



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
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Message from the Editor-in-Chief

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