Extracellular Vesicle-Based Biovectors for Diagnostic and Biomedical Applications

Edited by: Arun Kumar, Charan Singh and Ajeet Kumar Kaushik

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About the book

Key Features

- Discusses fundamentals and explains the biosynthesis, isolation, purification, and functionalization techniques of extracellular vesicles
- Delves into recent advances of extracellular vesicles-based biovectors for biomedical applications in therapeutics and diagnostics
- Explores the future of extracellular vesicle research, including emerging technologies for extracellular vesicle manipulation, novel bioengineering approaches, and the potential of extracellular vesicles in personalized medicine

Description

diseases.

Content also address biocompatibility, safety, translation challenges, biocompatibility, and translation challenges. Final sections explore the diagnostic potential of extracellular vesicles in biomedical research, highlighting their role as diagnostic biomarkers in various diseases. Emerging technologies and future directions in extracellular vesicle research round out the content, making it a valuable reference for researchers and clinicians seeking an in-depth understanding of extracellular vesicles and their potential biomedical applications.

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