

Special Issue

Applications of Nanotechnology in Cancer

Message from the Guest Editors

Nanotechnology is a wide field, with the potential to become a key player in future cancer treatments. Cancer marker targeted antibodies attached to magnetic nanoparticles can be used for the early detection of cancer. Toxic drugs can be attached to specialized nanomaterials for localized delivery in tumors, reducing the secondary effects associated with traditional chemotherapy methods. Nanostructures have been engineered to deliver high heat or radiation localized in tumor areas. New promising research has emerged on the use of advanced genetic treatments, and new directions based on pH control for cancer treatment are underway in several laboratories. It is very likely that these will be coupled with nanotechnology engineered nanostructures for enhanced specificity and localized action.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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