



## Intracellular Optical Biosensing for Theranostics

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### Message from the Guest Editors

This Special Issue aims to collate researchers who are active in the development of intracellular optical biosensing systems applied to theranostics. These systems have emerged as a promising tool for theranostics, which involves the combination of diagnostic and therapeutic approaches for the management of many diseases, such as cancer and neurodegenerative diseases.

They utilize fluorescent or luminescent probes that emit light in the presence of specific target molecules (including mRNAs and proteins) or in response to changes in the cellular environment. They can be used to monitor disease progression in real time, simultaneously realize diagnosis and therapy (theranostic agents), or assess the efficacy of therapies.

As there are still challenges to be addressed, such as improving sensitivity and specificity and optimizing delivery, optical biosensing could become a powerful tool for personalized medicine and precision therapeutics.

With all this in mind, I cordially invite you to share your work, expertise, and insights with the optics and biosensing research community in the form of research articles and reviews for this Special Issue.





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## Message from the Editor-in-Chief

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