



Emerging Technologies for Medical Imaging - Diagnostics, Monitoring and Therapy of Cancers

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Deadline for manuscript submissions:

closed (15 November 2020)

Message from the Guest Editors

In the area of emerging approaches in personalized medicine, the diagnostic accuracy of tests, either imaging, lab values or genetic measures is one of the main cornerstones for its success. A theranostic approach using targeted radionuclide therapy has unique promise for personalized treatment of cancer, as both the targeting vehicle and the radionuclide can be tailored to the individual patient. In addition, the related information of medical imaging is used in initial decision making as well as in the monitoring of running therapies. Coming with the exponential development of information technologies and the extraordinary capacity of current software developments, with an important aspect being the ability to process huge amounts of data in a very short time frame, imaging technologies as well as post processing approaches of imaging data have made an important progression. In this Special Issue we would like to focus on new hardware and software developments that provide promising new aspects for improving patient care. Last but not least, the very important aspect of the use of artificial intelligence in image data acquisition, evaluation and postprocessing will be highlighted.





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