

Special Issue

Cutting-Edge Microscopy and Electron Microscopy Innovations in Molecular Biology Research

Message from the Guest Editor

Recent advancements in microscopy, including light microscopy, transmission electron microscopy, scanning electron microscopy, and confocal laser scanning microscopy, have revolutionized the study of molecular biology by enabling detailed visualization of biological structures at unprecedented magnifications. These techniques are essential for exploring both the physiological and pathological aspects of biological systems, offering profound insights into the molecular mechanisms underlying health and disease. Microscopy stands out as a unique tool for providing structural and ultrastructural information in living tissues, making it indispensable in biological research.

In this Special Issue, we invite original research articles, reviews, and experimental protocols that explore the integration of advanced microscopy and electron microscopy techniques with molecular biology. Topics include, but are not limited to, the application of microscopy for structural analysis of cellular systems, the combination of molecular biology and microscopy to uncover cellular dynamics, and emerging microscopy technologies with the potential to redefine the future of biological research.

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Message from the Editor-in-Chief

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