

Special Issue

Metal-Based Nanoparticles: New Insights into Cancer Diagnosis and Therapy

Message from the Guest Editors

In recent decades, the development of nanomedicine has offered the possibility to take advantage of nanoscale materials to improve cancer management. Studies have demonstrated the ability of metallic nanoparticles to improve the performance of imaging techniques and to enhance the effects of various treatment modalities (radiotherapy, chemotherapy, immunotherapy, etc.). In synergy, these two properties make these nano-objects potential theranostic agents able to image and provide therapeutic benefit. Therefore, cancer nanomedicine has become one of the leading areas of promise, with first-generation nano-objects reaching the level of clinical trials. Recently, multidisciplinary insights into the interaction of metal-based nanoparticles with cellular systems have advanced, paving the way for new combination therapies and the development of the next generation of nano-objects.

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