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# Synthesis and Applications of Nanomaterial-Based Probes for Bio-Imaging

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# **Message from the Guest Editors**

Nanomaterial-based probes have greatly contributed to bio-imaging in basic life science and clinical research. Bioimaging is crucial to see what is happening inside the cell and body at the molecular level, leading to an indispensable modality in life sciences and medical sciences. Bio-imaging uses a variety of imaging techniques, such as magnetic resonance (MR), positron emission tomography (PET), ultrasonic imaging, and optical (fluorescence/bioluminescence/Raman), which employ imaging probes to target and detect molecular and cellular dynamics in a living system. In the clinical field, nanomaterial-based bio-imaging plays a crucial role in cancer diagnosis and treatment. To date, bio-imaging has been improved not only by the development of imaging probes, but also by the development of imaging techniques. This Special Issue focusses on recent advances and future prospects in the area of bio-imaging probes and their synthetic techniques. This Issue will contain research communications, papers, and reviews in chemical, biological, and biomedical studies, regarding the synthesis and application of nanomaterial-based probes for bioimaging.









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## **Message from the Editor-in-Chief**

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