



Surface-Functionalized Nanoparticles as Drug Carriers

Guest Editors:

Prof. Dr. Jagdish Singh

Department of Pharmaceutical
Sciences, College of Health
Professions, North Dakota State
University, Fargo, ND 58108-6050,
USA

Dr. Buddhadev Layek

Department of Experimental and
Clinical Pharmacology, College of
Pharmacy, University of
Minnesota, 308 Harvard St. SE,
Room 9-153 WDH, Minneapolis,
MN 55455, USA

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Message from the Guest Editors

Over the decades, nanocarriers have been extensively investigated for improved pharmacokinetics and biodistribution, increased stability, reduced toxicities, controlled release, and site-specific delivery of therapeutics. However, the efficacy of nanocarrier-based drug delivery systems is largely dependent on their controlled interactions with biomolecules. Therefore, nanoparticles have often been surface-functionalized with a variety of ligands, not only to impart site specificity and increase cell penetration, but also to provide stealth properties and improve payload capacity. For example, the surface functionalization of nanoparticles has made remarkable advances in tumor-targeted delivery and drug delivery across the blood-brain barrier. This Special Issue will focus on recent progress in nanotechnology in the areas of basic and applied research, as well as clinical medicine. Topics of interest include, but are not limited to, cutting-edge research on the preparation of surface-functionalized nanoparticles and their in vitro and in vivo evaluation. Further, the interaction between nanoparticles and bio-interfaces will also be included.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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*International Journal of Molecular
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MDPI, Grosspeteranlage 5
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