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Advanced Nanomaterials for Bio-Imaging

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Message from the Guest Editor

Dear Colleagues,

Recent advanced nanomaterials have served as an excellent platform for optical imaging biosensors to improve cancer detection, diagnosis, and image guided surgery while reducing the exposure of patients to harmful radiation caused by other traditional molecular imaging methods. Optical imaging is amenable to high throughput analyses because images can be acquired in a few seconds, and multiple subjects can be imaged simultaneously; thus, the method can be used for lengthy and repeated procedures over time, to monitor the progression of disease or the results of treatment. Optical imaging is also highly sensitive and cost effective, and it is straightforward to use. Importantly, a single nanomaterial can incorporate various imaging agents and target ligands followed by bioconjugation on the surface or encapsulation of molecules. Thus, rationally designed nanomaterials possess multimodality in imaging with minimal side effects to adjacent tissues and organs. We look forward to receiving contributions in these research areas that push the boundaries of this exciting new field.

Dr. Jung-Jae Lee

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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