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In Vivo Imaging and Sensing of Biomarkers

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Message from the Guest Editors

In vivo bioimaging has become an essential tool in modern biomedical research and medicine. Mounting evidence has shown the unprecedented role of in vivo bioimaging in that biosensors are administered to living subjects for specifically detecting important disease biomarkers and displaying their spatial distribution non-invasively. In recent decades, a radical development has been made for in vivo sensing of various disease biomarkers. In vivo imaging and sensing will become an indispensable tool in precision medicine and can provide more accurate diagnosis and real-time treatment monitoring directly through sensing the underlying molecular events.

This Special Issue aims to cover recent advances in the development of in vivo imaging using clinically translatable modalities such as MRI, nuclear imaging, optical imaging, etc. Given the broad spectrum of technologies existing in this field, we will focus specifically on how imaging science and chemistry can be designed based on cellular/molecular biology to invent imaging methods and probes for sensing previously undetectable biomarkers and how these new innovations are translated to clinical studies to advance the medical field.



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Special Issue



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Message from the Editor-in-Chief

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