

Special Issue

Targeted Radionuclide Therapy: Theranostic Applications and Advances in Personalized Therapy

Message from the Guest Editors

Targeted radionuclide therapy (TRT) is a radiation therapy modality consisting of systemic delivery of radioactive atoms to induce DNA damage in tumor cells. TRT agents target specific receptors or molecular cues overexpressed in tumor cells or the microenvironment. Recent developments in understanding of radionuclide chemistry and physical characteristics of radionuclides, as well as biological insights on appropriate and specific molecular targets, have promoted increased use of TRT, especially within a theranostic approach. Herein, we aim at highlighting the most recent applications of targeted radionuclide therapy through the use of different ligands and tumor targeting agents, in combination with diagnostic approaches or other cancer therapies for personalized cancer treatment.

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