



Nano-Strategies: The Future Medicine for Fighting Cancer Progression and Drug Resistance

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Message from the Guest Editor

Among the several strategies considered to counteract drug resistance, the encapsulation of the drugs into nanovectors appears very promising. Importantly, their capability demonstrated in protecting cargo makes nanodevices useful for the delivery of therapeutic nucleic acids, a field of research that has increased significantly in recent years. Despite numerous studies that have proved the efficacy of nanosystems in (i) carrying a large therapeutics “payload”; (ii) accommodating multiple drug molecules that simultaneously enable combinatorial cancer therapy and bypass well-known drug resistance mechanisms; and (iii) targeting specific cells/tissues through the multivalent targeting ligands, which yield high affinity and specificity, only a limited number of nanodevices have attained clinical success (e.g., Doxil and Abraxane). These features imply that additional efforts are required before nanomedicine supplants conventional drug delivery administration. In this Special Issue, we welcome contributions, reviews, and original articles focused on all the aspects embraced by nanostrategies and adopted for combating cancer progression and drug resistance.





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Message from the Editor-in-Chief

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