

Special Issue

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

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.

Guest Editors

Prof. Dr. Mohsen Beheshti

Professor & Head, Teaching & Research Division of Translational Nuclear Medicine, Deputy Director, Department of Nuclear Medicine, University Hospital, RWTH University Aachen, Pauwelsstrasse 30, 52074 Aachen, Germany

Prof. Dr. Felix M. Mottaghy

1. Director, Department of Nuclear Medicine, University Hospital, RWTH University Aachen, Pauwelsstrasse 30, 52074 Aachen, Germany
2. Department of Radiology and Nuclear Medicine, Maastricht University Medical Center (MUMC+), P. Debeylaan 25, 6229 HX Maastricht, P.O. Box 5800, 6202 AZ Maastricht, The Netherlands

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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