

Special Issue

Nanoparticle-Based Radiosensitization 2.0

Message from the Guest Editor

Radiotherapies are highly effective and economical. For instance, in cancer treatment, radiotherapy contributes to about 40% of cures and yet accounts for less than 10% of cancer treatment costs. The delivery of electromagnetic radiation and energetic particles has advanced tremendously due to technical, engineering, and physical accomplishments. However, many treatments now have limited scope for further improvements without advancing our basic understanding and exploitation or manipulation of the physical, chemical, and biological attributes associated with the morbidity in question.

In this regard, nanoparticles offer avenues for enhancing current therapies and the exploration of experimental therapies by preferentially sensitizing target tissues. These technologies span diverse concepts aimed at enhancing physical, chemical, and biological mechanisms, developing nanoparticles for targeted delivery, and the controlled delivery and release of radiosensitizing agents (small molecules, biologicals, and nanoparticles).

This Special Issue will provide exciting insight into state-of-the-art radiosensitization with nanoparticle technologies

Guest Editor

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