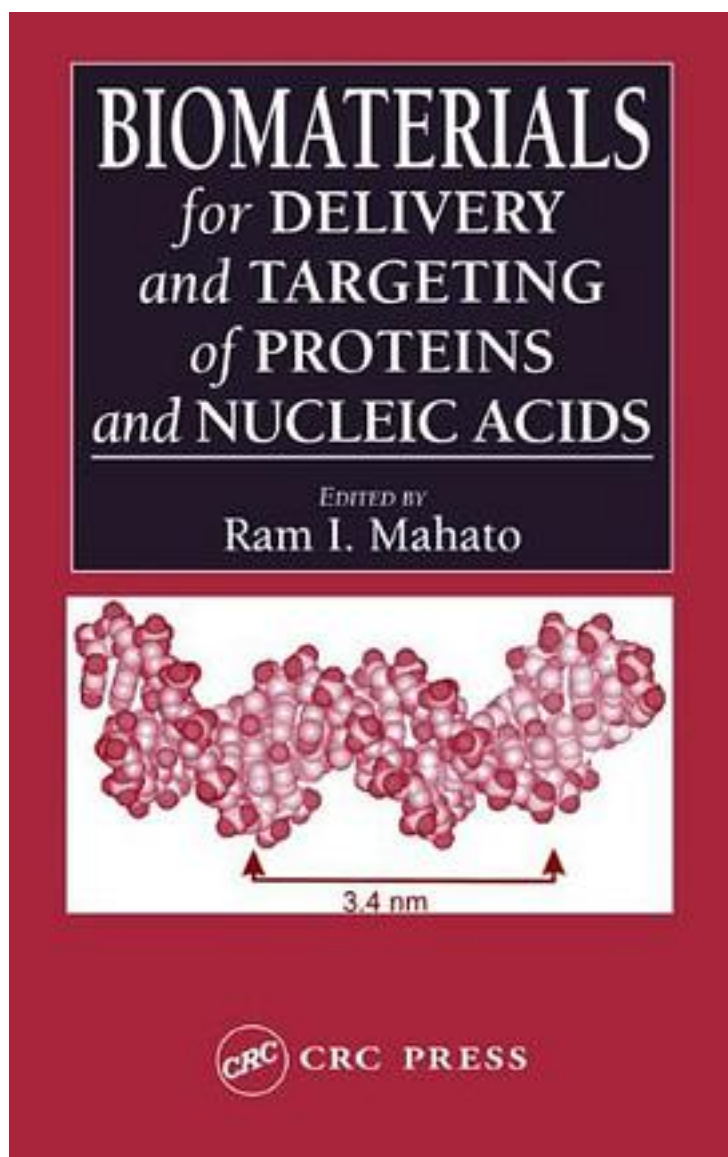


Biomaterials for Delivery and Targeting of Proteins and Nucleic Acids



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Newcomers to the field of biopharmaceuticals require an understanding of the basic principles and underlying methodology involved in developing protein- and nucleic acid-based therapies for genetic and acquired diseases. "Biomaterials for Delivery and Targeting of Proteins and Nucleic Acids" introduces the principles of polymer science and chemistry, as well as the basic biology required for understanding how biomaterials can be used as drug-delivery vehicles. No book to date combines a discussion of high-tech biomaterials-based delivery of protein and nucleic acid drugs with the pharmaceutical or biocompatibility aspects. Featuring contributions from leading experts from around the world, this text discusses physiochemical parameters used for design, development, and evaluation of biotechnological dosage forms for delivery of proteins, peptides, oligonucleotides, and genes. The authors also present biological barriers to extravasation and cellular uptake of proteins and nucleic acids. Combining an introduction to biomaterial delivery with the latest developments in the field, this is a valuable reference for both the novice student and the practicing scientist on delivery of biomaterials, on biomedical polymers, and on polymer therapeutics. Understanding these core fundamentals is critical to moving on to more advanced study.

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目录:

[Biomaterials for Delivery and Targeting of Proteins and Nucleic Acids 下载链接1](#)

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