

Special Issue

Nanotherapeutics in Cancer

Message from the Guest Editor

Tumor initiation, growth, and progression rely on the bidirectional interaction of the tumor cells with cellular and noncellular elements in the tumor microenvironment (TME). During the past two decades, extensive studies of the TME biology and its important role in disease progression and prognosis have provided a stage for the design of novel cancer nanomedicines. Clinically used nanotherapeutics, such as liposomal doxorubicin (e.g., Doxil®) and nanoparticle-albumin bound paclitaxel (Abraxane®), utilize changes in the TME, such as the neovasculature-based enhanced permeation and retention (EPR) effect and increased albumin transport, to promote the delivery of chemotherapeutics to the tumor cells. More specific delivery of therapeutics to tumors using concepts of nanomedicine generally yields much better safety profiles and more efficient anti-cancer therapies. In the current Special Issue, entitled “Nanotherapeutics in Cancer”, we aim to cover a collection of current research papers and up-to-date review articles focusing on various aspects of the design of nanomedicines specifically targeted to enhance the safety and efficacy of tumor therapies.

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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