



## Application of Atomic Force Microscopy in Molecular and Cell Biology

Guest Editor:

**Dr. Kee Siang Lim**

Prof. Richard Wong's Lab, Nano  
Life Science Institute, Kanazawa  
University, Kanazawa 920-1192,  
Japan

Deadline for manuscript  
submissions:

**closed (20 April 2025)**

### Message from the Guest Editor

Dear Colleagues,

Atomic force microscopy has been robustly used in life science for various purposes, such as nanoimaging of biological samples, measurement of molecular binding affinities, and dynamic biomolecular events. The advent of high-speed atomic force microscopy (HS-AFM) has provided a significant solution for scientists to visualize the dynamic behaviors of biomolecules and organelles in a real-time manner with high spatiotemporal resolution.

The application of HS-AFM is versatile; not only can it help to answer basic scientific questions, but it is also applicable to studying potential therapeutics that could inhibit target protein activities in certain diseases.

In this Special Issue, we invite you to contribute original research articles and reviews on all aspects related to the theme of the “Application of Atomic Force Microscopy in Molecular and Cell Biology”. We especially hope to highlight novel findings in the biophysical properties of biomolecules/organelles and interaction between biomolecules and biomolecule–organelles.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI