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Nanosystems and Antibody/Peptide Modified Drugs for Cancer Treatment

Guest Editors:

Prof. Dr. Juan Manuel López Romero
Department of Organic Chemistry, Faculty of Sciences, University of Málaga, 29071 Málaga, Spain

Prof. Dr. Francisco Sarabia
Department of Organic Chemistry, Faculty of Science, University of Málaga, 29071 Málaga, Spain

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Message from the Guest Editors

Currently, the first line of treatment in cancers is the surgical removal of solid tumors. After primary surgical resection, the main action includes the intravenous administration of systemic chemotherapy treatments using cytotoxic molecules. In addition, a specific applied chemotherapeutic treatment may be ineffective due to multidrug resistance (MDR), caused by the resistance of some remaining cancer cells due to the lack of a specific targeting. Finally, their systemic and (therefore not localized) administration represents a great disadvantage since these molecules cannot be administered in low doses and/or gradually. Consequently, it is necessary to discover and develop new chemical formulations capable of improving their antitumor efficiencies in terms of activity and selectivity, compared with conventional chemotherapeutic drugs, currently approved for cancer therapy.

The Topic presented here aims to solve specific problems associated with cancer recurrence through the development of new antibody/peptide derivatives and analogues with higher antitumor activity, low unwanted secondary effects and better viability compared with the current chemotherapeutic drugs.

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Editor-in-Chief

Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

Message from the Editor-in-Chief

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Pharmaceutics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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