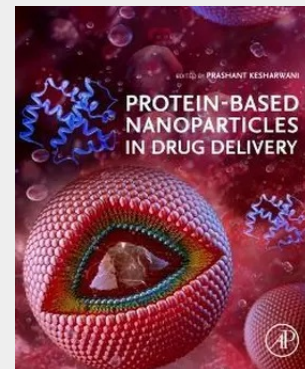


Protein-Based Nanoparticles in Drug Delivery

Protein-based Nanoparticles in Drug Delivery is a comprehensive book aimed at pharmaceutical scientists and researchers both in academia and corporate environments focused on nanotechnology drug delivery and pharmaceutical-related disciplines. The book covers the design and characterization of various protein nanoparticles, sheds light on the power of an endogenous substance as a drug delivery system, and highlights the possible future trends in the use of protein-based drug delivery. It covers in-depth novel applications of protein-based drug delivery from fundamental to most current use cases. The book comprises three parts. Part one is devoted to the foundations of protein-based drug delivery, including nanocarriers development, drug encapsulation, targetability, and in vivo properties. Part two explores the applications of protein-based nanoparticles in drug delivery, covering topics such as protein nanoparticles in cancer therapy, genetic material delivery, and nanocarriers based on milk protein, silk, and gliadin. Part three addresses recent advances and regulatory aspects of protein-based nanoparticles in drug delivery, including clinical translation, challenges, biological toxicity, and environmental hazards associated with protein-based nanoparticles. Protein-based Nanoparticles in Drug Delivery provides a complete journey of protein-based drug delivery, offers an in-depth understanding of the design and characterization of various protein nanoparticles, and highlights possible future trends in this field. Pharmaceutical scientists will benefit from the novel applications of protein-based nanoparticles drug delivery approaches in the biological field. Nanotechnologists, biologists, chemists, physicists, engineers, and clinicians will also benefit from the foundational content provided as a basis to support communication and tackle the multidisciplinary challenges associated with research in this exciting field.

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