

Advances in **PROTEIN CHEMISTRY and STRUCTURAL BIOLOGY**

**Protein and Peptide Nanoparticles for
Drug Delivery**

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Nanoparticles have provided the possibility of targeted delivery of drugs to specific cells. Targeted drug delivery focuses on maximizing bioavailability at specific places in the body and over a period of time. Targeted delivery of therapeutics is intended to reduce their side effects along with decreased consumption and treatment expenses. Nanoparticles can be manufactured from different materials using a number of different methods for releasing the therapeutic components at the site of delivery. Considering the high demand of further research in manufacturing of nanoparticles for targeted delivery of drugs into different cell and tissue types, this thematic volume of the *Advances in Protein Chemistry and Structural Biology* has focused on nanoparticles containing proteins and/or peptides either as carriers or as therapeutically active component. The manufacturing strategies for these nanoparticle conjugates, their penetration into cells/tissues and methods employed for the release of carried drug have been thoroughly described. The aim of this volume is to promote further studies in nanomedicine and pharmacology in order to discover reliable tools for highly specific and efficient delivery of therapeutics to morbid region only. The comprehensive reviews published in this volume would be of significant interest to professionals and students in a number of subjects such as biosciences, medicine, pharmacology, chemistry, etc..

Cover image: Accumulation of the albumin-drug complex in the tumour environment facilitated by albumin-binding protein SPARC (Secreted Protein, Acidic and Rich in Cysteine) after entering into the tumour interstitium. For further details see Kouchakzadeh et al.



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