

Special Issue on
**Atomic Force Microscopy and High
 Resolution Scanning Electron Microscopy
 to Study Structure of Cell Organelles**

WILEY



CALL FOR PAPERS

The use of high resolution scanning electron microscopy and probe microscopes such as the atomic force microscope for the study of biological samples has centered mainly in isolated molecules or the surface of samples but not for in situ analysis of organelles. While the use of light and transmission electron microscopy have been the major instruments to study the cell structure, the use of those types of microscopes is relatively recent, especially for the in situ internal structure of organelles. The analysis of isolated molecules of biological interest, either under liquid or under dried conditions using high speed atomic force microscopy as well as the composition using combined AFM-Raman systems or real-time techniques under liquid phase, have been used lately. However, in situ approaches using scanning and atomic force microscopes are scarce to analyze cell structure. We invite investigators in the field of life sciences to submit high original research as well as review papers where the major topic includes the use of atomic force microscopy or high resolution scanning electron microscopy for the study of cell structure and composition at the nanoscale in several biological systems including unicellular parasites. The main goal of this special issue is to publish papers on the application of atomic force microscopy and high resolution scanning electron microscopy for the study of in situ cell structure of organelles at the nanoscale.

Potential topics include but are not limited to the following:

- ▶ Studies on internal and external organelle structure
- ▶ Analysis of nanometric structures *in situ*
- ▶ Quantitative analysis of organelles at the nanoscale
- ▶ In situ composition of cell organelles
- ▶ High speed atomic force microscopy studies of cell structures

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/scanning/semcb/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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