Special Issue

Nanoparticles and Medical Imaging for Image Guided Medicine

Message from the Guest Editor

Image-guided medicine is growing to improve treatment regimens as advancing medical imaging including MRI, CT, radiography, ultrasound, PET and SPECT. A combination of nanoplatforms with high performance in imaging and therapeutics may be critical to improve medical outcomes. One emerging field is the image guided therapy using nanoparticles. Those are including basic bench, preclinical in vitro/in vivo and clinical researches combining synthesis of multimodal nanoparticle and tracking/navigation tools to improve accuracy and outcomes of the therapeutics. Most of the emerging interventional technique such as image guided ablation, percutaneous injection gene/bacteria therapy, transcatheter treatments for tumor specific local therapy, thrombolytic therapy, can be combined with nanotechnology in clinic. Careful design/selection/synthesis of multifunctional imaging/therapeutic nanomaterials with therapeutic agents will be critical for the translational optimization new image guided medicine techniques. The Special Issue is to collect cutting-edge image-guided nanomedicine technology of leading scientists for providing a new opportunity and perspectives of the nanotechnology.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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