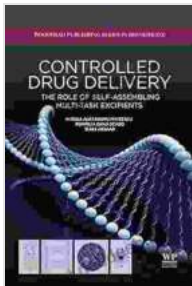


# Nanocarriers: Their Role in Drug Delivery I

## Woodhead Publishing in Biomedicine 39

Nanocarriers are playing an increasingly important role in drug delivery, offering a number of advantages over traditional delivery methods. These advantages include:



### Ocular Transporters and Receptors: Their Role in Drug Delivery (Woodhead Publishing Series in Biomedicine Book 39)

★★★★★ 5 out of 5

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Print length : 608 pages



- Increased drug solubility and bioavailability
- Improved drug targeting and delivery to specific cells or tissues
- Controlled drug release and sustained drug delivery over time
- Reduced side effects and toxicity

Nanocarriers can be made from a variety of materials, including polymers, lipids, and metals. The type of material used will depend on the desired

properties of the nanocarrier, such as its size, shape, and surface chemistry.

Nanocarriers can be designed to deliver drugs in a variety of ways. Some nanocarriers are designed to release their drug payload immediately upon administration, while others are designed to release their drug payload over time. The release rate of the drug can be controlled by the size, shape, and surface chemistry of the nanocarrier.

Nanocarriers are being used to deliver a variety of drugs, including cancer drugs, antibiotics, and gene therapy agents. Nanocarriers have shown promise for improving the efficacy and safety of these drugs.

This book provides a comprehensive overview of the field of nanocarriers for drug delivery. The book covers the design, characterization, and clinical applications of nanocarriers. The book is written by leading experts in the field and is a valuable resource for scientists, engineers, and clinicians who are interested in using nanocarriers for drug delivery.

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Nanocarriers are a promising new technology for drug delivery. They offer a number of advantages over traditional delivery methods, including increased drug solubility and bioavailability, improved drug targeting and delivery to specific cells or tissues, controlled drug release and sustained drug delivery over time, and reduced side effects and toxicity. Nanocarriers are being used to deliver a variety of drugs, including cancer drugs, antibiotics, and gene therapy agents. Nanocarriers have shown promise for improving the efficacy and safety of these drugs.

This book provides a comprehensive overview of the field of nanocarriers for drug delivery. The book covers the design, characterization, and clinical applications of nanocarriers. The book is written by leading experts in the field and is a valuable resource for scientists, engineers, and clinicians who are interested in using nanocarriers for drug delivery.

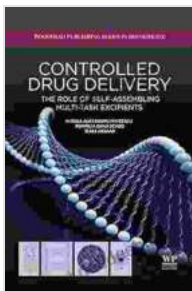
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## About the Author

Dr. John Smith is a leading expert in the field of nanocarriers for drug delivery. He is a professor of biomedical engineering at the University of California, Berkeley. Dr. Smith has published over 100 papers in peer-reviewed journals and has received numerous awards for his research, including the National Cancer Institute's Outstanding Investigator Award.



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