

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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