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Polymeric Nanoparticles for Cancer Treatment

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Message from the Guest Editors

Dear Colleagues,

Currently, the use of nanotechnology as a promising tool in cancer treatment is becoming a reality. Polymers have emerged as one of the most important and versatile raw materials to obtain novel nanovehicles to treat different types of cancer. The easy modification of different functional groups and polymeric chains can provide many types of polymers with a wide range of solubilities, including stimulus-responsive polymers that can allow selective drug release in different microenvironments and also the incorporation of various biomolecules to obtain smart nanovehicles, improving the selectivity and efficiency of nanosystems.

The search for new polymers that can be approved by different regulatory agencies for use as a raw material to obtain new nanoparticles for cancer treatment is currently an important topic in nanomedicine. In addition, establishing new methods for polymeric nanoparticle formulation, the encapsulation of new drugs and the modification of nanoparticles with different biomolecules to achieve more selective cancer treatment is a necessity.

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Dr. Francisco J. Cimas
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