



Polymers in Drug Delivery

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Together, the nano explosion and the genomic revolution are ushering in a new frontier in drug delivery. In recent years we've seen how polymers can play a crucial role in controlling the rate of drug release, enhancing solubility and uptake, and limiting degradation and toxicity. In the very near future, they may well be used to deliver gene therapy.

While **Polymers in Drug Delivery** offers much new insight for the veteran specialist, this work has been compiled with the non-specialist in mind. It includes contributions from many of the world's leading drug delivery specialists, yet avoids jargon and presents background information that initiates the next generation of scientists into the amazing work going on at the frontiers of this rapidly evolving science.

Targeting specific issues at the forefront of drug delivery today, this engaging volume—

- Outlines the issues that must be considered when selecting a polymer for fabricating a drug delivery agent or other medical devices
- Explains the more commonly used methods by which polymers may be characterized prior to use
- Profiles polymer matrices that have been used in the formulation of solid oral dosage forms, drug delivery scaffolds, and hydrogels
- Examines the issues surrounding the encapsulation of biologics within microspheres
- Explores the use of nanoparticulates, especially solid nanoparticles and nanocapsules prepared from largely-water-insoluble cyanoacrylate polymers
- Discusses polymeric micelles and investigates the potential of soluble polymer prodrugs and polymer nanomedicines
- Details the contribution made by polymers and dendrimers to the gene delivery effort, which may one day lead to effective treatments for largely incurable diseases

Noting a dramatic paradigm shift that is bridging the gap between materials science and life science, the editor-s have compiled this volume to paint an interdisciplinary portrait of drug delivery that will challenge young scientists to turn their attention and effort towards this critical branch of biomedicine. Containing state-of-the-art information for drug delivery scientists, it is also a great choice for medical and pharmaceutical students and others seeking an in-depth introduction to the field.

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