



Single-Molecule Sensing for Biomedical Applications

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Message from the Guest Editor

Dear Colleagues,

The development of single-molecule sensing is one of the challenges in the field of applied science. Until now, single-molecule sensing has become available for various biomedical application and it is an ideal medical technique for the realization of precision-medicine systems.

This Special Issue will focus on single-molecule sensing for biomedical applications, including electrical, optical, and/or magnetic measurements and nano/micro fabrication technologies for devices using nanostructures such as nanopores, nanogaps, nanochannels, MEMS, NEMS, etc. It will also welcome pretreatment studies for biomedical sensing, single-molecule detection, integrating purification, extraction, molecular control, as well as for non-invasive, biocompatible, and wearable functional devices. In addition, studies on artificial intelligence, such as multivariate analysis, machine learning, and deep learning, and molecular simulation methods are also of interest.

Prof. Takahito Ohshiro
Guest Editor





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Message from the Editor-in-Chief

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