Special Issue

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

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.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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