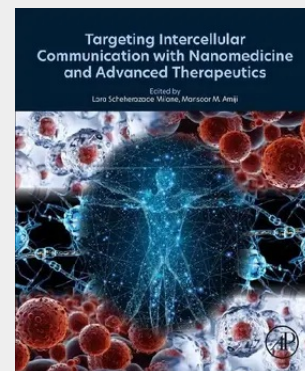


Targeting Intercellular Communication with Nanomedicine and Advanced Therapeutics

Targeting Intercellular Communication with Nanomedicine and Advanced Therapeutics delves into the complex world of intercellular communication biology and its implications on therapeutics. This book covers all areas of intercellular communication and therapeutics in development for different forms of communication, including their role in diseases such as cancer, neurological disorders, metabolic diseases, and inflammatory/immune diseases. Sections provide an introduction, biological targets, challenges, and approaches to overcoming biological barriers and the significance of contact points and mechanisms of internalization. Specifics of tunneling nanotubes, extracellular vesicles, and the immune and non-immune interface in various diseases are covered. Furthermore, the book explores the crosstalk of different forms of intercellular communication and the implications of mitochondrial exchange in the four primary pathological areas. This is an essential resource for researchers, students, and professionals in the field of drug development and delivery. By connecting the dots between extracellular vesicles, tunneling nanotubes, and cell-cell junctions, this book serves as a foundation for further advancements in the science of intercellular communication and its applications to new drug discovery and delivery.

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