Special Issue

Novel Technologies of Radiation Therapy

Message from the Guest Editor

The enormous technological progress made in ionizing radiation therapy over the last two decades has given rise to new methods of cancer treatment. In general, radiation therapy can be divided into two groups. The first is external beam therapy (teleradiotherapy and hadron therapy), and the second is based on radiation emitted from inside the patient's body (brachytherapy and isotope therapy). New techniques to generate external beams are three-dimensional conformal radiotherapy (3D-CRT), intensity-modulated radiotherapy (IMRT), volumetric modulated arc therapy (VMAT) and stereotactic body radiation therapy (SBRT), stereotactic radiosurgery (SRS) and intensity modulated proton therapy (IMPT), boron neutron capture therapy (BNCT), etc., using a variety of radiation delivery devices such as a linear electron accelerators (Linacs), robotic systems like Cyber Knife, Gamma Knife based on Co-60 radiation sources, tomotherapy machines and proton beam cyclotrons. The above-mentioned problems and a number of others related to the progress in radiation therapy are the content of this issue.

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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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