

Special Issue

Novel Strategies for Cancer Targeted Delivery

Message from the Guest Editors

Among the controlled drug delivery technologies, targeted drug delivery has attracted the attention of researchers, as it comprises the systemic delivery of a drug carrier system to specific cell types, tissues, or organs. Targeted drug delivery systems would mainly be beneficial in diseases such as cancers, which are a leading cause of death worldwide. Advancements in omic sciences, analytical procedures, and high-throughput screening in the last two decades have led to the realization that cancer is more complex than was originally conceived. Numerous challenges impede effective cancer treatment and development of effective drugs such as ineffective therapeutic drug concentrations reaching the tumor site, life-threatening side effects caused by nonspecific tissue distribution of anti-neoplastic agents, and acquired resistance of cancer cells upon chemotherapy that triggers cross-resistance to a wide range of different drugs. The complexity of cancers requires the development of very delicate approaches in the course of the drug discovery pipeline.

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