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Bioluminescence Imaging and Sensing: Applications in Basic and Applied Sciences

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Message from the Guest Editors

Bioluminescence (BL) is a cold body radiation of light generated by a luciferase-catalyzed oxidation of a luciferin in living organisms. To date, BL has been rapidly emerging in the applications to bioassays and molecular imaging. It has been greatly harnessed by its distinctive advantages. such as the long dynamic range, high signal-to-noise ratios, and no need for external light source for excitation. Reviewing the recent BL studies, a great diversity has been witnessed in the study landscape from the basic to applied sciences: e.g., organic synthesis of luciferins, genetic mutations of luciferases, investigations on the lightemitting mechanisms. development bioluminescent probes, and even imaging of molecular events in animal models. This Special Issue of Sensors is intended to provide a communication platform for the latest developments in basic and applied science applications in BL studies, and showcases the bioanalytical utilities in cells and animal models. This Special Issue opens the opportunity for communication and welcomes the broad range of research articles.













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Message from the Editor-in-Chief

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