

Special Issue

Imaging Molecules in Biomedical Research

Message from the Guest Editor

This Special Issue focuses on the application in vitro, ex vivo and in vivo of techniques for a molecular analysis in situ. Histochemistry and immunohistochemistry at light and electron microscopy, in situ hybridization, magnetic resonance imaging, optical imaging, photoacoustic imaging, ultrasound imaging, Raman microscopy enable the detection, characterization and quantification of biological markers and molecular pathways directly in the cytological/histological/anatomical context where they occur, thus bridging the gap between molecular and structural approaches. This is important in biomedical research since the presence, quantity or ectopic location of specific molecules may be crucial for detecting changes in tissue or cell function under physiological or pathological conditions. We encourage the submission of original research articles or reviews on the application of these techniques to investigate pathological and physiological processes or to evaluate the efficacy of new therapeutic approaches. Methodological studies establishing novel techniques for imaging molecules in situ are also welcome.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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