

Special Issue

Frontiers in the Actin Cytoskeleton

Message from the Guest Editor

The actin cytoskeleton is of fundamental importance for eukaryotic cell homeostasis. It contributes to developing and maintaining cell shape and tissue integrity and is crucial for cell migration, movement of organelles, vesicle trafficking, and the completion of cell division. Elaborate structures like the sarcomere, the inner ear cell stereocilia, and the brush border microvilli are built on actin filaments scaffolds. Dozens of actin-binding proteins orchestrate the dynamic remodeling of the actin cytoskeleton and integrate it with cell signaling machinery. Impressive advances have been made in recent years towards understanding the intricacies of the microfilament system's organization and function. This Special Issue of *IJMS* will cover a broad range of cutting-edge aspects related to the actin cytoskeleton, like the dynamics of remodelling, actin-binding proteins, biomechanics, visualisation techniques, actin-specific drugs, and diseases related to components of the microfilament system.

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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